

**Table S1:** The amino acid residues of the proteins that interacted with the organic molecules and the types of interaction involved

	Halogen bonds	Hydrogen bonds	Alkyl	$\pi$ -alkyl	$\pi$ -lone pair	Amide- $\pi$ -stacked	van der Waals	$\pi$ -cation	$\pi$ - $\pi$ -stacked	$\pi$ -sulfur	$\pi$ -sigma	$\pi$ -anion
AH-Dic	CYS 75	MET 103, ARG 116, MET 37, MET 33, ARG 88, CYS 28, GLN 57, PRO 27, CYS 109, CYS 61, ARG 52, PRO 114, GLY 72, GLN 71, SER 15, ARG 22, ASN 24, MET 103, LYS 99,	LEU 119, MET 103, MET 37, MET 33, ARG 88, MET 94, LEU 89, ILE 32, LEU 105, LEU 64, PRO 27, PRO 114, ALA 113, MET 103, LYS 99, PRO 106, LUE 78, LEU 119, LEU 10,	TYR 43, TYR 46								

AH-Nbb		ARG 112, ASN 65, GLU 66, ASN 69, ALA 113, GLN 71, CYS 75, ARG 116, CYS 117, GLN 107, ALA 113, GLN 115, GLN 71, GLU 68, GLU 41, ARG 112, ASP 47, ARG 52, ARG 100, GLN 42		ALA 113, MET 67, ILE 36, MET 94,	GLU 68	MET 67, PRO 114, GLN 115, GLN 96	GLN 115, GLN 97	ARG 52, ARG 100	TYR 46			GLU 41, ASP 47, GLU 39, ASP 44
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AH-Sls		SER 127, ARG 9, GLY 8, GLU 17, GLU 76, ARG 4, ARG 18, ASP 21, ASP 91, GLN 40, GLN 93, ASP 118	ARG 5, ARG 125, MET 3, ARG 9, MET 94, MET 37, MET 33, VAL 121									
AH-Sum		SER 104, ARG 49, GLY 124, GLY 123, ARG 92, CYS 60, CYS 28, PRO 27, ASN 24, ARG 59, ASP 62, SER 127, ARG 5, ASP 87, GLY 11	VAL 95, ARG 9, ARG 125	MET 67, PRO 27	SER 104	GLY 123						ASP 62, ASP 87







BE- Sum		LYS 75, MET 103, SER 110, ARG 26, GLN 78, GLN 27	ILE 111, ARG 66, LEU 65, MET 69	LEU 18, PRO 106, PRO 102, ARG 70, ARG 66, MET 25, ARG 22, MET 23	CYS 105, GLN 27							
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BN-Dic		THR 103, CYS 61, PRO 105, ALA 89, GLU 12, TRP 21, TRP 36, ASN 91, GLN 81, ARG 72, ILE 85	PRO 93, LEU 92, ILE 101, MET 98, VAL 60, LEU 52, ARG 84, ILE 88, ILE 55, VAL 95, PRO 38, ILE 22, ILE 85, ALA 89, ILE 88, VAL 95, PRO 38, ILE 88, VAL 95, ILE 88, ILE 85, VAL 71, ARG 72, ARG 84	TYR 53, TRP 21, HIS 14, TRP 21, TRP 36, TRP 36								
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BN- Nbb		CYS 49, ASN 50, LYS 65, GLY 102, THR 103, ASP 56, CYS 96, GLU 46, HIS 77, GLN 76, GLY 78, SER 82, LYS 65, THR 83, GLU 33, GLN 74, ARG 23, GLN 24, ASN 34, SER 29, GLY 102, GLN 100, GLN 100, GLN 100	LYS 69, PRO 79	ILE 101, ARG 23	ARG 72, VAL 71	GLY 78, SER 82				TYR 53	CYS 49, CYS 49, CYS 96,		ASP 56, GLU 46, GLU 33
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BN-Sls		SER 29, GLY 28, GLN 25, ASN 97, ARG 45, ARG 84, LEU 26, GLN 25, ASN 97	ARG 16, ALA 17, LEU 64, LYS 65, VAL 60, ILE 101, LEU 92, VAL 95, ARG 45, VAL 95, MET 98, VAL 60, LEU 52, LEU 64	PHE 31, PHE 106, TRP 21, PHE 31, TRP 36, PHE 31, TRP 21, PHE 31								
BN-Sum		CYS 61, LYS 65, GLN 57, ARG 72, SER 29, ASN 34, ARG 72, GLN 19, ARG 72, GLN 74, GLN 10, GLY 75, HIS 14, HIS 77, ARG 72	LYS 65, PRO 93, MET 98, ARG 23, LEU 26, ARG 23	LYS 65, TYR 86, PRO 30, LEU 26				ARG 72	TRP 36	MET 98, HIS 77		

[illegible]

HA-Nbb		ARG 43, ASN 57, GLU 73, CYS 11, GLU 19, ASN 22, MET 15, GLU 34, ARG 78, MET 53, CYS 51, LYS 30, MET 42		PRO 40, ARG 43, MET 20, ALA 18, MET 69, MET 15, MET 53, LEU 50, VAL 48, LYS 30	MET 42	ARG 78		ARG 35	HIS 23, HIS 47	MET 75, MET 79		GLU 73, GLU 19
HA-Sls		ARG 35, GLU 73, TYR 12, GLU 16, GLY 3, GLY 5, ARG 35, TYR 27, ASN 31, HIS 23, GLN 54, GLU 19	MET 29, ARG 78, MET 79, MET 75, MET 97, ALA 87, ILE 67, MET 75, LYS 48, MET 29, MET 26	TYR 12, HIS 23								

HA-Sum		ARG 43, GLN 54, MET 20, GLN 13, ARG 35, GLU 16, MET 103, ARG 4, MET 103, THR 7, LEU 71, ARG 80	LEU 50, LEU 32, MET 29, MET 29, ARG 6	LEU 50, LEU 32, LEU 28, MET 75, MET 26, TRP 76, ARG 6, TYR 2, LEU 71				ARG 80		CYS 51, MET 29, MET 15, MET 103, CYS 64, CYS 11, MET 103		ASP 81, GLU 16
MO-Dic		PRO 64, GLN 75, ARG 77, GLY 43, ARG 51, ILE 55, GLN 5, ARG 47, GLY 43, GLN 40, GLN 31, TYR 46, ALA 54, GLN 25, SER 22, HIS 44, ARG 51,	ARG 24, PRO 31, VAL 14, ARG 47, PRO 39, ARG 51, ALA 54, ARG 47, LEU 4, ARG 4, VAL 42, PRO 39, ALA 54, ILE 55, MET 61, PRO 21, VAL 48,	PHE 65, TYR 46, TRP 88, HIS 44								



MO-Nbb		MET 61, ARG 62, SER 50, GLN 40, ARG 79, ASN 57, ARG 51, ASN 57, CYS 8, GLN 40, ARG 47, GLN 41, SER 89, GLN 90, ARG 12		ARG 47, ILE 55, ALA 54, PRO 16	ILE 55	TYR 46, PRO 39		ARG 79, ARG 62, ARG 47				GLN 90
MO-Sls		GLN 90, GLN 5, GLN 40, PHE 65	ARG 87, ARG 83, LEU 4, ILE 55, ILE 55, LEU 4, PRO 39	TRP 88, TRP 88, TRP 88, TYR 46, PHE 65							TRP 88	
MO-Sum		ASN 57, ARG 47, ARG 87, ARG 83, GLN 33, GLN 90, ARG 77, ARG 24	ALA 54, ARG 83, PRO 64	ARG 47, TRP 88, PRO 1, VAL 84, PRO 64				ARG 79, ARG 83, ARG 87, ARG 77	TYR 46	CYS 8		

**Table S2:** Prominent residues for MO-pollutants interactions based on decomposed binding energies (kcal/mol)

MO-Dic	MO-Nbb	MO-Sls	MO-Sum
TRP 88 (-2.884 ± 1.331)	PHE 65 (-5.072 ± 2.508)	TRP 88 (-3.605 ± 1.666)	ARG 83 (-5.160 ± 1.928)
ILE 55 (-2.031 ± 1.173)	ARG 62 (-3.571 ± 1.776)	ILE 55 (-2.933 ± 1.275)	ARG 24 (-3.375 ± 2.553)
PRO 21 (-1.981 ± 1.341)	TYR 46 (-3.137 ± 0.865)	TYR 46 (-2.713 ± 0.860)	TYR 46 (-2.056 ± 1.576)
LEU 4 (-1.727 ± 1.286)	ARG 47 (-2.892 ± 1.553)	ARG 47 (-2.567 ± 1.718)	TRP 88 (-1.993 ± 1.948)
ARG 51 (-1.586 ± 0.987)	ARG 12(-2.787 ± 2.256)	LEU 4 (-2.298 ± 1.323)	ARG 51 (-1.825 ± 2.770)
VAL 48 (-1.414 ± 0.689)	GLN 59 (-2.628 ± 1.392)	VAL 84(-1.846 ± 0.906)	GLN 33 (-1.352 ± 0.872)
GLN 25 (-1.329 ± 1.013)	ASN 13 (-2.522 ± 1.462)	PHE 65 (-1.791 ± 1.446)	ARG 79 (-1.211 ± 0.762)
PHE 17 (-1.214 ± 1.203)	THR 74 (-2.357 ± 1.865)	PRO 39 (-1.726 ± 1.295)	ILE 55 (-1.039 ± 1.202)
PRO 64 (-1.138 ± 1.412)	PRO 39 (-2.337 ± 0.938)	ARG 87 (-1.592 ± 1.485)	
ARG 24 (-1.094 ± 1.022)	GLN 73 (-2.019 ± 1.892)	ARG 51 (-1.532 ± 1.778)	
	PRO 16 (-1.966 ± 0.602)	GLY 43 (-1.428 ± 0.656)	
	MET 61(-1.897 ± 0.849)	VAL 42 (-1.391 ± 0.705)	
	ARG 69 (-1.868 ± 1.949)	ARG 79 (-1.291 ± 2.183)	
	GLN 75 (-1.825 ± 1.360)	GLN 40 (-1.280 ± 1.305)	
	ARG 51 (-1.555 ± 0.966)	ARG 83 (-1.219 ± 1.608)	
	ALA 54 (-1.507 ± 0.564)		
	ILE 55 (-1.468 ± 1.142)		
	PRO 60 (-1.281 ± 0.623)		
	GLN 40 (-1.226 ± 1.385)		
	GLN 76 (-1.089 ± 1.027)		

**Table S3:** Prominent residues for AH-pollutants interactions based on decomposed binding energies (kcal/mol)

AH-Dic	AH-Nbb	AH-Sls	AH-Sum
MET 33 (-2.156 ± 1.078)	GLU 68 (-6.601 ± 4.192)	VAL 121 (-3.153 ± 1.068)	ARG 59 (-2.735 ± 1.871)
ILE 36 (-1.475 ± 0.749)	ASP 47 (-5.626 ± 2.262)	ARG 125 (-2.815 ± 2.507)	PHE 111 (-2.444 ± 1.630)
MET 37 (-1.327 ± 0.850)	GLN 71 (-5.208 ± 2.106)	ASP 21 (-2.811 ± 2.829)	ASP 62 (-2.008 ± 1.502)
ARG 88 (-1.247 ± 0.787)	ASN 69 (-3.957 ± 1.860)	PRO 2 (-1.633 ± 1.880)	LYS 99 (-1.646 ± 1.419)
MET 103 (-1.162 ± 1.092)	GLU 41 (-3.822 ± 1.702)	MET 3 (-1.431 ± 1.505)	ASN 110 (-1.628 ± 1.335)
LEU 119 (-1.121 ± 1.197)	TYR 46 (-3.159 ± 1.777)	MET 33 (-1.347 ± 1.050)	ARG 92 (-1.496 ± 2.121)
LEU 102 (-1.060 ± 1.040)	ARG 112 (-3.159 ± 1.222)	MET 94 (-1.247 ± 0.977)	SER 127 (-1.284 ± 1.771)
MET 94 (-1.004 ± 0.503)	PRO 114 (-2.955 ± 0.620)	MET 37 (-1.209 ± 0.746)	GLY 123 (-1.196 ± 0.635)
	ARG 52 (-2.942 ± 1.872)	ASP 118 (-1.194 ± 1.672)	GLN 96 (-1.146 ± 1.188)
	ARG 116 (-2.562 ± 1.707)	ARG 4 (-1.186 ± 1.622)	TYR 46 (-1.090 ± 1.733)
	ILE 48 (-2.257 ± 1.311)	ILE 36 (-1.178 ± 0.782)	ARG 112 (-1.037 ± 0.970)
	TYR 43 (-1.940 ± 1.170)	TYR 46 (-1.076 ± 1.528)	
	MET 67 (-1.908 ± 1.363)		
	ARG 49 (-1.876 ± 1.680)		
	MET 37 (-1.582 ± 0.493)		
	MET 94 (-1.341 ± 0.613)		
	THR 70 (-1.259 ± 1.585)		
	SER 53 (-1.236 ± 1.224)		

**Table S4:** Prominent residues for BE-pollutants interactions based on decomposed binding energies (kcal/mol)

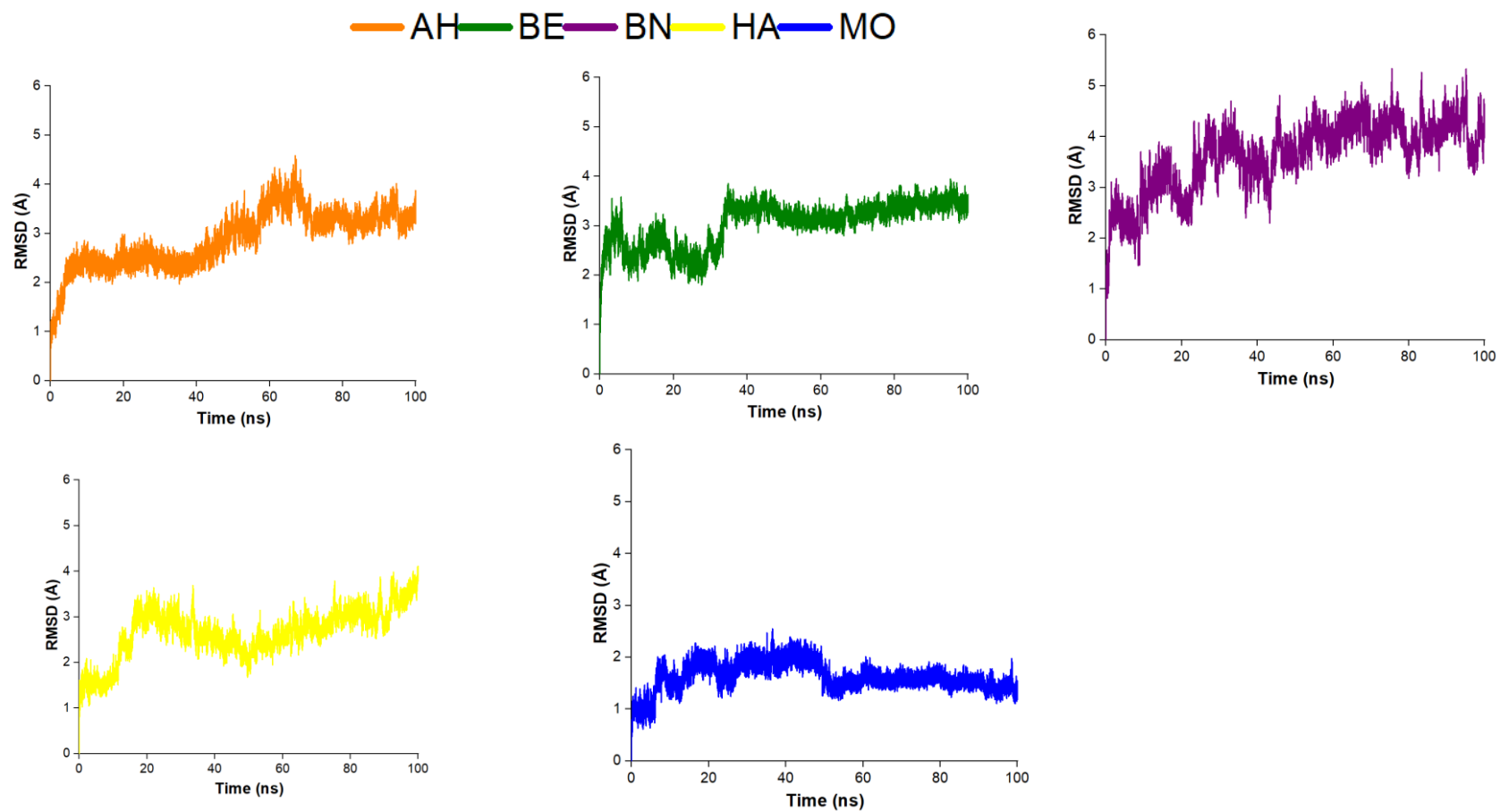
BE-Dic	BE-Nbb	BE-Sls	BE-Sum
MET 88 (-2.499 ± 1.115)	GLU 76 (-4.982 ± 4.353)	GLU 92 (-4.134 ± 4.377)	ARG 14 (-2.782 ± 3.154)
MET 69 (-2.266 ± 1.627)	GLU 30 (-4.755 ± 1.638)	LEU 90 (-2.339 ± 1.135)	ARG 26 (-2.491 ± 2.301)
MET 84 (-1.914 ± 0.819)	ARG 26 (-4.128 ± 1.662)	ARG 89 (-2.033 ± 1.672)	GLN 27 (-1.370 ± 1.343)
ILE 94 (-1.589 ± 1.420)	GLU 82 (-2.027 ± 3.580)	ILE 111 (-2.017 ± 2.472)	MET 23 (-1.171 ± 0.984)
LEU 90 (-1.516 ± 0.751)	GLN 74 (-1.885 ± 2.302)	PHE 114 (-1.664 ± 1.850)	
GLN 73 (-1.400 ± 0.889)	MET 29 (-1.586 ± 0.496)	MET 84 (-1.363 ± 1.133)	
MET 42 (-1.268 ± 1.035)	GLN 78 (-1.483 ± 1.396)	PRO 79 (-1.238 ± 1.562)	
MET 72 (-1.256 ± 0.725)	LEU 90 (-1.469 ± 0.654)	MET 87 (-1.189 ± 0.805)	
ALA 91 (-1.209 ± 0.904)	ALA 112 (-1.372 ± 0.966)	MET 37 (-1.175 ± 0.879)	
LEU 65 (-1.176 ± 1.324)	PHE 114 (-1.309 ± 1.782)	ALA 112 (-1.167 ± 1.489)	
MET 77 (-1.167 ± 0.990)	ILE 111 (-1.262 ± 0.768)	MET 29 (-1.090 ± 0.727)	
MET 87 (-1.091 ± 0.690)	ARG 40 (-1.223 ± 1.541)	MET 25 (-1.084 ± 0.564)	
MET 23 (-1.058 ± 0.926)	MET 77 (-1.216 ± 0.709)		
MET 46 (-1.037 ± 0.772)	ARG 80 (-1.215 ± 1.584)		
	MET 23 (-1.123 ± 0.803)		
	MET 37 (-1.080 ± 0.709)		

**Table S5:** Prominent residues for BN-pollutants interactions based on decomposed binding energies (kcal/mol)

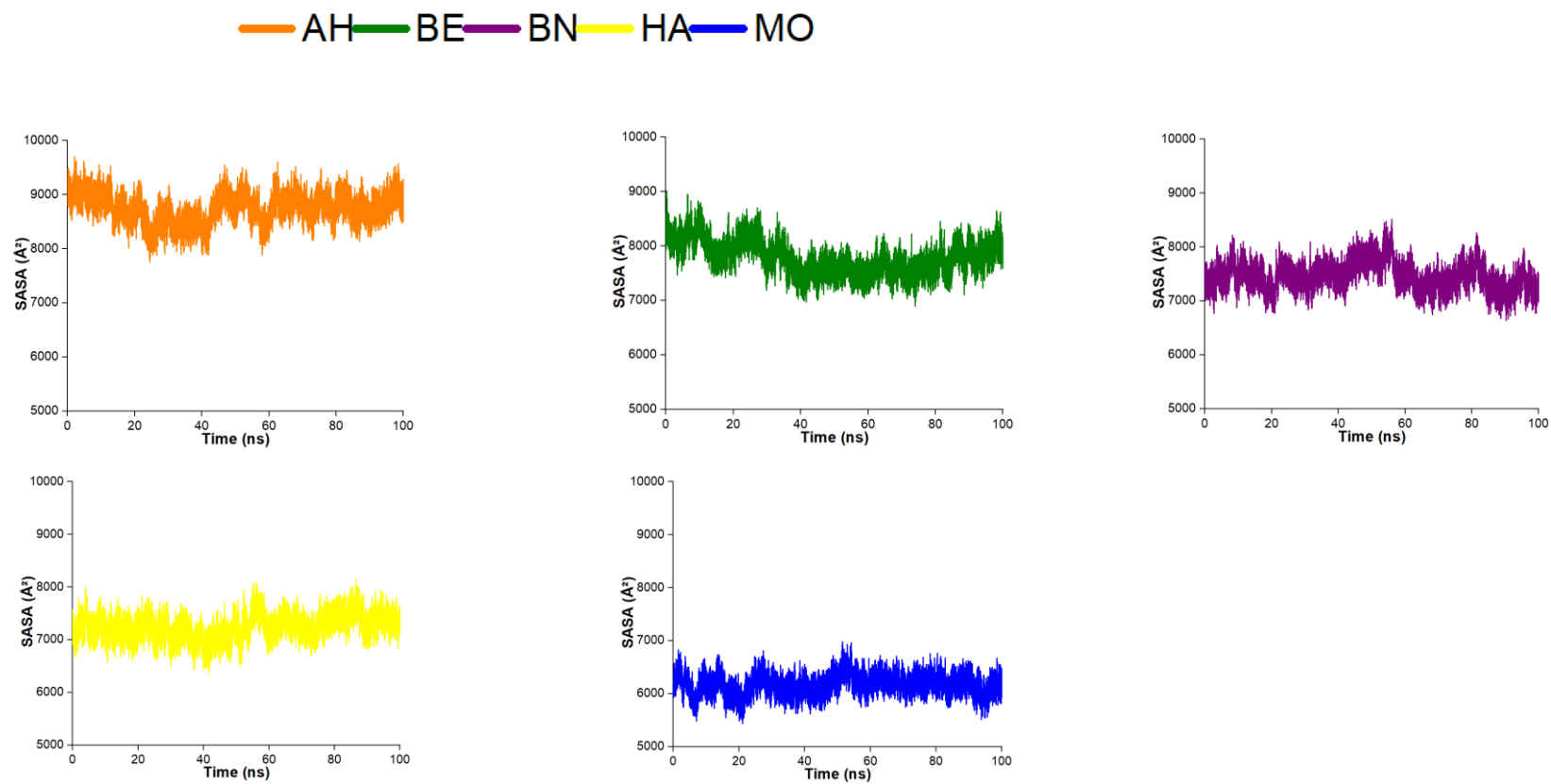
BN-Dic	BN-Nbb	BN-Sls	BN-Sum
ILE 88 (-3.292 ± 2.045)	GLU 46 (-4.948 ± 1.384)	TRP 36 (-3.429 ± 1.811)	TRP 36 (-4.011 ± 1.479)
LEU 26 (-2.260 ± 1.275)	GLU 33 (-4.607 ± 3.142)	ILE 101 (-2.613 ± 1.576)	ARG 72 (-2.748 ± 3.495)
VAL 95 (-2.172 ± 1.210)	ASP 56 (-3.904 ± 1.215)	PHE 106 (-2.606 ± 1.549)	HIS 14 (-2.307 ± 0.945)
ILE 85 (-1.952 ± 0.983)	TYR 53 (-3.900 ± 0.846)	PHE 31 (-2.345 ± 1.921)	PHE 31 (-2.026 ± 1.483)
TRP 36 (-1.689 ± 1.422)	ILE 101 (-3.857 ± 1.315)	ILE 88 (-2.141 ± 0.838)	GLN 74 (-1.898 ± 1.534)
ARG 72 (-1.532 ± 0.963)	ARG 23 (-3.504 ± 1.338)	MET 98 (-1.919 ± 1.278)	GLN 10 (-1.644 ± 1.672)
TRP 21 (-1.486 ± 0.821)	ILE 109 (-3.178 ± 3.597)	VAL 95 (-1.909 ± 1.643)	PRO 30 (-1.458 ± 1.045)
ILE 22 (-1.455 ± 1.052)	GLY 102 (-2.940 ± 1.091)	ARG 84 (-1.892 ± 1.586)	ARG 23 (-1.351 ± 2.116)
LEU 92 (-1.439 ± 1.077)	GLN 100 (-2.747 ± 2.631)	GLN 25 (-1.730 ± 1.819)	LEU 26 (-1.265 ± 1.128)
GLN 25 (-1.396 ± 1.149)	THR 103 (-2.263 ± 1.587)	VAL 58 (-1.677 ± 1.059)	GLY 75 (-1.245 ± 1.203)
LEU 52 (-1.316 ± 0.450)	VAL 73 (-1.959 ± 1.182)	VAL 60 (-1.640 ± 1.056)	ARG 16 (-1.093 ± 1.855)
MET 98 (-1.298 ± 0.454)	PRO 79 (-1.757 ± 1.223)	CYS 61 (-1.477 ± 0.934)	LYS 65 (-1.073 ± 1.240)
ARG 84 (-1.202 ± 1.078)	VAL 71 (-1.738 ± 1.411)	ARG 45 (-1.349 ± 1.652)	GLN 3 (-1.027 ± 1.435)
VAL 71 (-1.095 ± 0.690)	GLN 1 (1.598 ± 1.603)	GLN 87 (-1.340 ± 0.921)	
PRO 93 (-1.059 ± 0.589)	CYS 49 (-1.349 ± 0.568)	TYR 53 (-1.307 ± 1.405)	
GLN 20 (-1.021 ± 0.895)	ARG 72 (-1.308 ± 1.142)	PRO 93 (-1.280 ± 0.792)	
VAL 60 (-1.018 ± 0.363)	GLN 74 (-1.292 ± 1.079)	LEU 92 (-1.230 ± 0.972)	
GLN 57 (-1.006 ± 0.528)	LEU 26 (-1.234 ± 1.093)	ASN 91 (-1.116 ± 0.825)	
	PRO 62 (-1.229 ± 1.006)	LEU 26 (-1.099 ± 0.821)	
	PRO 42 (-1.154 ± 0.609)	GLN 20 (-1.096 ± 0.845)	
	LYS 99 (-1.118 ± 1.016)	CYS 104 (-1.094 ± 0.824)	
	PRO 30 (-1.061 ± 0.611)	TRP 21 (-1.087 ± 0.584)	
		LEU 64 (-1.046 ± 0.623)	
		CYS 49 (-1.028 ± 0.932)	

**Table S6:** Prominent residues for HA-pollutants interactions based on decomposed binding energies (kcal/mol)

HA-Dic	HA-Nbb	HA-Sls	HA-Sum
MET 86 (-3.034 ± 1.226)	GLU 19 (-5.476 ± 2.033)	MET 75 (-2.174 ± 1.455)	TYR 2 (-2.098 ± 1.277)
TYR 27 (-2.288 ± 1.084)	GLU 73 (-4.671 ± 1.184)	ARG 35 (-1.960 ± 2.360)	TYR 12 (-1.929 ± 1.809)
LEU 28 (-2.262 ± 1.419)	ASN 31 (-2.244 ± 1.839)	GLU 73 (-1.660 ± 2.664)	ASN 72 (-1.826 ± 1.510)
LEU 90 (-2.169 ± 0.969)	ARG 4 (-2.038 ± 1.643)	TYR 12 (-1.614 ± 1.665)	LEU 71 (-1.399 ± 0.971)
LEU 55 (-2.093 ± 1.243)	LEU 32 (-2.009 ± 0.723)	MET 86 (-1.481 ± 0.428)	LYS 61 (-1.387 ± 1.033)
CYS 24 (-1.951 ± 1.007)	ARG 43 (-1.881 ± 1.765)	MET 103 (-1.463 ± 1.555)	MET 75 (-1.370 ± 1.430)
CYS 51 (-1.767 ± 0.981)	MET 15 (-1.729 ± 0.690)	GLU 16 (-1.377 ± 1.955)	GLN 102 (-1.317 ± 1.445)
MET 68 (-1.731 ± 0.778)	LEU 50 (-1.670 ± 0.999)	MET 26 (-1.280 ± 1.067)	ARG 80 (-1.097 ± 1.983)
LYS 48 (-1.631 ± 1.011)	GLN 54 (-1.608 ± 1.234)	CYS 64 (-1.262 ± 0.593)	MET 103 (-1.015 ± 0.975)
CYS 52 (-1.623 ± 0.812)	ARG 78 (-1.607 ± 1.654)	PRO 74 (-1.213 ± 1.030)	
CYS 64 (-1.537 ± 0.690)	MET 69 (-1.572 ± 0.554)	MET 68 (-1.163 ± 0.615)	
ILE 67 (-1.521 ± 0.969)	TYR 12 (-1.534 ± 0.662)	LEU 90 (-1.158 ± 0.565)	
HIS 47 (-1.474 ± 1.101)	MET 53 (-1.435 ± 0.841)	TYR 27 (-1.104 ± 0.845)	
HIS 23 (-1.260 ± 0.837)	MET 75 (-1.298 ± 0.878)	ILE 67 (-1.078 ± 0.607)	
LEU 50 (-1.236 ± 0.864)	ASN 57 (-1.273 ± 1.305)		
MET 26 (-1.091 ± 0.964)	GLN 82 (-1.176 ± 1.132)		
VAL 83 (-1.068 ± 0.760)	GLU 34 (-1.118 ± 1.968)		
	MET 42 (-1.083 ± 1.411)		
	MET 20 (-1.033 ± 0.606)		
	PRO 74 (-1.025 ± 0.592)		

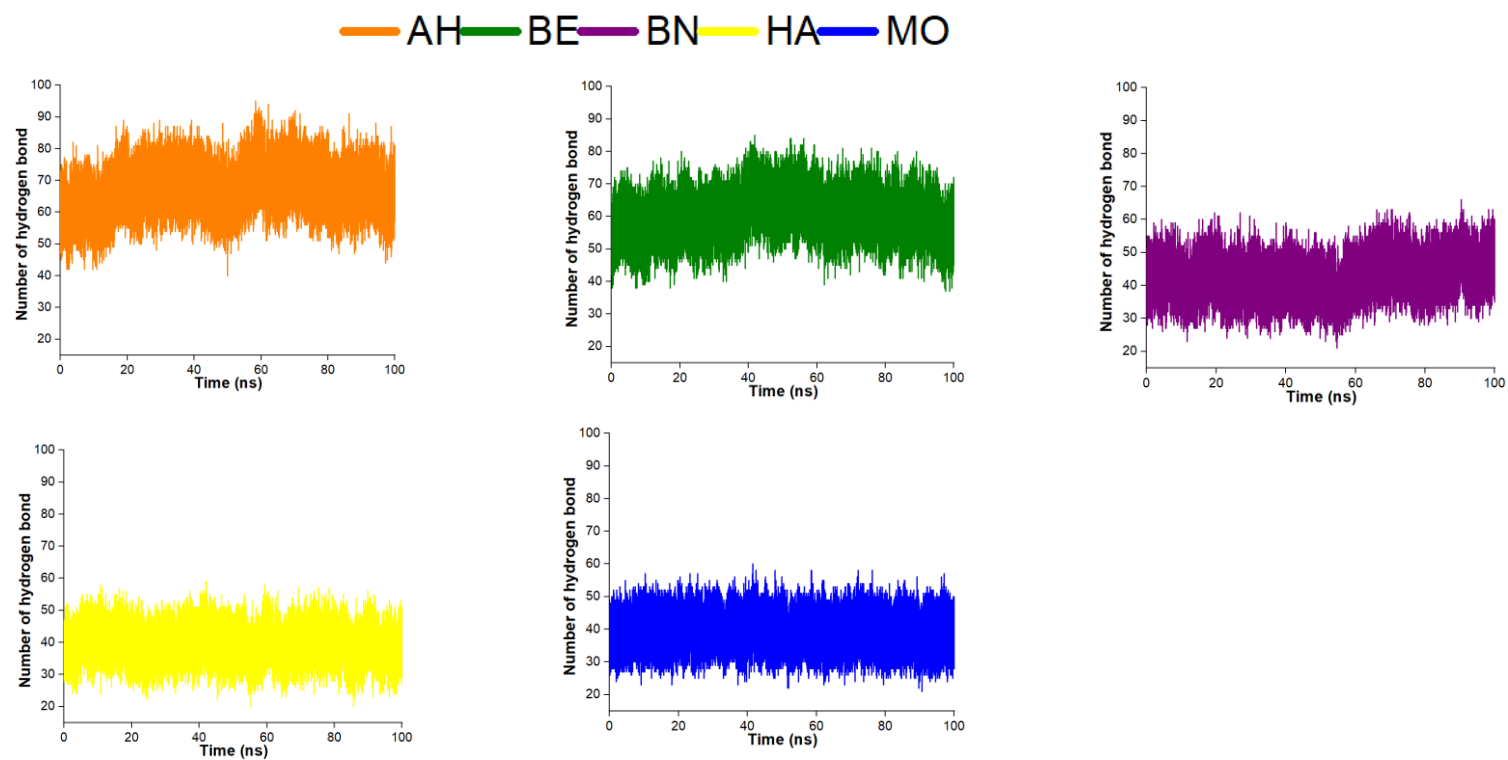


**Figure S1(a):** The stability of the proteins without the ligands at 100 ns simulation time derived from the plot of RMSD. Individual plots are presented.

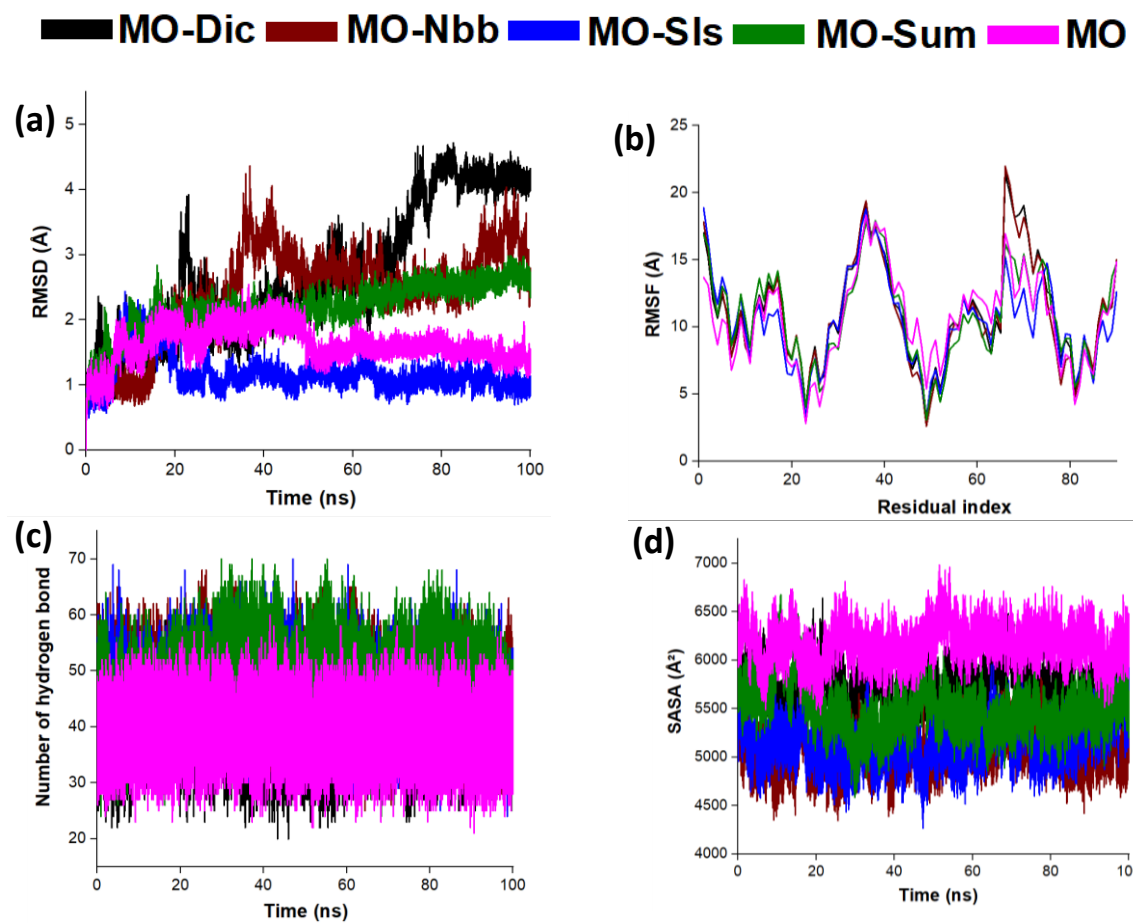


**Figure S1(b):** The stability of the proteins without the ligands at 100 ns simulation time derived from the plot of SASA. Individual plots are presented.

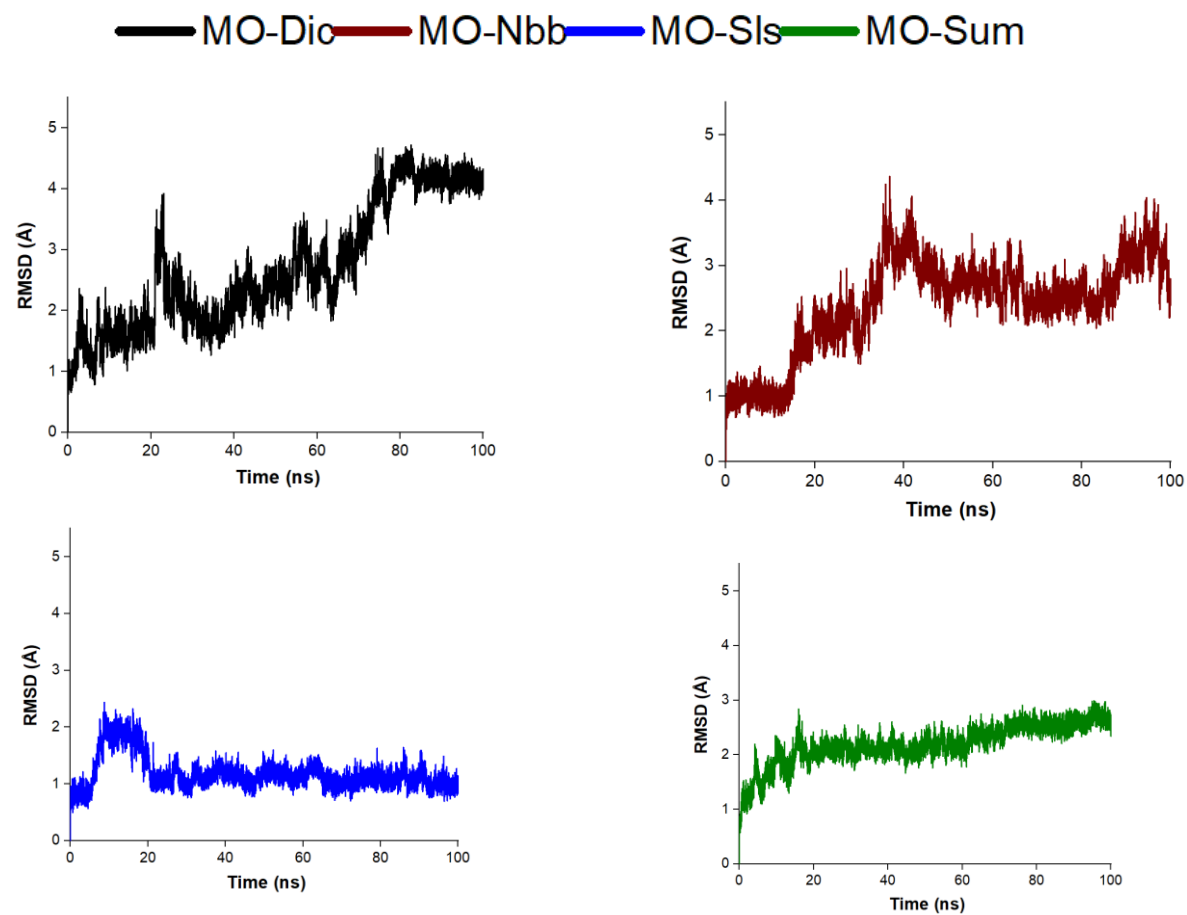




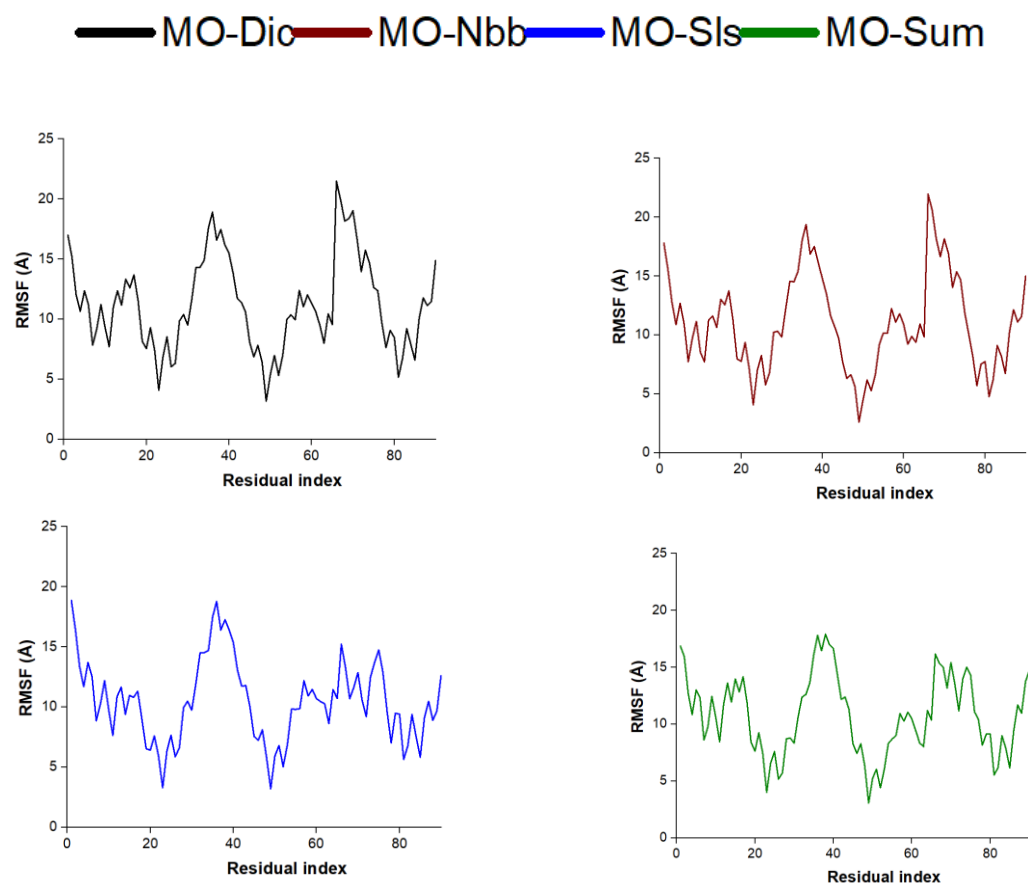
**Figure S1(c):** The stability of the proteins without the ligands at 100 ns simulation time derived from the plot of number of hydrogen bond. Individual plots are presented.



**Figure S2:** The stability of the MO protein without the ligands and the various complexes formed at 100 ns simulation time derived from the plot of (a) RMSD (Å), (b) RMSF (Å), (c) Number of hydrogen bond and (d) SASA (Å<sup>2</sup>)

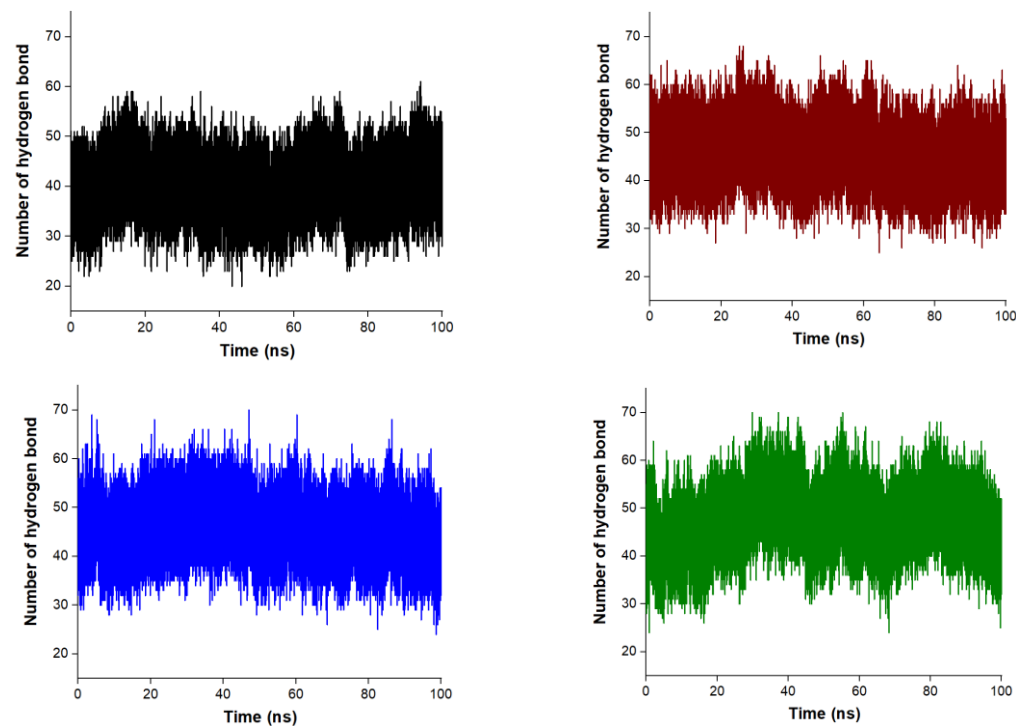


**Figure S3(a):** The stability of the various MO-pollutant complexes at 100 ns simulation time derived from the plot of RMSD

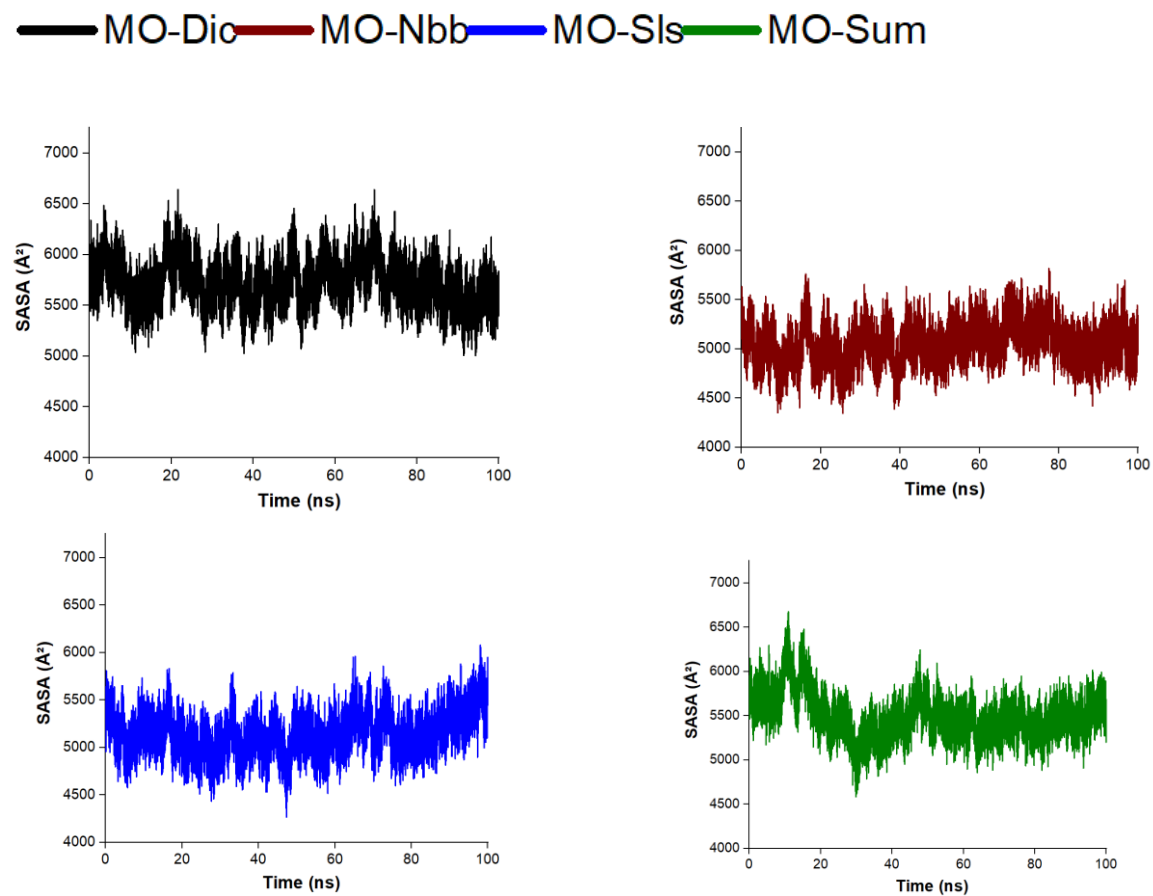


**Figure S3(b):** The stability of the various MO-pollutant complexes at 100 ns simulation time derived from the plot of RMSF

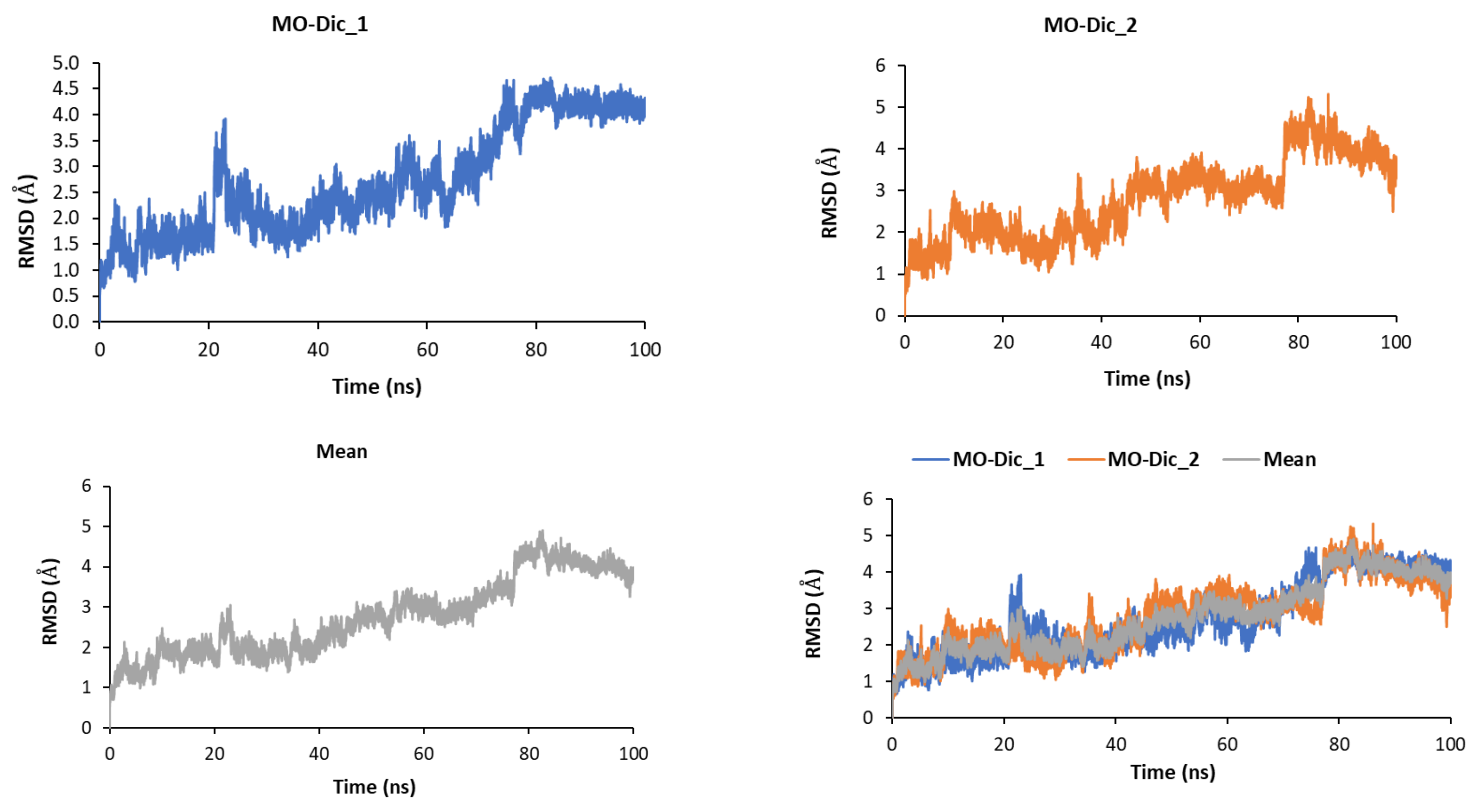
— MO-Dic — MO-Nbb — MO-Sls — MO-Sum



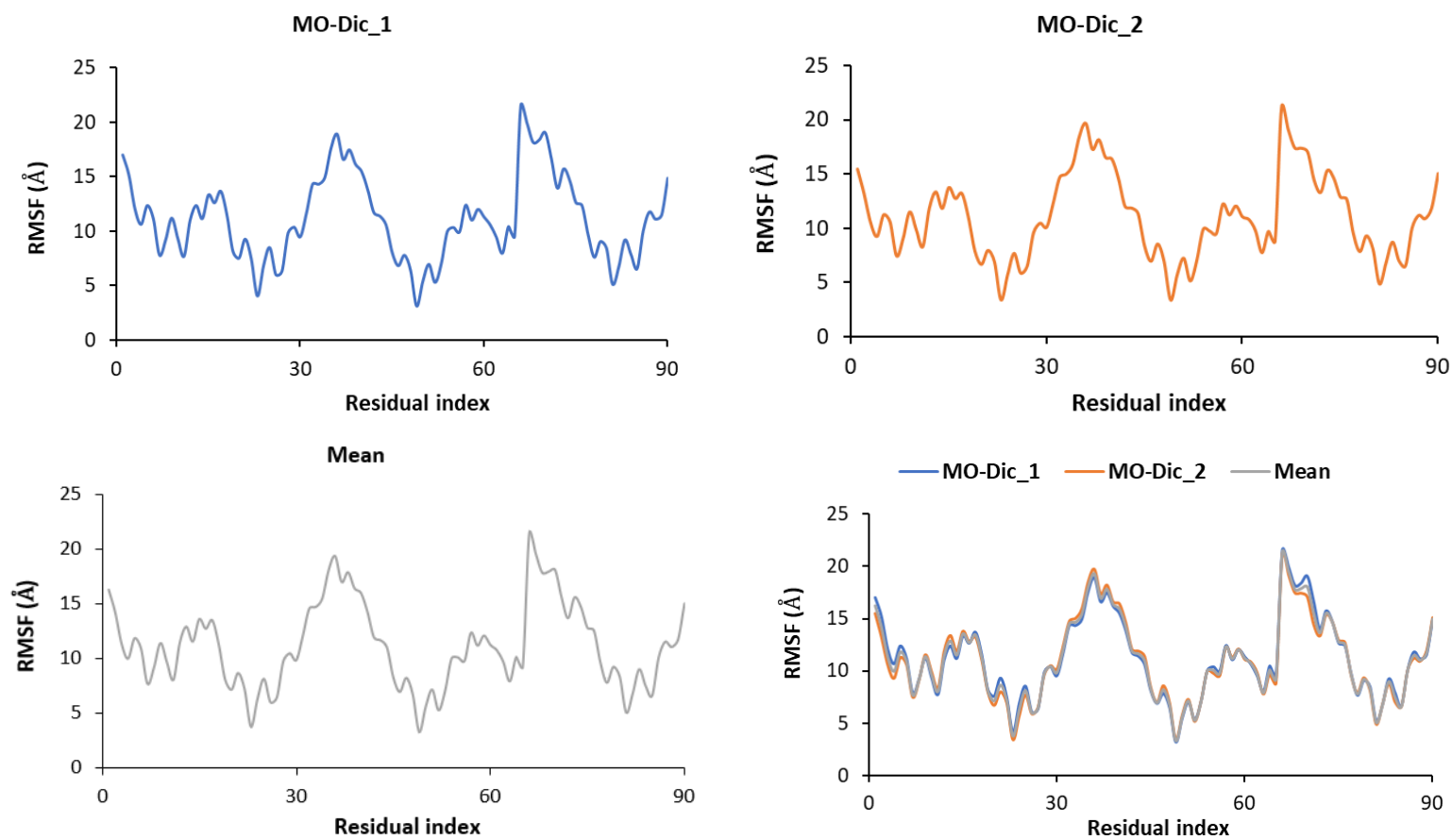
**Figure S3(c):** The stability of the various MO-pollutant complexes at 100 ns simulation time derived from the plot of number of hydrogen bond



**Figure S3(d):** The stability of the various MO-pollutant complexes at 100 ns simulation time derived from the plot of SASA

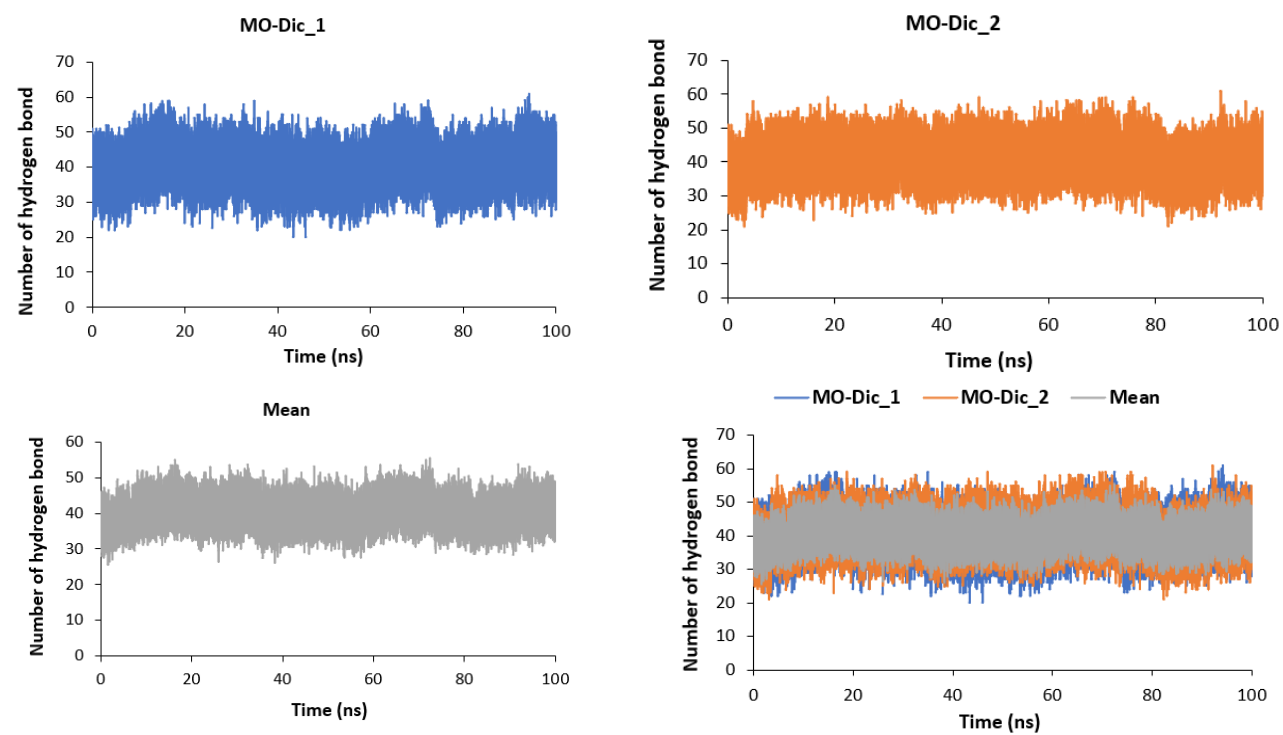


**Figure S4(a):** The RMSD of MO-Dic complex run in duplicate. MO-Dic\_1 as first run, MO-Dic\_2 as second run and mean as the average of the two runs.

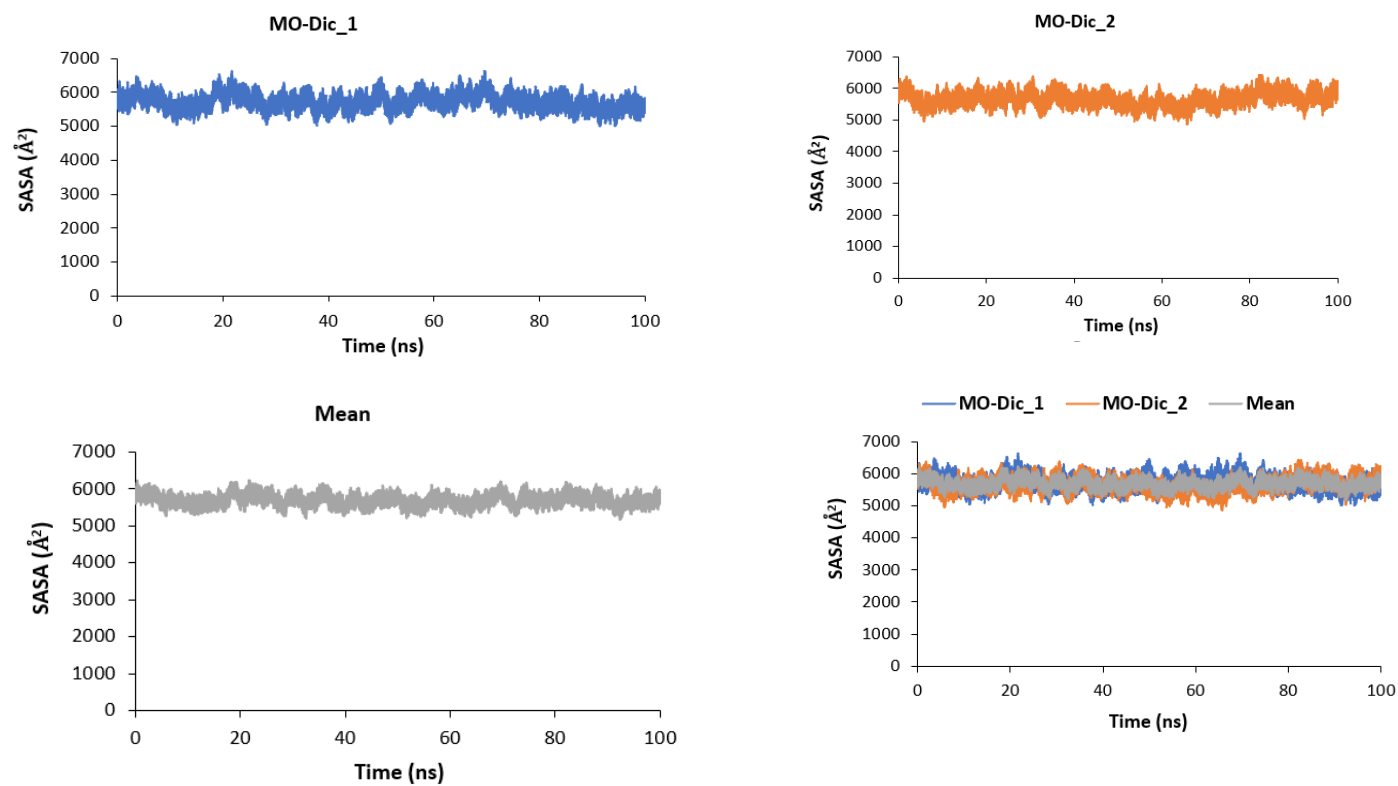


**Figure S4(b):** The RMSF of MO-Dic complex run in duplicate. MO-Dic\_1 as first run, MO-Dic\_2 as second run and mean as the average of the two runs.

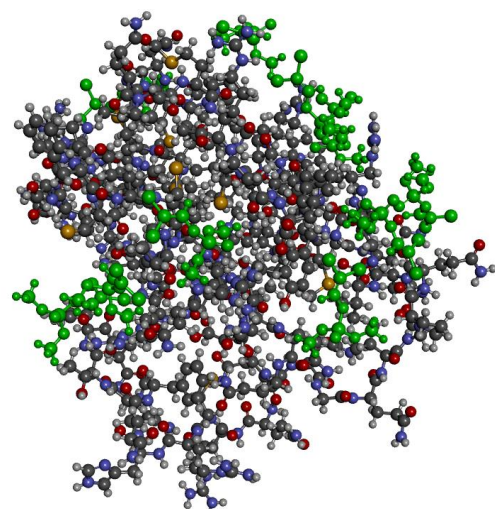




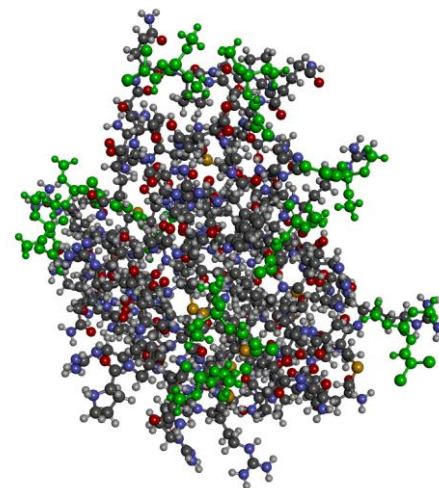
**Figure S4(c):** The plots of number of hydrogen bond of MO-Dic complex run in duplicate. MO-Dic\_1 as first run, MO-Dic\_2 as second run and mean as the average of the two runs.



**Figure S4(d):** The plots of SASA for MO-Dic complex run in duplicate. MO-Dic\_1 as first run, MO-Dic\_2 as second run and mean as the average of the two runs.



**MO-Dic\_1**

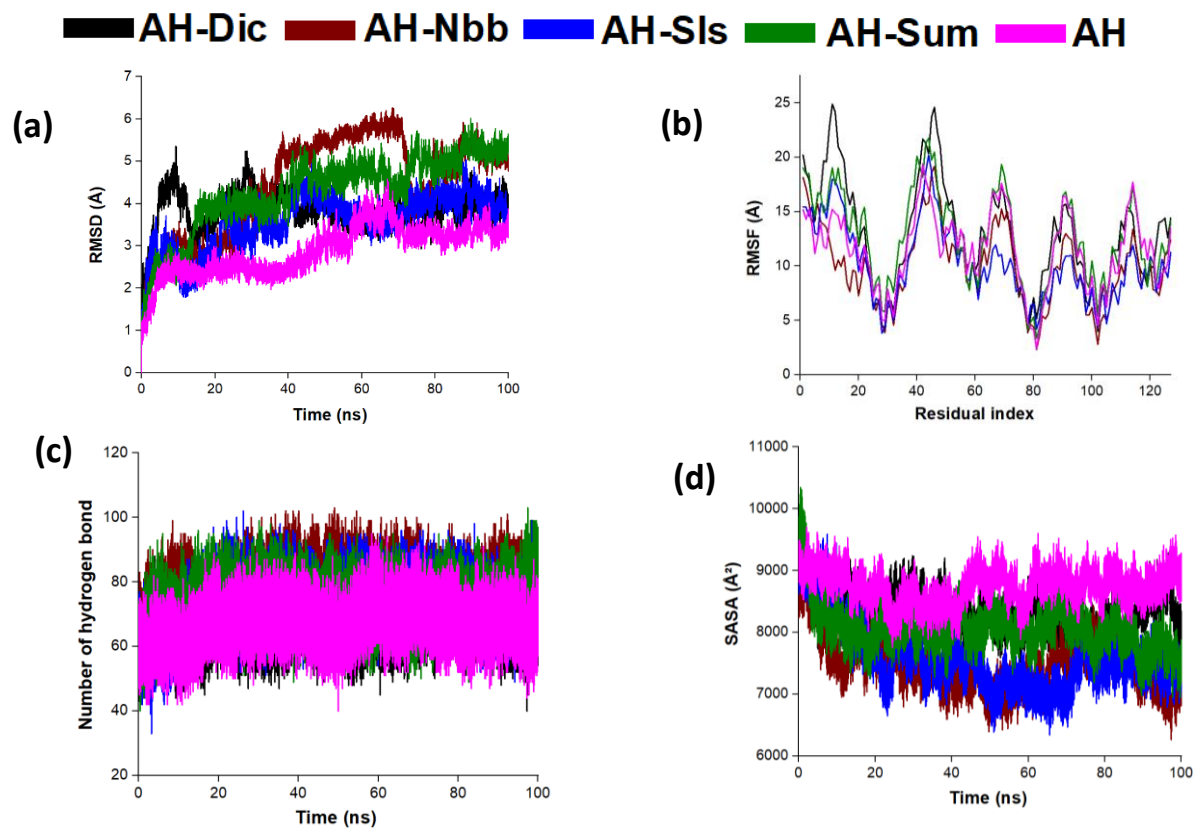


**MO-Dic\_2**

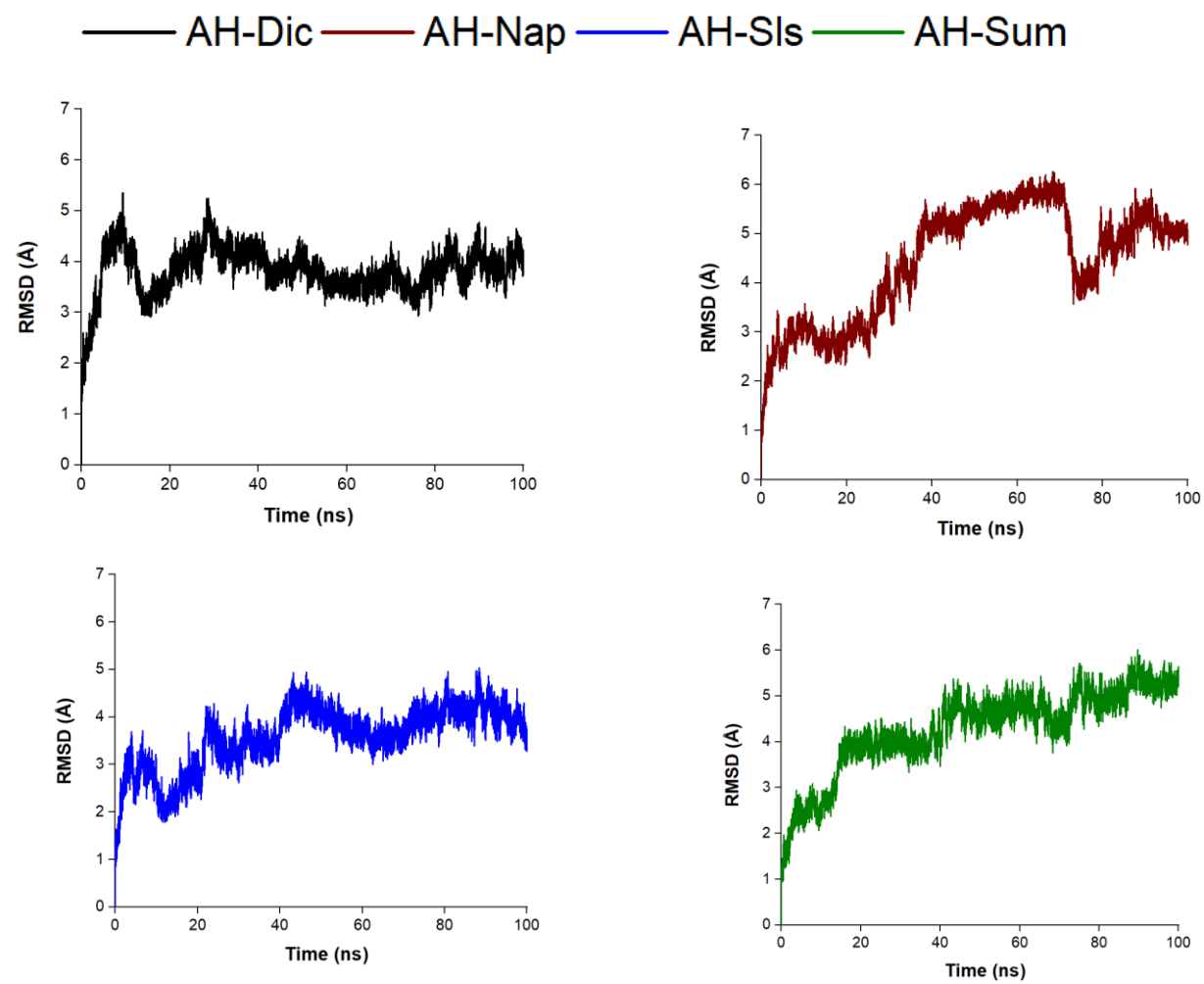
**Figure S5:** The representative snapshots of the clustering of the Dic pollutant around MO protein with 100% coagulation. MO-Dic\_1 (binding energy of -85.60 kcal/mol) and MO-Dic\_2 (binding energy of -88.68 kcal/mol) represent first and second run respectively.

**Table S7:** Prominent residues for MO-pollutants interactions based on decomposed binding energies (kcal/mol)

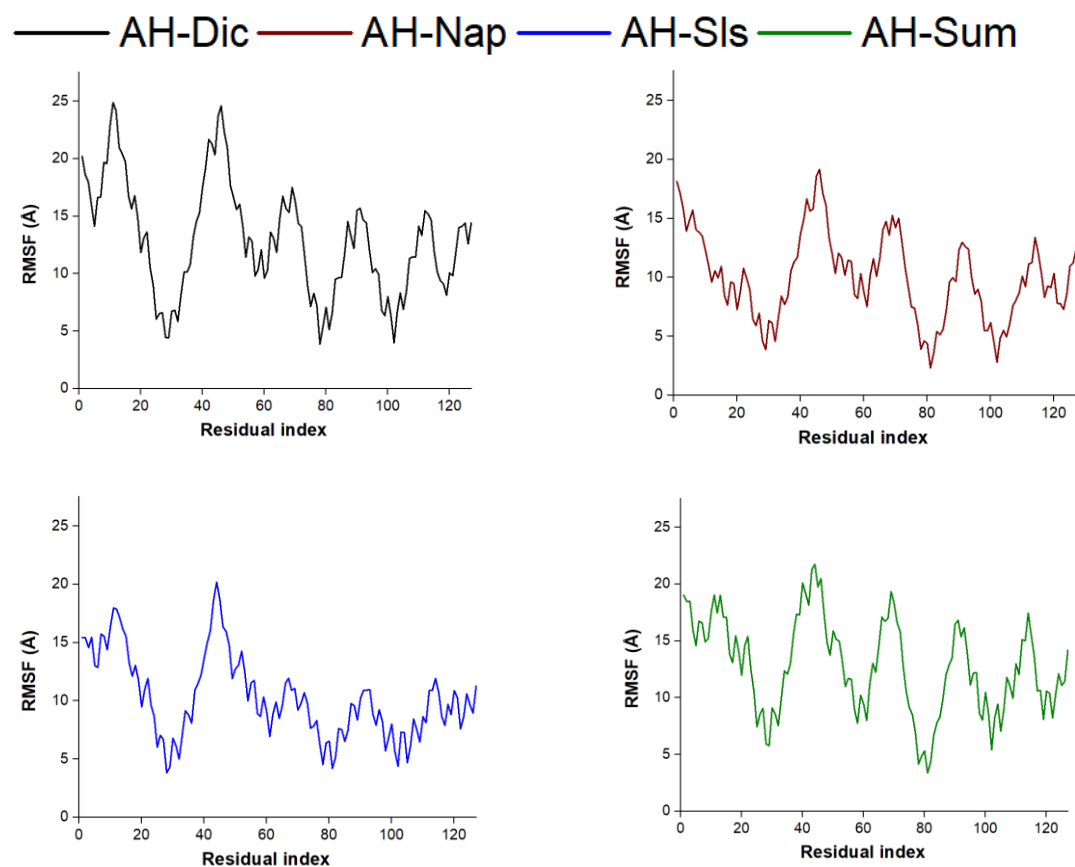
MO-Dic_2	
TRP	88 (-2.967 +/- 0.984)
LEU	4 (-1.985 +/- 1.254)
VAL	48 (-1.600 +/- 0.551)
ILE	55 (-1.583 +/- 0.790)
ARG	51 (-1.512 +/- 0.784)
GLN	25 (-1.298 +/- 0.777)
PHE	17 (-1.039 +/- 1.218)
PRO	21 (-0.810 +/- 0.930)
PRO	64 (-0.602 +/- 0.866)
ARG	24 (-0.514 +/- 0.875)



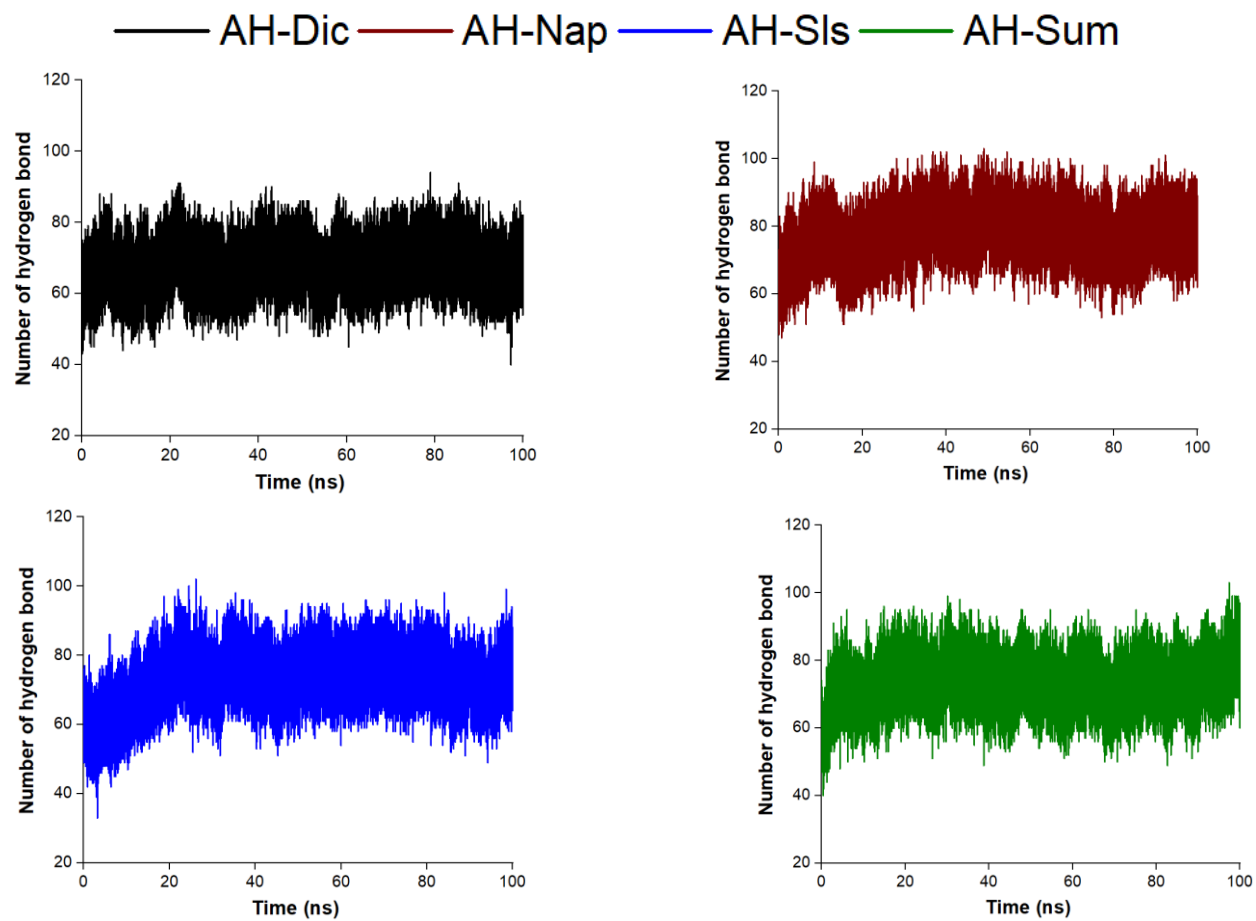
**Figure S6:** The stability of the AH protein without the ligands and the various complexes formed at 100 ns simulation time derived from the plot of (a) RMSD (Å), (b) RMSF (Å), (c) Number of hydrogen bond and (d) SASA (Å<sup>2</sup>)



**Figure S7(a):** The stability of the various AH-pollutant complexes at 100 ns simulation time derived from the plot of RMSD

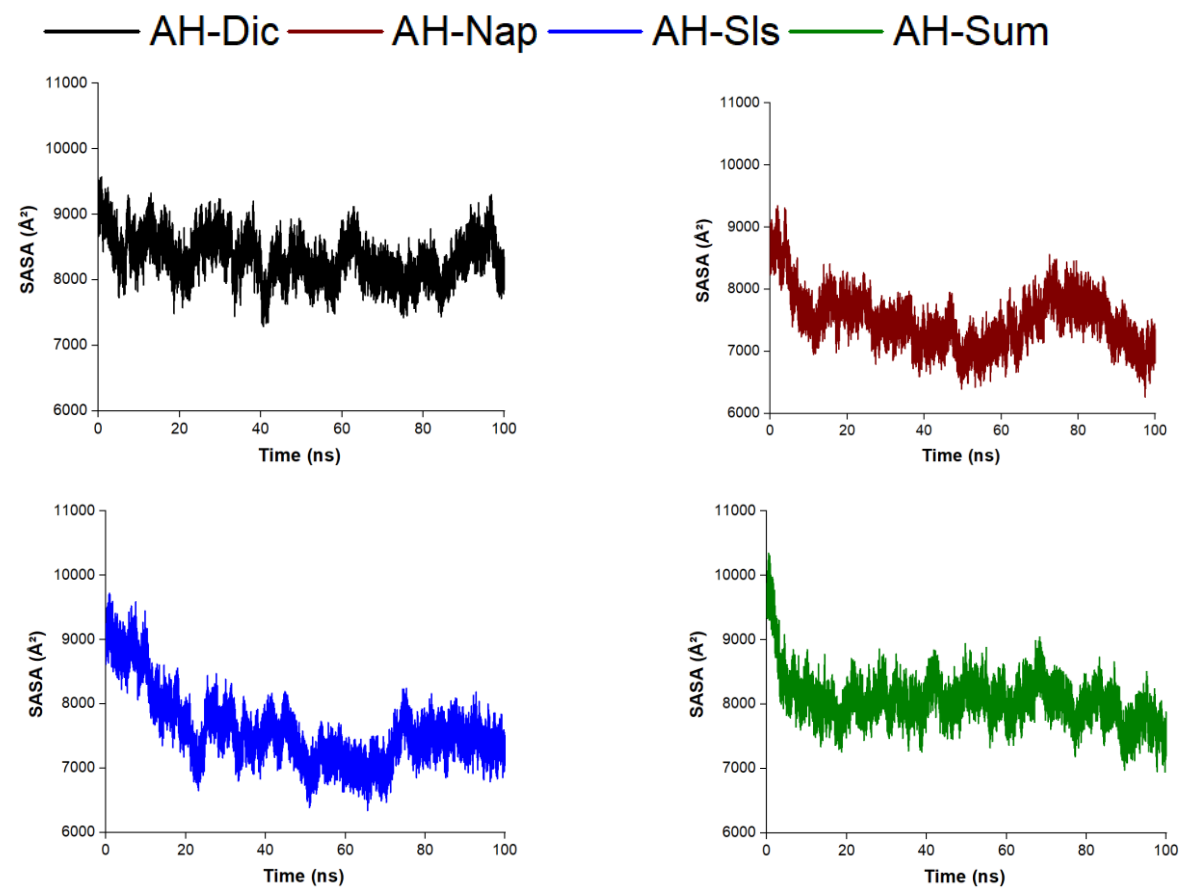


**Figure S7(b):** The stability of the various AH-pollutant complexes at 100 ns simulation time derived from the plot of RMSF

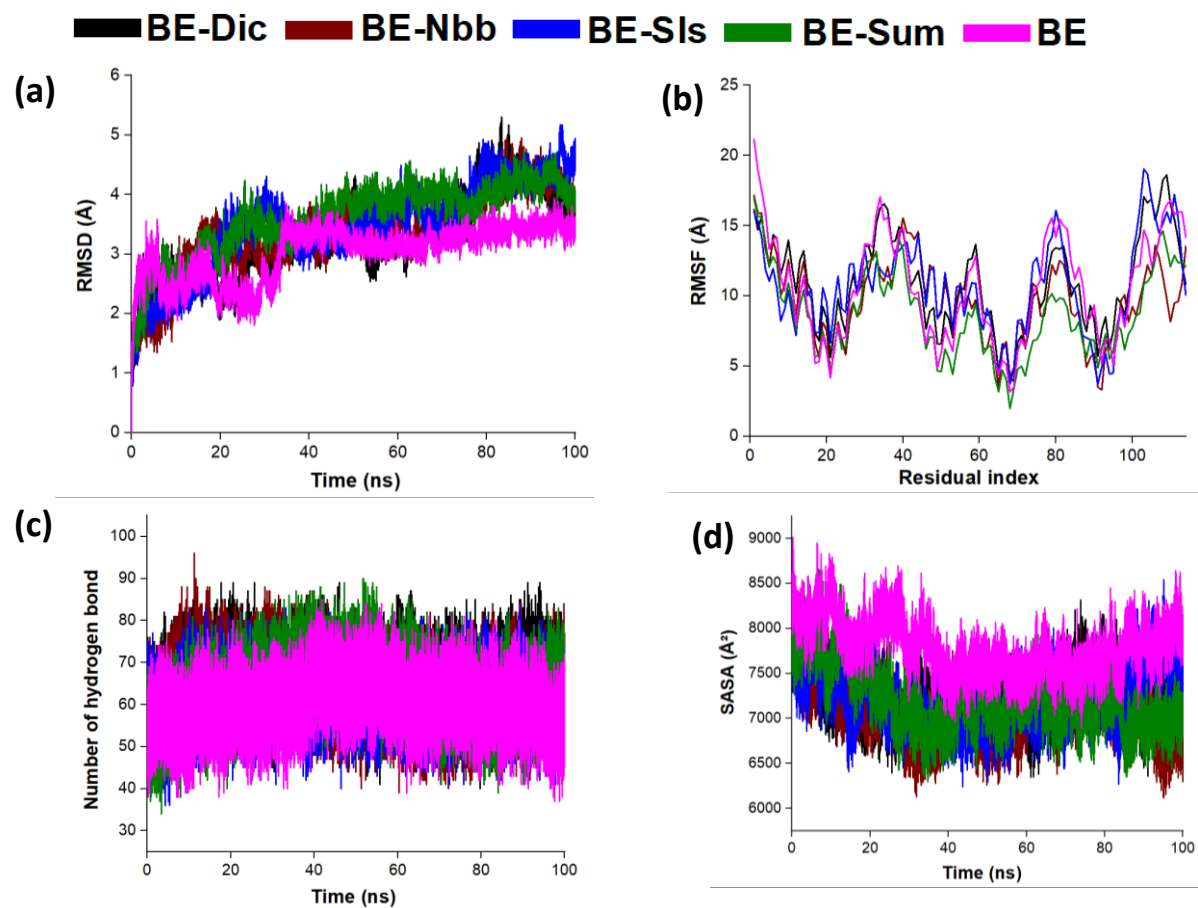


**Figure S7(c):** The stability of the various AH-pollutant complexes at 100 ns simulation time derived from the plot of number of hydrogen bond

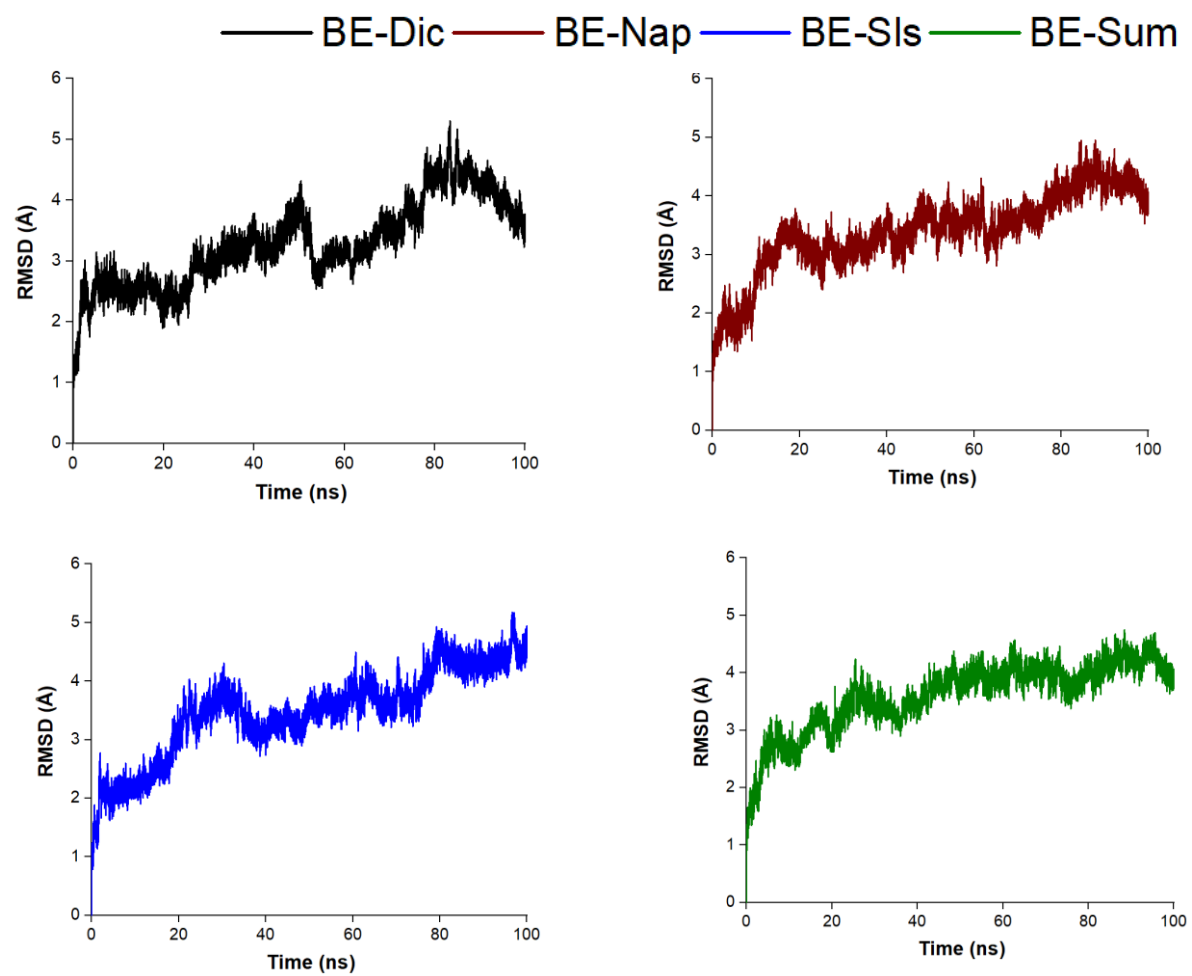




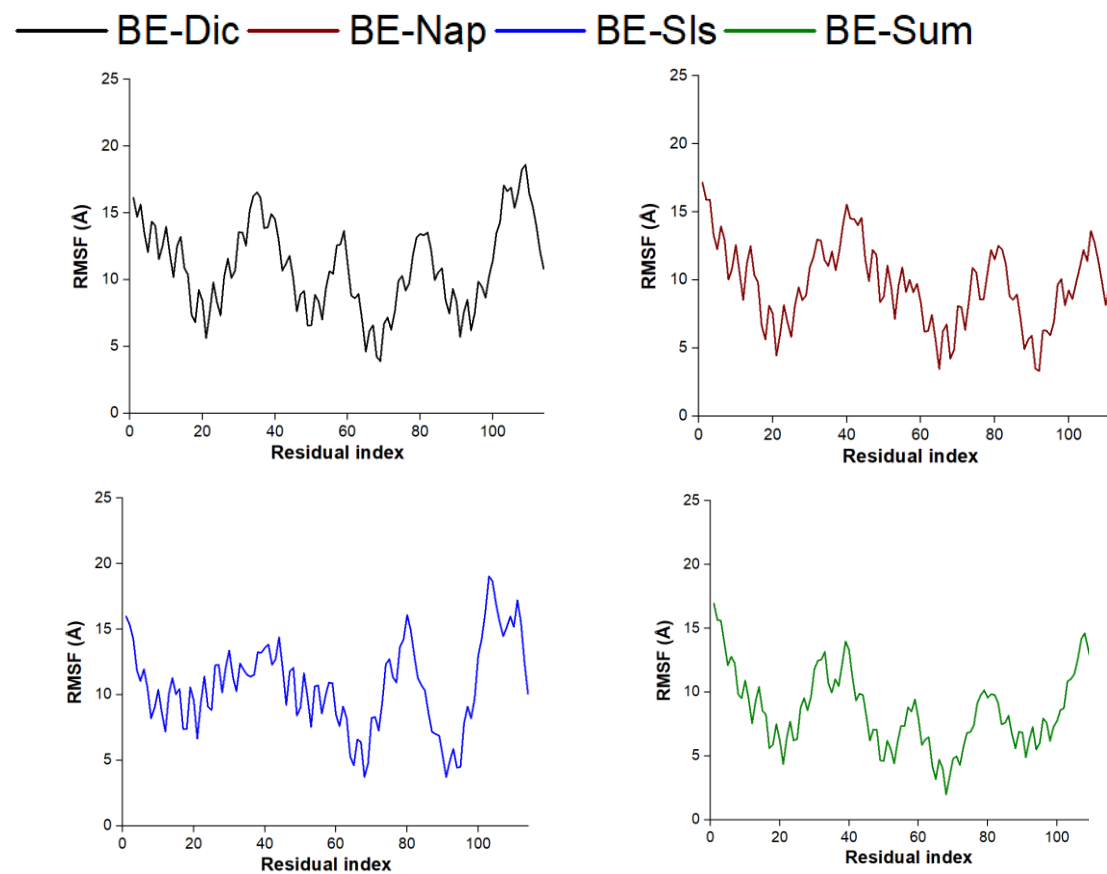
**Figure S7(d):** The stability of the various AH-pollutant complexes at 100 ns simulation time derived from the plot of SASA



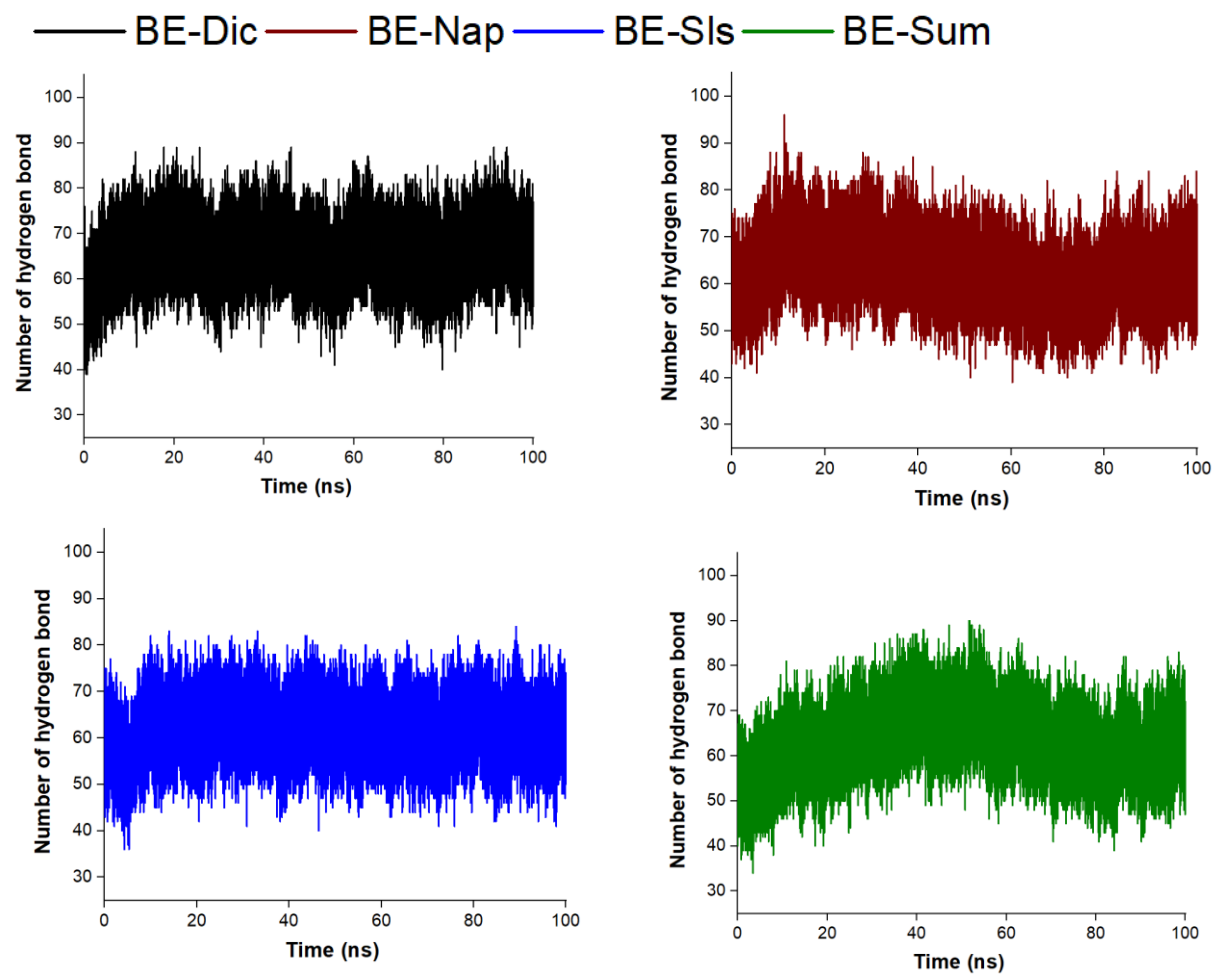
**Figure S8:** The stability of the BE protein without the ligands and the various complexes formed at 100 ns simulation time derived from the plot of (a) RMSD (Å), (b) RMSF (Å), (c) Number of hydrogen bond and (d) SASA (Å<sup>2</sup>)



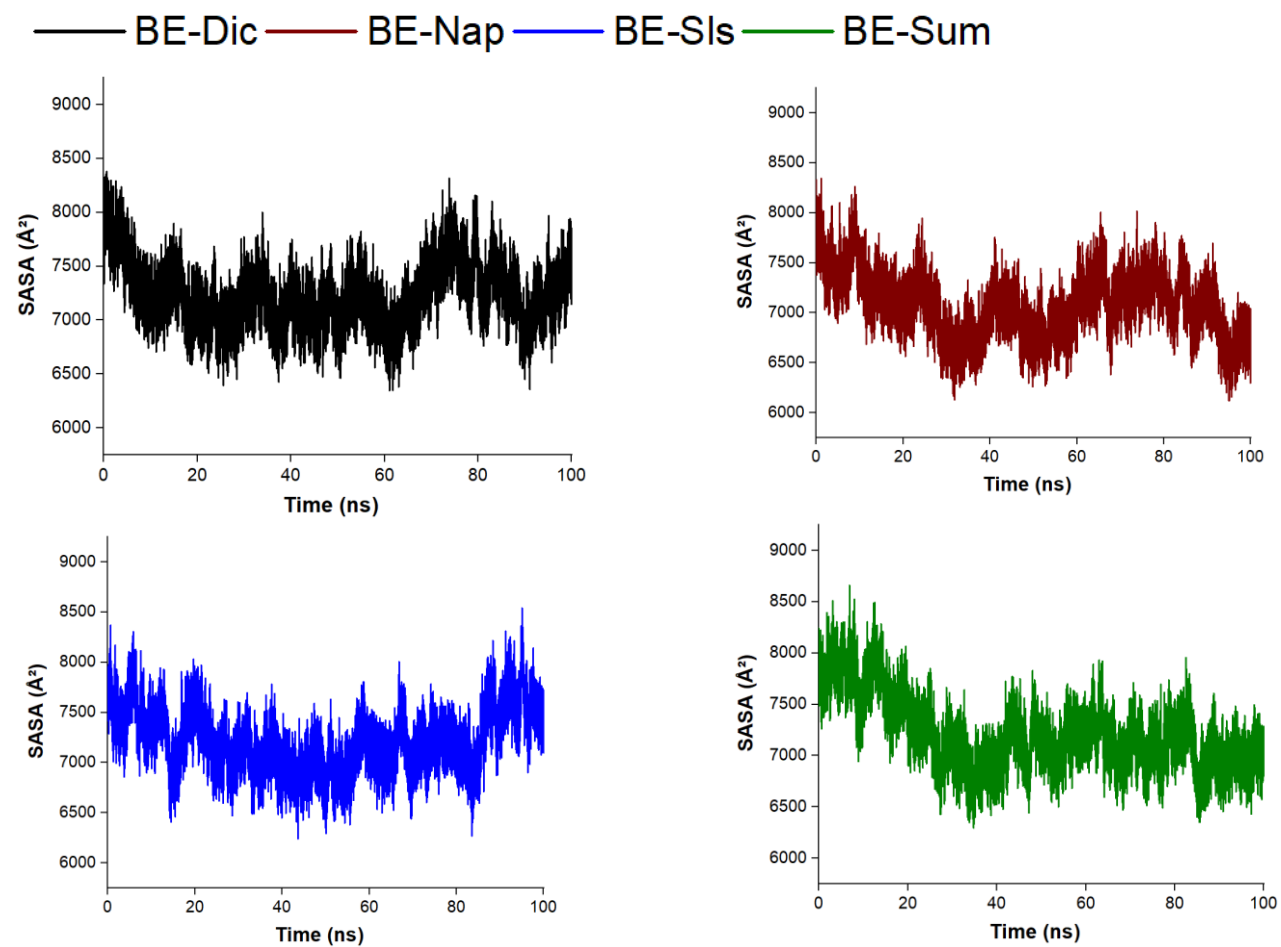
**Figure S9(a):** The stability of the various BE-pollutant complexes at 100 ns simulation time derived from the plot of RMSD



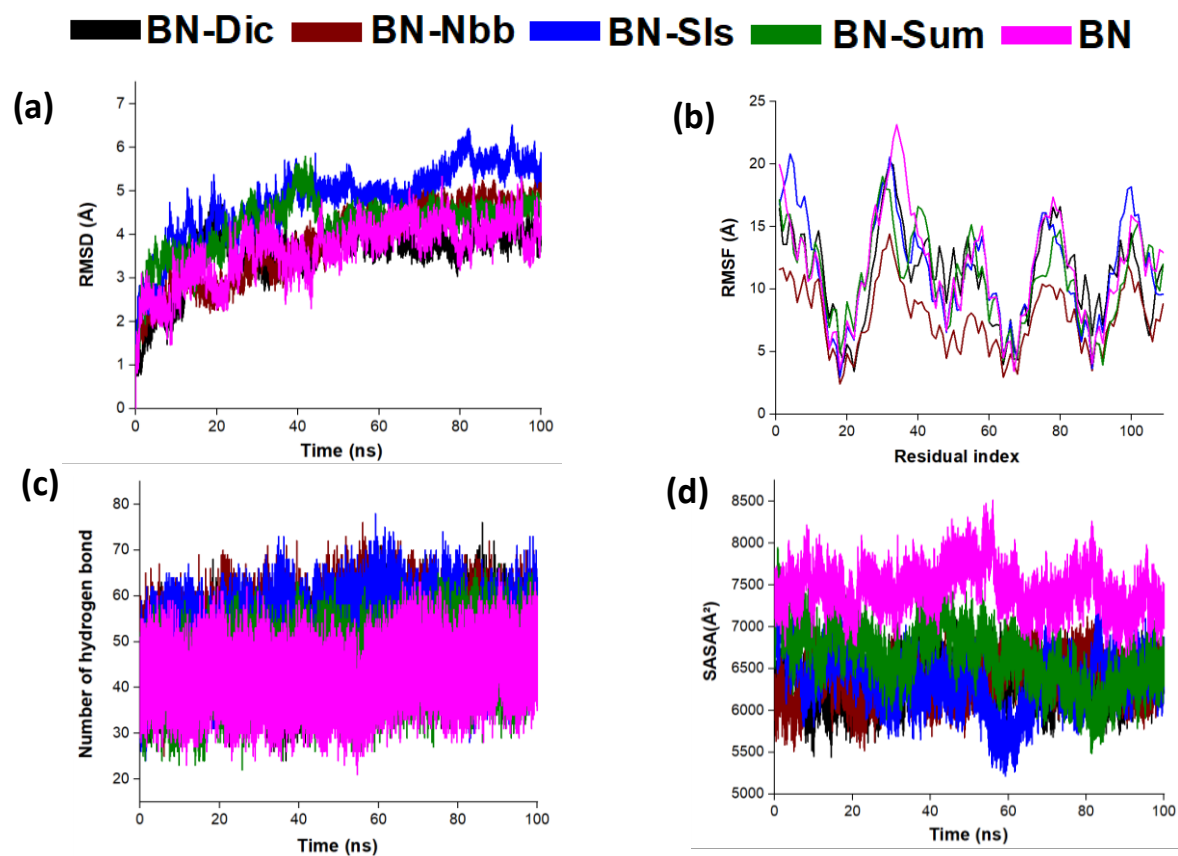
**Figure S9(b):** The stability of the various BE-pollutant complexes at 100 ns simulation time derived from the plot of RMSF



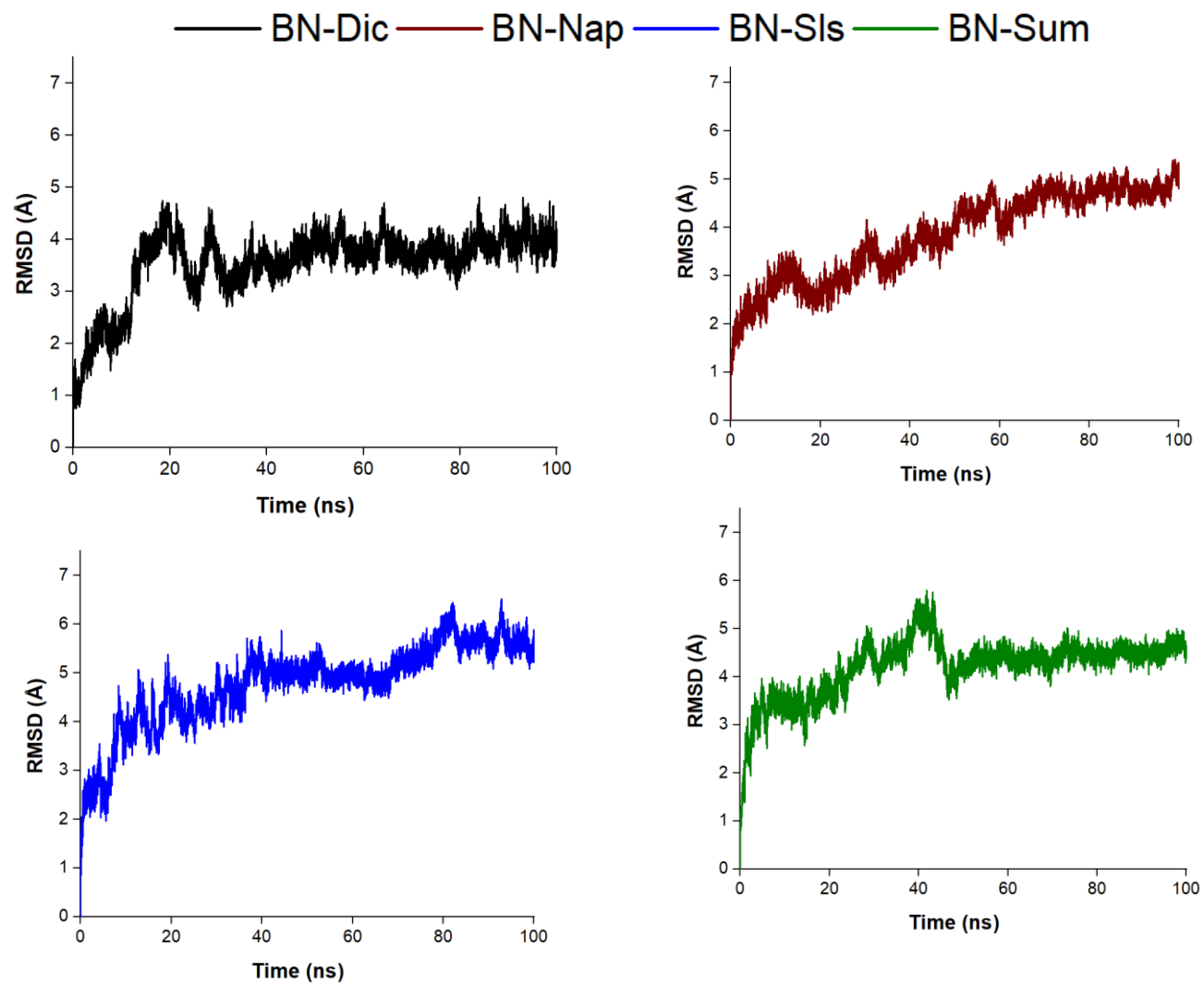
**Figure S9(c):** The stability of the various BE-pollutant complexes at 100 ns simulation time derived from the plot of number of hydrogen bond.



**Figure S9(d):** The stability of the various BE-pollutant complexes at 100 ns simulation time derived from the plot of SASA.

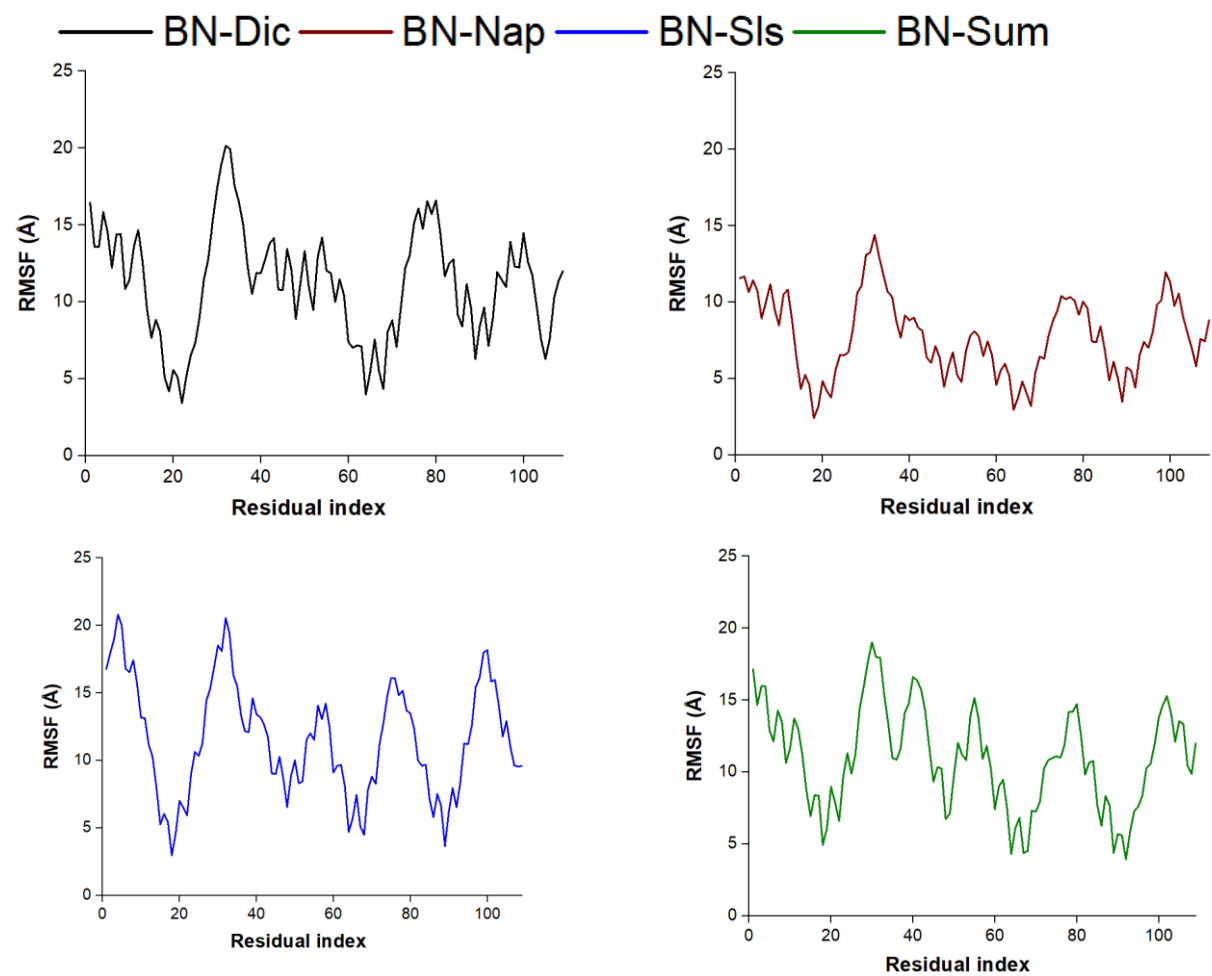


**Figure S10:** The stability of the BN protein without the ligands and the various complexes formed at 100 ns simulation time derived from the plot of (a) RMSD (Å), (b) RMSF (Å), (c) Number of hydrogen bond and (d) SASA (Å<sup>2</sup>)

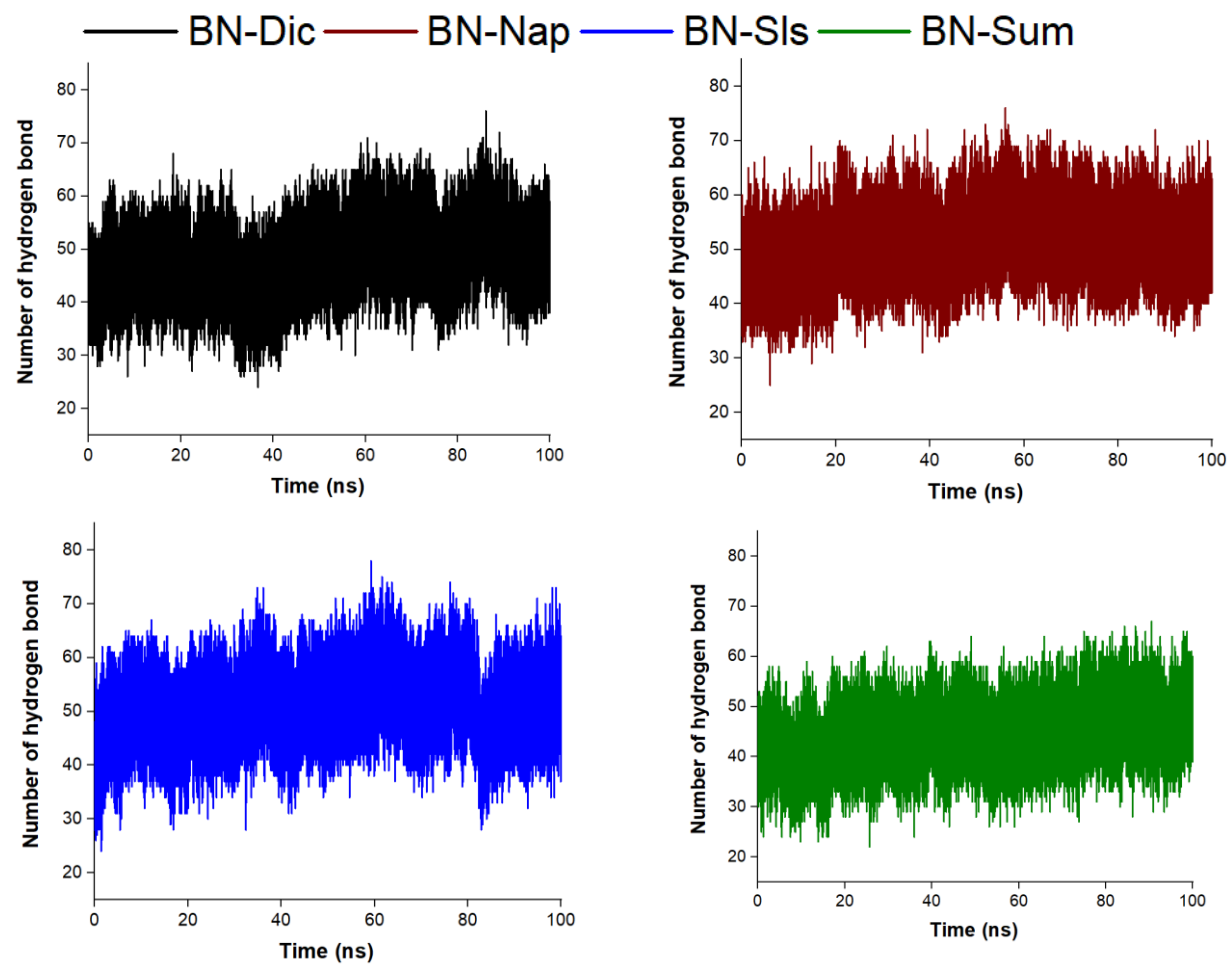


**Figure S11(a):** The stability of the various BN-pollutant complexes at 100 ns simulation time derived from the plot of RMSD.

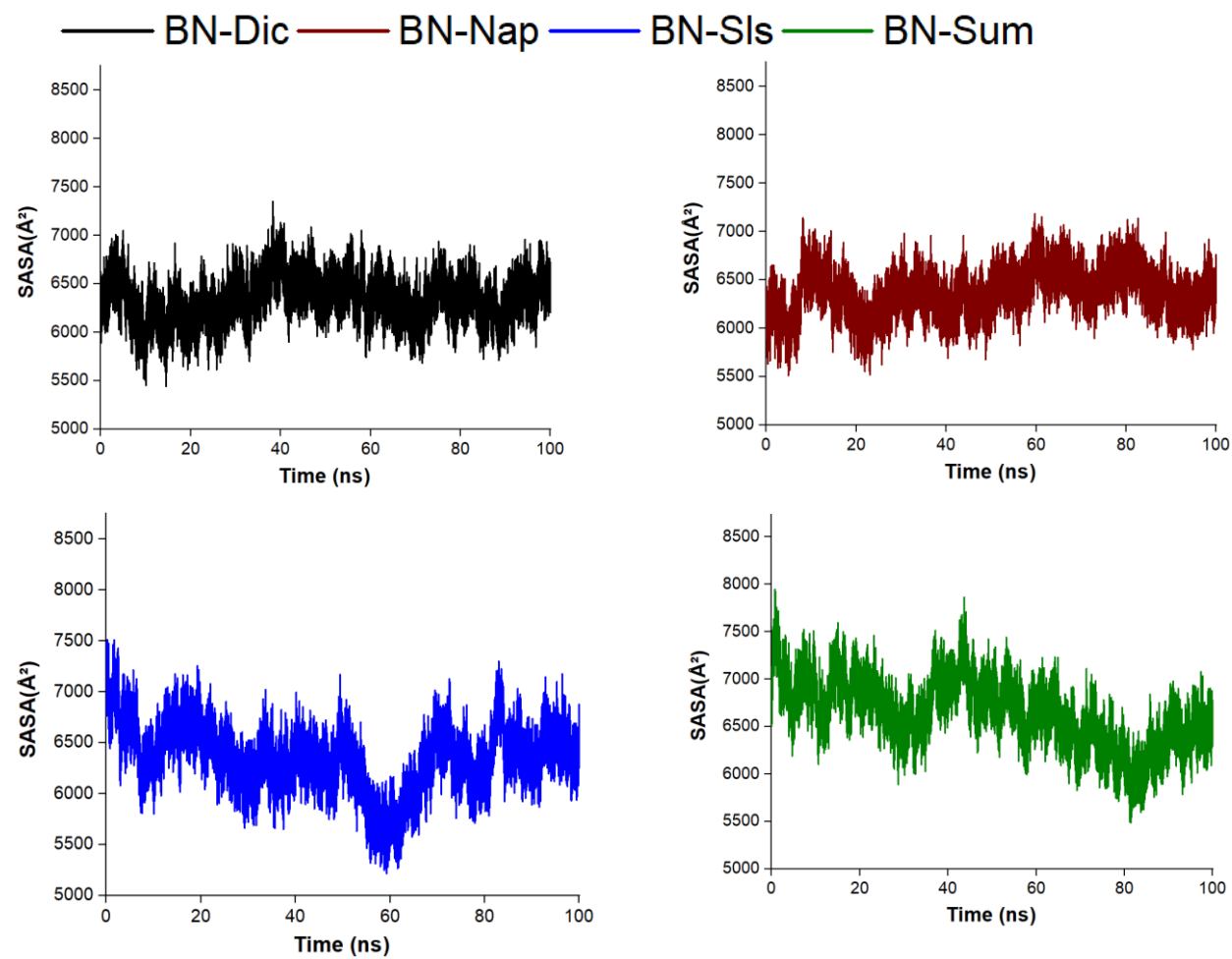




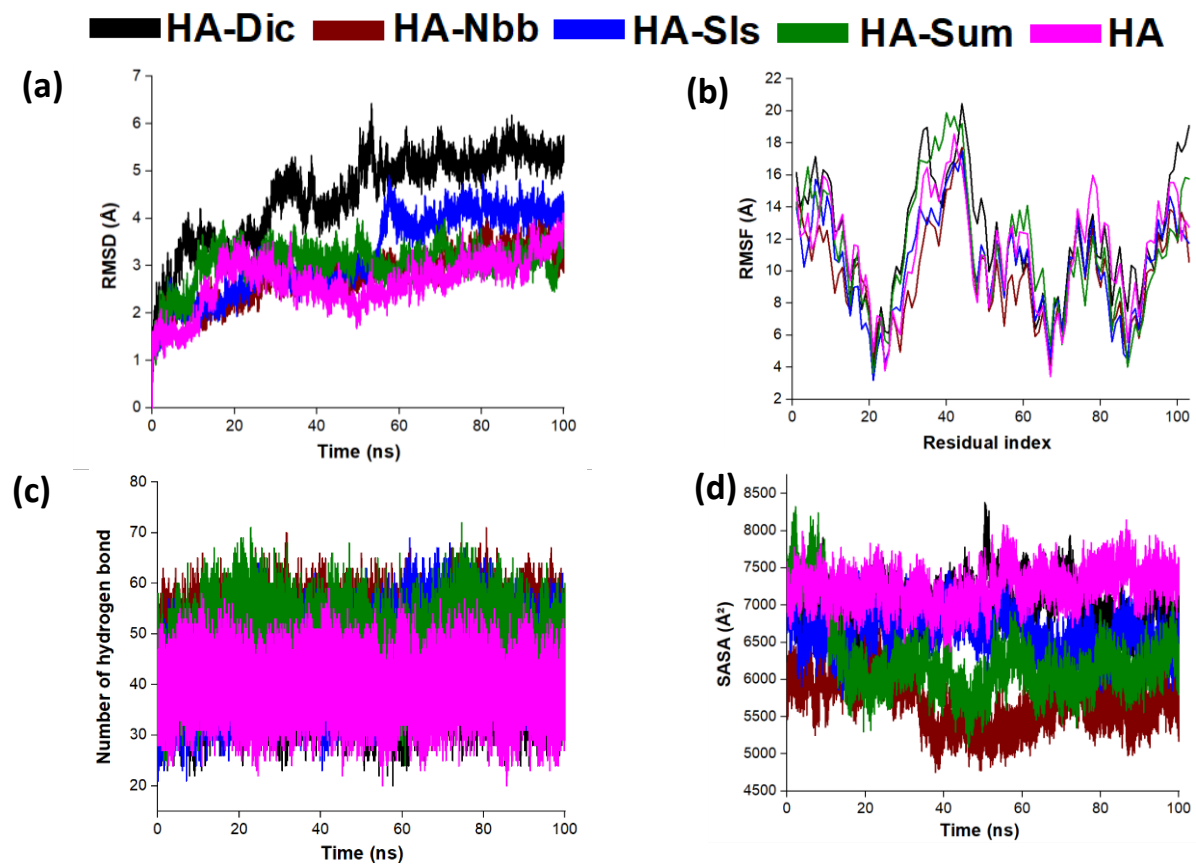
**Figure S11(b):** The stability of the various BN-pollutant complexes at 100 ns simulation time derived from the plot of RMSF.



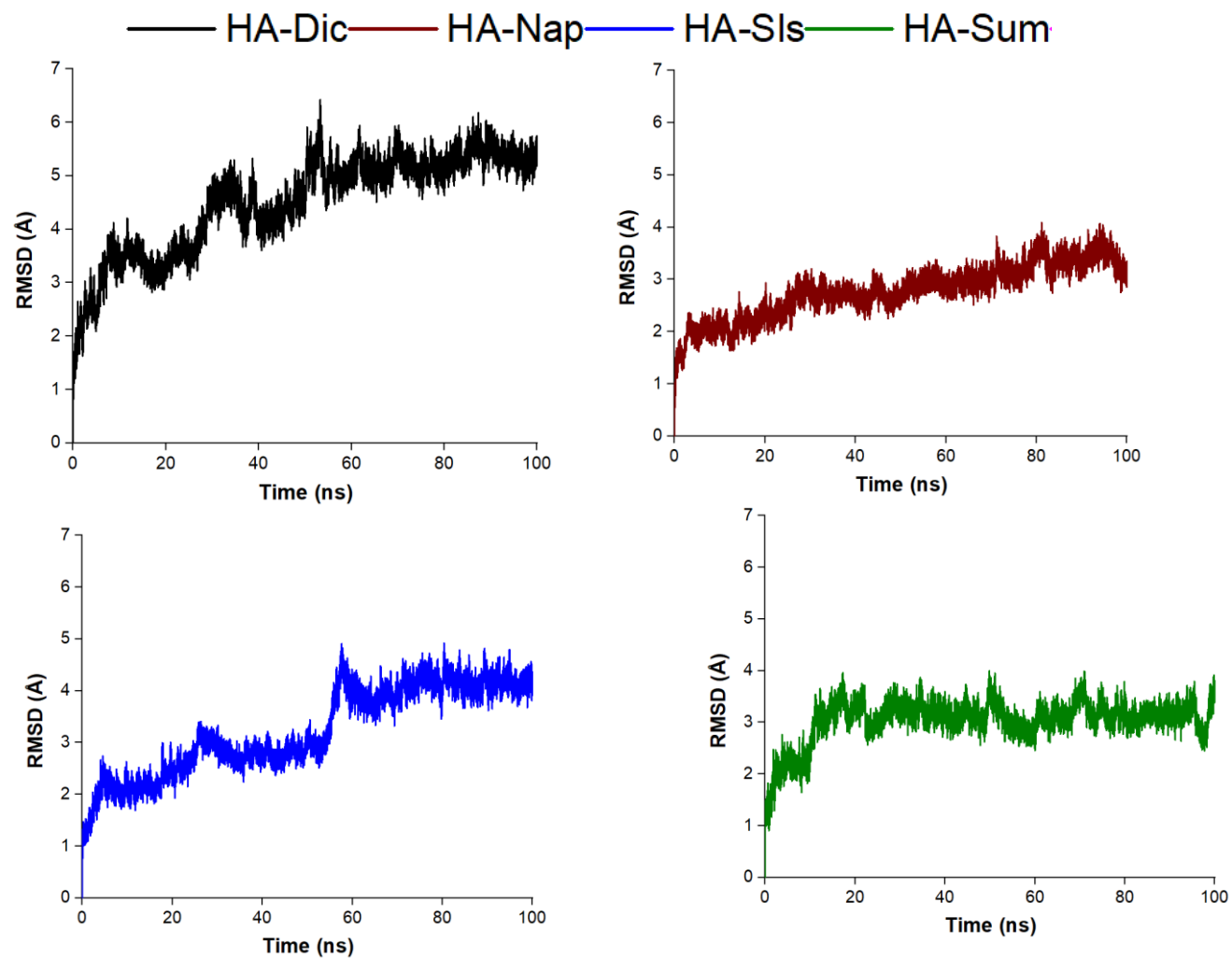
**Figure S11(c):** The stability of the various BN-pollutant complexes at 100 ns simulation time derived from the plot of number of hydrogen bond.



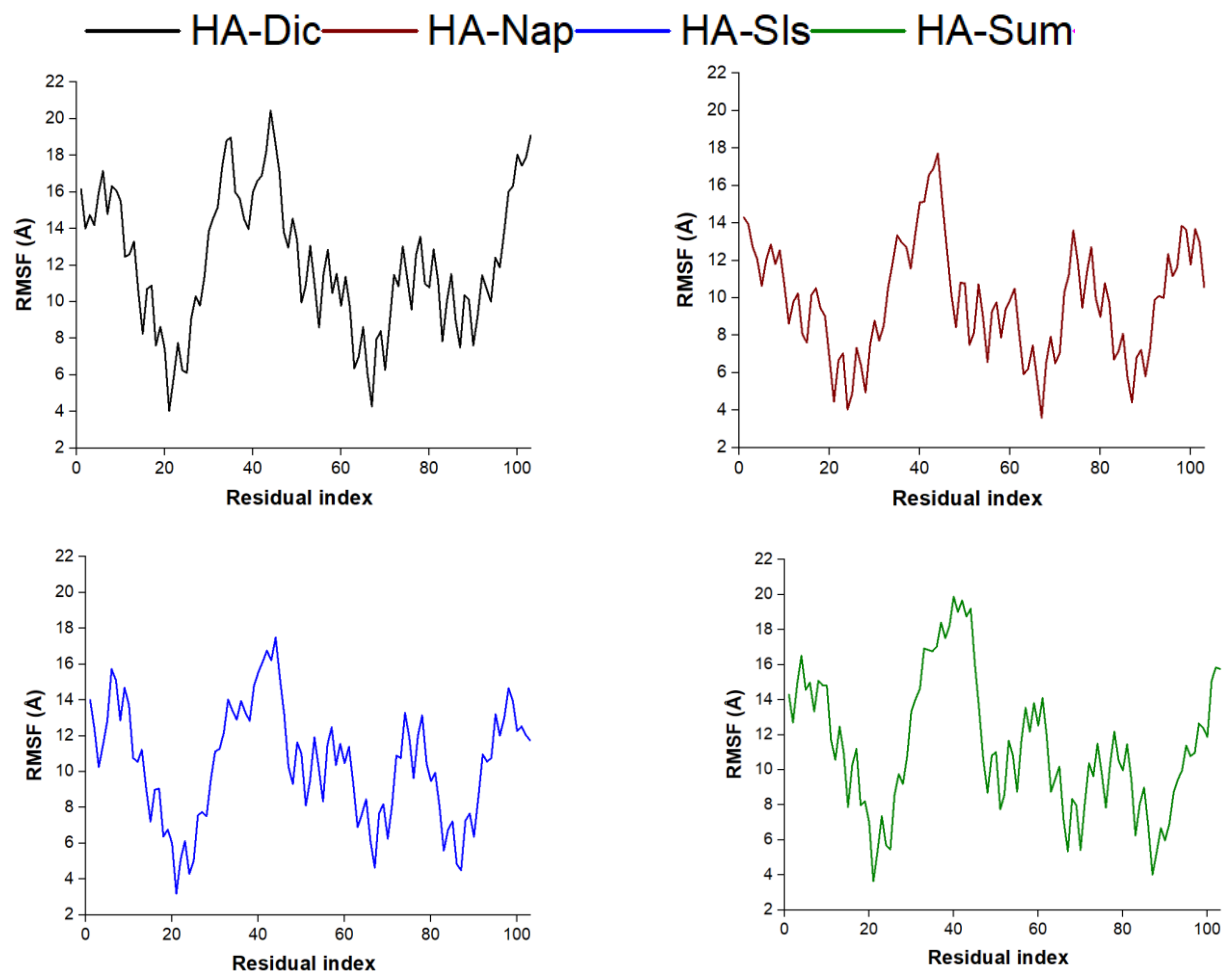
**Figure S11(d):** The stability of the various BN-pollutant complexes at 100 ns simulation time derived from the plot of SASA.



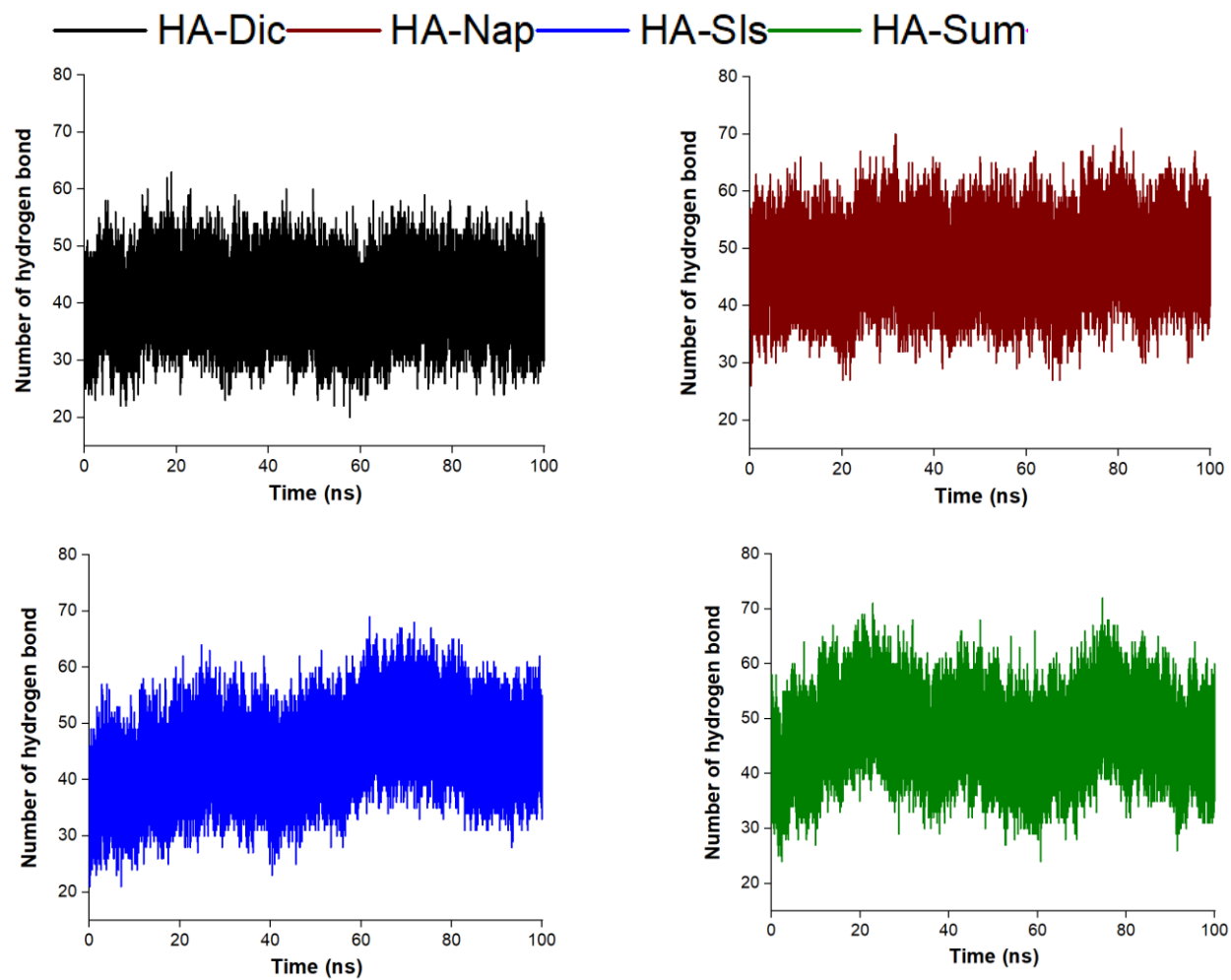
**Figure S12:** The stability of the HA protein without the ligands and the various complexes formed at 100 ns simulation time derived from the plot of (a) RMSD (Å), (b) RMSF (Å), (c) Number of hydrogen bond and (d) SASA (Å<sup>2</sup>)



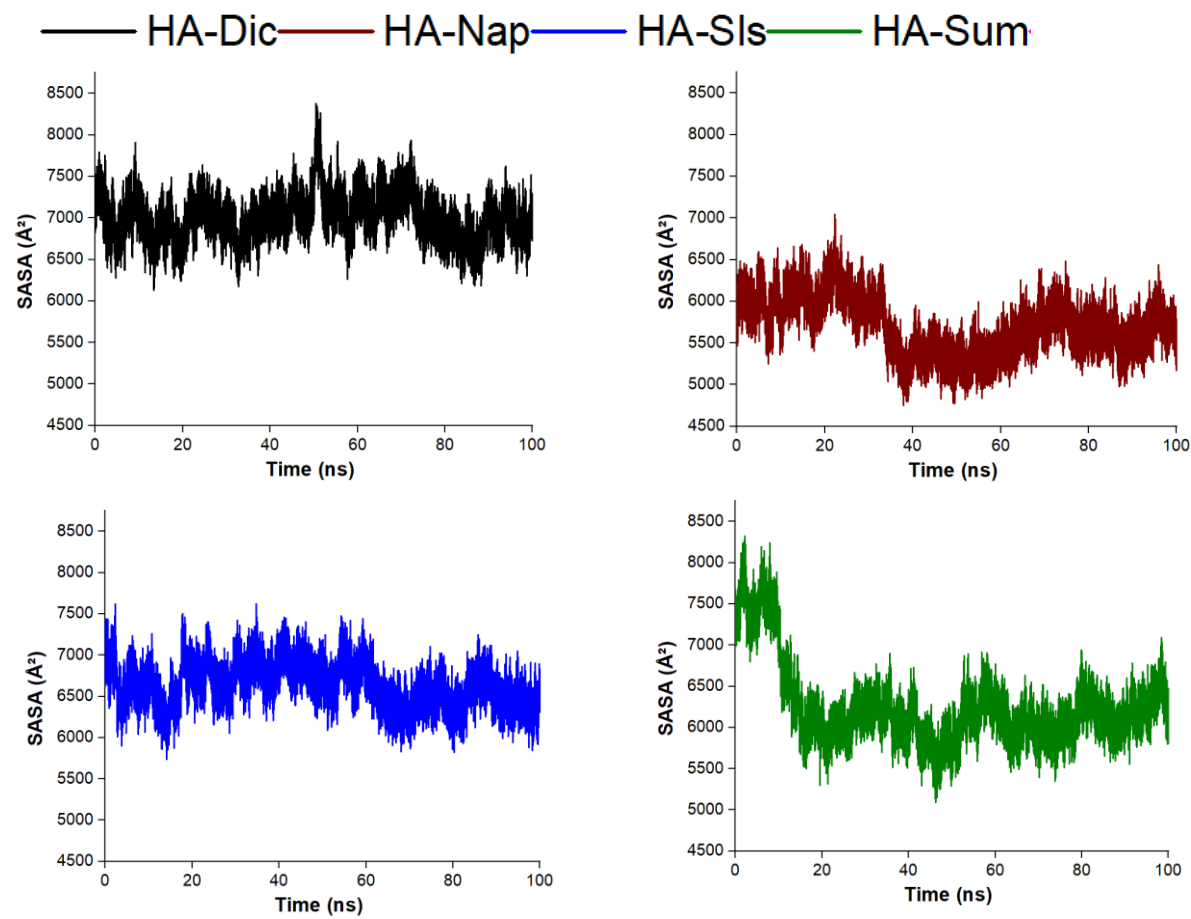
**Figure S13(a):** The stability of the various HA-pollutant complexes at 100 ns simulation time derived from the plot of RMSD.



**Figure S13(b):** The stability of the various HA-pollutant complexes at 100 ns simulation time derived from the plot of RMSF.



**Figure S13(c):** The stability of the various HA-pollutant complexes at 100 ns simulation time derived from the plot of number of hydrogen bond.



**Figure S13(d):** The stability of the various HA-pollutant complexes at 100 ns simulation time derived from the plot of SASA.



**Table A:** The number of atoms present in the system of AH-Dic

ATOM	1	N	GLY	1	21.027	-11.862	-0.185	1.00	0.00
ATOM	2	H1	GLY	1	20.326	-11.147	-0.309	1.00	0.00
ATOM	3	H2	GLY	1	20.642	-12.749	-0.477	1.00	0.00
ATOM	4	H3	GLY	1	21.898	-11.536	-0.580	1.00	0.00
ATOM	5	CA	GLY	1	21.287	-12.007	1.275	1.00	0.00
ATOM	6	HA2	GLY	1	21.055	-13.023	1.596	1.00	0.00
ATOM	7	HA3	GLY	1	22.333	-11.789	1.491	1.00	0.00
ATOM	8	C	GLY	1	20.403	-11.026	2.049	1.00	0.00
ATOM	9	O	GLY	1	20.874	-10.037	2.576	1.00	0.00
ATOM	10	N	PRO	2	19.096	-11.311	2.115	1.00	0.00
ATOM	11	CD	PRO	2	18.453	-12.487	1.503	1.00	0.00
ATOM	12	HD2	PRO	2	19.014	-13.385	1.764	1.00	0.00
ATOM	13	HD3	PRO	2	18.439	-12.371	0.419	1.00	0.00
ATOM	14	CG	PRO	2	17.074	-12.474	2.098	1.00	0.00
ATOM	15	HG2	PRO	2	17.058	-13.108	2.985	1.00	0.00
ATOM	16	HG3	PRO	2	16.362	-12.856	1.367	1.00	0.00
ATOM	17	CB	PRO	2	16.778	-11.053	2.438	1.00	0.00
ATOM	18	HB2	PRO	2	16.109	-11.039	3.298	1.00	0.00
ATOM	19	HB3	PRO	2	16.337	-10.476	1.625	1.00	0.00

ATOM	20	CA	PRO	2	18.132	-10.459	2.824	1.00	0.00
ATOM	21	HA	PRO	2	18.271	-9.432	2.488	1.00	0.00
ATOM	22	C	PRO	2	18.321	-10.529	4.342	1.00	0.00
ATOM	23	O	PRO	2	17.876	-9.666	5.073	1.00	0.00
ATOM	24	N	MET	3	18.977	-11.550	4.821	1.00	0.00
ATOM	25	H	MET	3	19.350	-12.272	4.220	1.00	0.00
ATOM	26	CA	MET	3	19.192	-11.673	6.291	1.00	0.00
ATOM	27	HA	MET	3	18.236	-11.761	6.807	1.00	0.00
ATOM	28	CB	MET	3	20.021	-12.926	6.581	1.00	0.00
ATOM	29	HB2	MET	3	20.954	-12.884	6.018	1.00	0.00
ATOM	30	HB3	MET	3	20.243	-12.978	7.647	1.00	0.00
ATOM	31	CG	MET	3	19.230	-14.168	6.164	1.00	0.00
ATOM	32	HG2	MET	3	19.043	-14.143	5.090	1.00	0.00
ATOM	33	HG3	MET	3	19.796	-15.066	6.413	1.00	0.00
ATOM	34	SD	MET	3	17.648	-14.199	7.043	1.00	0.00
ATOM	35	CE	MET	3	18.322	-14.277	8.721	1.00	0.00
ATOM	36	HE1	MET	3	18.939	-13.398	8.907	1.00	0.00
ATOM	37	HE2	MET	3	17.504	-14.305	9.441	1.00	0.00
ATOM	38	HE3	MET	3	18.930	-15.176	8.828	1.00	0.00
ATOM	39	C	MET	3	19.936	-10.438	6.802	1.00	0.00

ATOM	40	O	MET	3	19.690	-9.960	7.892	1.00	0.00
ATOM	41	N	ARG	4	20.846	-9.917	6.024	1.00	0.00
ATOM	42	H	ARG	4	21.058	-10.310	5.118	1.00	0.00
ATOM	43	CA	ARG	4	21.603	-8.713	6.466	1.00	0.00
ATOM	44	HA	ARG	4	22.187	-8.941	7.358	1.00	0.00
ATOM	45	CB	ARG	4	22.558	-8.273	5.355	1.00	0.00
ATOM	46	HB2	ARG	4	21.995	-8.106	4.437	1.00	0.00
ATOM	47	HB3	ARG	4	23.056	-7.349	5.649	1.00	0.00
ATOM	48	CG	ARG	4	23.605	-9.363	5.119	1.00	0.00
ATOM	49	HG2	ARG	4	24.110	-9.592	6.057	1.00	0.00
ATOM	50	HG3	ARG	4	23.117	-10.262	4.742	1.00	0.00
ATOM	51	CD	ARG	4	24.630	-8.872	4.095	1.00	0.00
ATOM	52	HD2	ARG	4	25.152	-7.994	4.475	1.00	0.00
ATOM	53	HD3	ARG	4	25.353	-9.659	3.878	1.00	0.00
ATOM	54	NE	ARG	4	23.933	-8.503	2.832	1.00	0.00
ATOM	55	HE	ARG	4	23.586	-9.208	2.197	1.00	0.00
ATOM	56	CZ	ARG	4	23.759	-7.246	2.524	1.00	0.00
ATOM	57	NH1	ARG	4	24.758	-6.410	2.608	1.00	0.00
ATOM	58	HH11	ARG	4	25.664	-6.739	2.911	1.00	0.00
ATOM	59	HH12	ARG	4	24.621	-5.439	2.369	1.00	0.00

ATOM	60	NH2	ARG	4	22.588	-6.825	2.133	1.00	0.00
ATOM	61	HH21	ARG	4	21.817	-7.475	2.069	1.00	0.00
ATOM	62	HH22	ARG	4	22.458	-5.852	1.896	1.00	0.00
ATOM	63	C	ARG	4	20.624	-7.579	6.774	1.00	0.00
ATOM	64	O	ARG	4	20.819	-6.809	7.693	1.00	0.00
ATOM	65	N	ARG	5	19.570	-7.470	6.011	1.00	0.00
ATOM	66	H	ARG	5	19.402	-8.106	5.244	1.00	0.00
ATOM	67	CA	ARG	5	18.579	-6.386	6.261	1.00	0.00
ATOM	68	HA	ARG	5	19.051	-5.410	6.154	1.00	0.00
ATOM	69	CB	ARG	5	17.440	-6.493	5.244	1.00	0.00
ATOM	70	HB2	ARG	5	16.988	-7.483	5.307	1.00	0.00
ATOM	71	HB3	ARG	5	16.687	-5.735	5.460	1.00	0.00
ATOM	72	CG	ARG	5	17.993	-6.275	3.834	1.00	0.00
ATOM	73	HG2	ARG	5	18.505	-5.314	3.788	1.00	0.00
ATOM	74	HG3	ARG	5	18.696	-7.073	3.591	1.00	0.00
ATOM	75	CD	ARG	5	16.841	-6.287	2.828	1.00	0.00
ATOM	76	HD2	ARG	5	16.243	-7.190	2.950	1.00	0.00
ATOM	77	HD3	ARG	5	16.209	-5.411	2.968	1.00	0.00
ATOM	78	NE	ARG	5	17.391	-6.263	1.443	1.00	0.00
ATOM	79	HE	ARG	5	17.918	-5.474	1.098	1.00	0.00

ATOM	80	CZ	ARG	5	17.196	-7.278	0.646	1.00	0.00
ATOM	81	NH1	ARG	5	15.995	-7.765	0.490	1.00	0.00
ATOM	82	HH11	ARG	5	15.218	-7.354	0.988	1.00	0.00
ATOM	83	HH12	ARG	5	15.848	-8.551	-0.128	1.00	0.00
ATOM	84	NH2	ARG	5	18.202	-7.806	0.005	1.00	0.00
ATOM	85	HH21	ARG	5	19.130	-7.427	0.128	1.00	0.00
ATOM	86	HH22	ARG	5	18.048	-8.592	-0.611	1.00	0.00
ATOM	87	C	ARG	5	18.015	-6.524	7.676	1.00	0.00
ATOM	88	O	ARG	5	17.663	-5.550	8.311	1.00	0.00
ATOM	89	N	GLU	6	17.925	-7.727	8.174	1.00	0.00
ATOM	90	H	GLU	6	18.215	-8.542	7.651	1.00	0.00
ATOM	91	CA	GLU	6	17.383	-7.925	9.548	1.00	0.00
ATOM	92	HA	GLU	6	16.359	-7.557	9.607	1.00	0.00
ATOM	93	CB	GLU	6	17.387	-9.417	9.889	1.00	0.00
ATOM	94	HB2	GLU	6	18.398	-9.812	9.784	1.00	0.00
ATOM	95	HB3	GLU	6	17.048	-9.557	10.916	1.00	0.00
ATOM	96	CG	GLU	6	16.448	-10.160	8.937	1.00	0.00
ATOM	97	HG2	GLU	6	15.443	-9.747	9.018	1.00	0.00
ATOM	98	HG3	GLU	6	16.805	-10.047	7.913	1.00	0.00
ATOM	99	CD	GLU	6	16.420	-11.644	9.305	1.00	0.00

ATOM	100	OE1	GLU	6	17.218	-12.045	10.136	1.00	0.00
ATOM	101	OE2	GLU	6	15.598	-12.356	8.750	1.00	0.00
ATOM	102	C	GLU	6	18.255	-7.169	10.553	1.00	0.00
ATOM	103	O	GLU	6	17.780	-6.692	11.565	1.00	0.00
ATOM	104	N	ARG	7	19.526	-7.055	10.283	1.00	0.00
ATOM	105	H	ARG	7	19.928	-7.450	9.444	1.00	0.00
ATOM	106	CA	ARG	7	20.425	-6.329	11.223	1.00	0.00
ATOM	107	HA	ARG	7	20.527	-6.886	12.154	1.00	0.00
ATOM	108	CB	ARG	7	21.810	-6.176	10.591	1.00	0.00
ATOM	109	HB2	ARG	7	22.181	-7.155	10.287	1.00	0.00
ATOM	110	HB3	ARG	7	21.742	-5.527	9.718	1.00	0.00
ATOM	111	CG	ARG	7	22.771	-5.561	11.610	1.00	0.00
ATOM	112	HG2	ARG	7	22.383	-4.598	11.941	1.00	0.00
ATOM	113	HG3	ARG	7	22.868	-6.228	12.467	1.00	0.00
ATOM	114	CD	ARG	7	24.143	-5.362	10.962	1.00	0.00
ATOM	115	HD2	ARG	7	24.505	-6.303	10.547	1.00	0.00
ATOM	116	HD3	ARG	7	24.082	-4.616	10.170	1.00	0.00
ATOM	117	NE	ARG	7	25.113	-4.889	11.990	1.00	0.00
ATOM	118	HE	ARG	7	25.541	-5.528	12.646	1.00	0.00
ATOM	119	CZ	ARG	7	25.427	-3.624	12.057	1.00	0.00

ATOM	120	NH1	ARG	7	24.836	-2.851	12.926	1.00	0.00
ATOM	121	HH11	ARG	7	24.137	-3.235	13.545	1.00	0.00
ATOM	122	HH12	ARG	7	25.081	-1.873	12.976	1.00	0.00
ATOM	123	NH2	ARG	7	26.332	-3.133	11.255	1.00	0.00
ATOM	124	HH21	ARG	7	26.788	-3.735	10.584	1.00	0.00
ATOM	125	HH22	ARG	7	26.573	-2.154	11.309	1.00	0.00
ATOM	126	C	ARG	7	19.844	-4.945	11.518	1.00	0.00
ATOM	127	O	ARG	7	19.865	-4.476	12.639	1.00	0.00
ATOM	128	N	GLY	8	19.323	-4.286	10.519	1.00	0.00
ATOM	129	H	GLY	8	19.301	-4.669	9.585	1.00	0.00
ATOM	130	CA	GLY	8	18.741	-2.932	10.742	1.00	0.00
ATOM	131	HA2	GLY	8	19.517	-2.244	11.076	1.00	0.00
ATOM	132	HA3	GLY	8	18.299	-2.560	9.818	1.00	0.00
ATOM	133	C	GLY	8	17.654	-3.016	11.815	1.00	0.00
ATOM	134	O	GLY	8	17.440	-2.087	12.568	1.00	0.00
ATOM	135	N	ARG	9	16.963	-4.121	11.890	1.00	0.00
ATOM	136	H	ARG	9	17.133	-4.897	11.266	1.00	0.00
ATOM	137	CA	ARG	9	15.891	-4.261	12.916	1.00	0.00
ATOM	138	HA	ARG	9	15.091	-3.546	12.727	1.00	0.00
ATOM	139	CB	ARG	9	15.309	-5.674	12.855	1.00	0.00

ATOM	140	HB2	ARG	9	14.946	-5.876	11.847	1.00	0.00
ATOM	141	HB3	ARG	9	16.082	-6.398	13.113	1.00	0.00
ATOM	142	CG	ARG	9	14.150	-5.790	13.848	1.00	0.00
ATOM	143	HG2	ARG	9	14.505	-5.552	14.851	1.00	0.00
ATOM	144	HG3	ARG	9	13.360	-5.094	13.567	1.00	0.00
ATOM	145	CD	ARG	9	13.602	-7.219	13.828	1.00	0.00
ATOM	146	HD2	ARG	9	13.319	-7.501	12.814	1.00	0.00
ATOM	147	HD3	ARG	9	14.352	-7.917	14.202	1.00	0.00
ATOM	148	NE	ARG	9	12.397	-7.301	14.701	1.00	0.00
ATOM	149	HE	ARG	9	11.544	-6.813	14.471	1.00	0.00
ATOM	150	CZ	ARG	9	12.430	-8.017	15.791	1.00	0.00
ATOM	151	NH1	ARG	9	12.904	-9.232	15.761	1.00	0.00
ATOM	152	HH11	ARG	9	13.245	-9.617	14.891	1.00	0.00
ATOM	153	HH12	ARG	9	12.928	-9.783	16.607	1.00	0.00
ATOM	154	NH2	ARG	9	11.989	-7.516	16.913	1.00	0.00
ATOM	155	HH21	ARG	9	11.624	-6.575	16.933	1.00	0.00
ATOM	156	HH22	ARG	9	12.016	-8.072	17.756	1.00	0.00
ATOM	157	C	ARG	9	16.481	-4.010	14.305	1.00	0.00
ATOM	158	O	ARG	9	15.832	-3.465	15.176	1.00	0.00
ATOM	159	N	GLN	10	17.707	-4.405	14.520	1.00	0.00



ATOM	160	H	GLN	10	18.253	-4.859	13.801	1.00	0.00
ATOM	161	CA	GLN	10	18.336	-4.189	15.853	1.00	0.00
ATOM	162	HA	GLN	10	17.821	-4.775	16.615	1.00	0.00
ATOM	163	CB	GLN	10	19.799	-4.633	15.802	1.00	0.00
ATOM	164	HB2	GLN	10	20.306	-4.123	14.983	1.00	0.00
ATOM	165	HB3	GLN	10	20.289	-4.383	16.743	1.00	0.00
ATOM	166	CG	GLN	10	19.866	-6.146	15.580	1.00	0.00
ATOM	167	HG2	GLN	10	19.286	-6.666	16.343	1.00	0.00
ATOM	168	HG3	GLN	10	19.479	-6.402	14.593	1.00	0.00
ATOM	169	CD	GLN	10	21.320	-6.611	15.670	1.00	0.00
ATOM	170	OE1	GLN	10	21.981	-6.863	14.573	1.00	0.00
ATOM	171	NE2	GLN	10	21.861	-6.747	16.749	1.00	0.00
ATOM	172	HE21	GLN	10	22.822	-7.055	16.793	1.00	0.00
ATOM	173	HE22	GLN	10	21.347	-6.552	17.596	1.00	0.00
ATOM	174	C	GLN	10	18.266	-2.704	16.215	1.00	0.00
ATOM	175	O	GLN	10	18.108	-2.343	17.364	1.00	0.00
ATOM	176	N	GLY	11	18.383	-1.841	15.244	1.00	0.00
ATOM	177	H	GLY	11	18.515	-2.135	14.287	1.00	0.00
ATOM	178	CA	GLY	11	18.324	-0.380	15.533	1.00	0.00
ATOM	179	HA2	GLY	11	19.194	-0.081	16.118	1.00	0.00

ATOM	180	HA3	GLY	11	18.302	0.183	14.600	1.00	0.00
ATOM	181	C	GLY	11	17.056	-0.070	16.332	1.00	0.00
ATOM	182	O	GLY	11	17.049	0.785	17.194	1.00	0.00
ATOM	183	N	ASP	12	15.984	-0.759	16.051	1.00	0.00
ATOM	184	H	ASP	12	15.982	-1.471	15.334	1.00	0.00
ATOM	185	CA	ASP	12	14.719	-0.502	16.796	1.00	0.00
ATOM	186	HA	ASP	12	13.909	-1.105	16.384	1.00	0.00
ATOM	187	CB	ASP	12	14.907	-0.876	18.267	1.00	0.00
ATOM	188	HB2	ASP	12	15.760	-0.333	18.675	1.00	0.00
ATOM	189	HB3	ASP	12	14.009	-0.615	18.826	1.00	0.00
ATOM	190	CG	ASP	12	15.159	-2.381	18.382	1.00	0.00
ATOM	191	OD1	ASP	12	14.921	-3.077	17.409	1.00	0.00
ATOM	192	OD2	ASP	12	15.586	-2.811	19.441	1.00	0.00
ATOM	193	C	ASP	12	14.355	0.980	16.689	1.00	0.00
ATOM	194	O	ASP	12	14.037	1.623	17.669	1.00	0.00
ATOM	195	N	SER	13	14.400	1.528	15.505	1.00	0.00
ATOM	196	H	SER	13	14.664	1.000	14.685	1.00	0.00
ATOM	197	CA	SER	13	14.056	2.968	15.338	1.00	0.00
ATOM	198	HA	SER	13	14.769	3.592	15.877	1.00	0.00
ATOM	199	CB	SER	13	14.109	3.336	13.854	1.00	0.00

ATOM	200	HB2	SER	13	13.347	2.775	13.312	1.00	0.00
ATOM	201	HB3	SER	13	13.926	4.404	13.737	1.00	0.00
ATOM	202	OG	SER	13	15.391	3.016	13.333	1.00	0.00
ATOM	203	HG	SER	13	15.425	3.246	12.402	1.00	0.00
ATOM	204	C	SER	13	12.646	3.219	15.876	1.00	0.00
ATOM	205	O	SER	13	12.373	4.240	16.476	1.00	0.00
ATOM	206	N	SER	14	11.749	2.295	15.666	1.00	0.00
ATOM	207	H	SER	14	11.971	1.443	15.169	1.00	0.00
ATOM	208	CA	SER	14	10.356	2.480	16.166	1.00	0.00
ATOM	209	HA	SER	14	10.359	3.062	17.087	1.00	0.00
ATOM	210	CB	SER	14	9.533	3.229	15.116	1.00	0.00
ATOM	211	HB2	SER	14	9.950	4.225	14.970	1.00	0.00
ATOM	212	HB3	SER	14	9.561	2.682	14.173	1.00	0.00
ATOM	213	OG	SER	14	8.188	3.339	15.560	1.00	0.00
ATOM	214	HG	SER	14	7.671	3.808	14.901	1.00	0.00
ATOM	215	C	SER	14	9.726	1.110	16.426	1.00	0.00
ATOM	216	O	SER	14	9.815	0.210	15.616	1.00	0.00
ATOM	217	N	SER	15	9.090	0.945	17.555	1.00	0.00
ATOM	218	H	SER	15	9.013	1.687	18.236	1.00	0.00
ATOM	219	CA	SER	15	8.457	-0.367	17.866	1.00	0.00

ATOM	220	HA	SER	15	9.141	-1.183	17.631	1.00	0.00
ATOM	221	CB	SER	15	8.117	-0.428	19.357	1.00	0.00
ATOM	222	HB2	SER	15	7.780	-1.433	19.613	1.00	0.00
ATOM	223	HB3	SER	15	9.003	-0.183	19.943	1.00	0.00
ATOM	224	OG	SER	15	7.086	0.505	19.645	1.00	0.00
ATOM	225	HG	SER	15	6.873	0.467	20.580	1.00	0.00
ATOM	226	C	SER	15	7.177	-0.528	17.043	1.00	0.00
ATOM	227	O	SER	15	6.757	-1.627	16.741	1.00	0.00
ATOM	228	N	CYX	16	6.554	0.560	16.676	1.00	0.00
ATOM	229	H	CYX	16	6.896	1.477	16.923	1.00	0.00
ATOM	230	CA	CYX	16	5.304	0.465	15.870	1.00	0.00
ATOM	231	HA	CYX	16	4.543	-0.091	16.418	1.00	0.00
ATOM	232	CB	CYX	16	4.772	1.870	15.583	1.00	0.00
ATOM	233	HB2	CYX	16	4.795	2.461	16.498	1.00	0.00
ATOM	234	HB3	CYX	16	5.395	2.347	14.827	1.00	0.00
ATOM	235	SG	CYX	16	3.049	1.764	15.036	1.00	0.00
ATOM	236	C	CYX	16	5.605	-0.246	14.549	1.00	0.00
ATOM	237	O	CYX	16	4.735	-0.832	13.936	1.00	0.00
ATOM	238	N	GLU	17	6.831	-0.199	14.106	1.00	0.00
ATOM	239	H	GLU	17	7.559	0.286	14.610	1.00	0.00

ATOM	240	CA	GLU	17	7.187	-0.872	12.826	1.00	0.00
ATOM	241	HA	GLU	17	6.587	-0.473	12.008	1.00	0.00
ATOM	242	CB	GLU	17	8.664	-0.624	12.515	1.00	0.00
ATOM	243	HB2	GLU	17	9.255	-0.757	13.422	1.00	0.00
ATOM	244	HB3	GLU	17	9.000	-1.331	11.756	1.00	0.00
ATOM	245	CG	GLU	17	8.842	0.805	11.995	1.00	0.00
ATOM	246	HG2	GLU	17	8.216	0.952	11.115	1.00	0.00
ATOM	247	HG3	GLU	17	8.551	1.513	12.770	1.00	0.00
ATOM	248	CD	GLU	17	10.308	1.032	11.621	1.00	0.00
ATOM	249	OE1	GLU	17	11.079	0.094	11.729	1.00	0.00
ATOM	250	OE2	GLU	17	10.634	2.142	11.233	1.00	0.00
ATOM	251	C	GLU	17	6.937	-2.376	12.955	1.00	0.00
ATOM	252	O	GLU	17	6.321	-2.987	12.104	1.00	0.00
ATOM	253	N	ARG	18	7.410	-2.978	14.012	1.00	0.00
ATOM	254	H	ARG	18	7.922	-2.477	14.724	1.00	0.00
ATOM	255	CA	ARG	18	7.199	-4.443	14.193	1.00	0.00
ATOM	256	HA	ARG	18	7.780	-5.002	13.459	1.00	0.00
ATOM	257	CB	ARG	18	7.655	-4.856	15.594	1.00	0.00
ATOM	258	HB2	ARG	18	8.710	-4.612	15.721	1.00	0.00
ATOM	259	HB3	ARG	18	7.067	-4.323	16.341	1.00	0.00

ATOM	260	CG	ARG	18	7.457	-6.363	15.770	1.00	0.00
ATOM	261	HG2	ARG	18	6.409	-6.614	15.609	1.00	0.00
ATOM	262	HG3	ARG	18	8.073	-6.898	15.047	1.00	0.00
ATOM	263	CD	ARG	18	7.866	-6.769	17.188	1.00	0.00
ATOM	264	HD2	ARG	18	7.937	-7.854	17.264	1.00	0.00
ATOM	265	HD3	ARG	18	8.827	-6.324	17.445	1.00	0.00
ATOM	266	NE	ARG	18	6.842	-6.288	18.158	1.00	0.00
ATOM	267	HE	ARG	18	6.084	-5.687	17.869	1.00	0.00
ATOM	268	CZ	ARG	18	6.914	-6.641	19.413	1.00	0.00
ATOM	269	NH1	ARG	18	7.414	-5.819	20.295	1.00	0.00
ATOM	270	HH11	ARG	18	7.745	-4.911	20.003	1.00	0.00
ATOM	271	HH12	ARG	18	7.468	-6.096	21.265	1.00	0.00
ATOM	272	NH2	ARG	18	6.487	-7.817	19.784	1.00	0.00
ATOM	273	HH21	ARG	18	6.102	-8.451	19.098	1.00	0.00
ATOM	274	HH22	ARG	18	6.544	-8.089	20.755	1.00	0.00
ATOM	275	C	ARG	18	5.713	-4.768	14.025	1.00	0.00
ATOM	276	O	ARG	18	5.341	-5.894	13.758	1.00	0.00
ATOM	277	N	GLN	19	4.860	-3.793	14.182	1.00	0.00
ATOM	278	H	GLN	19	5.161	-2.856	14.406	1.00	0.00
ATOM	279	CA	GLN	19	3.401	-4.050	14.034	1.00	0.00

ATOM	280	HA	GLN	19	3.129	-4.982	14.530	1.00	0.00
ATOM	281	CB	GLN	19	2.614	-2.906	14.676	1.00	0.00
ATOM	282	HB2	GLN	19	3.011	-1.952	14.330	1.00	0.00
ATOM	283	HB3	GLN	19	1.564	-2.986	14.397	1.00	0.00
ATOM	284	CG	GLN	19	2.745	-2.990	16.198	1.00	0.00
ATOM	285	HG2	GLN	19	2.486	-3.991	16.544	1.00	0.00
ATOM	286	HG3	GLN	19	3.764	-2.753	16.504	1.00	0.00
ATOM	287	CD	GLN	19	1.793	-1.986	16.850	1.00	0.00
ATOM	288	OE1	GLN	19	1.314	-1.076	16.203	1.00	0.00
ATOM	289	NE2	GLN	19	1.496	-2.112	18.115	1.00	0.00
ATOM	290	HE21	GLN	19	0.868	-1.453	18.551	1.00	0.00
ATOM	291	HE22	GLN	19	1.896	-2.869	18.651	1.00	0.00
ATOM	292	C	GLN	19	3.045	-4.145	12.548	1.00	0.00
ATOM	293	O	GLN	19	2.014	-4.673	12.181	1.00	0.00
ATOM	294	N	VAL	20	3.889	-3.641	11.689	1.00	0.00
ATOM	295	H	VAL	20	4.748	-3.199	11.984	1.00	0.00
ATOM	296	CA	VAL	20	3.593	-3.707	10.230	1.00	0.00
ATOM	297	HA	VAL	20	2.555	-3.434	10.043	1.00	0.00
ATOM	298	CB	VAL	20	4.500	-2.730	9.477	1.00	0.00
ATOM	299	HB	VAL	20	4.508	-1.772	9.995	1.00	0.00

ATOM	300	CG1 VAL	20	5.923	-3.289	9.417	1.00	0.00
ATOM	301	HG11 VAL	20	5.916	-4.248	8.898	1.00	0.00
ATOM	302	HG12 VAL	20	6.566	-2.592	8.880	1.00	0.00
ATOM	303	HG13 VAL	20	6.303	-3.427	10.429	1.00	0.00
ATOM	304	CG2 VAL	20	3.970	-2.536	8.055	1.00	0.00
ATOM	305	HG21 VAL	20	2.958	-2.135	8.096	1.00	0.00
ATOM	306	HG22 VAL	20	4.615	-1.841	7.518	1.00	0.00
ATOM	307	HG23 VAL	20	3.959	-3.495	7.537	1.00	0.00
ATOM	308	C VAL	20	3.842	-5.131	9.726	1.00	0.00
ATOM	309	O VAL	20	3.187	-5.600	8.815	1.00	0.00
ATOM	310	N ASP	21	4.782	-5.823	10.311	1.00	0.00
ATOM	311	H ASP	21	5.331	-5.439	11.067	1.00	0.00
ATOM	312	CA ASP	21	5.070	-7.215	9.866	1.00	0.00
ATOM	313	HA ASP	21	5.483	-7.212	8.857	1.00	0.00
ATOM	314	CB ASP	21	6.091	-7.851	10.809	1.00	0.00
ATOM	315	HB2 ASP	21	5.781	-7.694	11.842	1.00	0.00
ATOM	316	HB3 ASP	21	6.155	-8.921	10.608	1.00	0.00
ATOM	317	CG ASP	21	7.462	-7.208	10.585	1.00	0.00
ATOM	318	OD1 ASP	21	7.581	-6.424	9.657	1.00	0.00
ATOM	319	OD2 ASP	21	8.367	-7.510	11.344	1.00	0.00



ATOM	320	C	ASP	21	3.778	-8.035	9.884	1.00	0.00
ATOM	321	O	ASP	21	3.596	-8.942	9.097	1.00	0.00
ATOM	322	N	ARG	22	2.880	-7.721	10.776	1.00	0.00
ATOM	323	H	ARG	22	3.025	-6.969	11.434	1.00	0.00
ATOM	324	CA	ARG	22	1.600	-8.482	10.843	1.00	0.00
ATOM	325	HA	ARG	22	1.787	-9.549	10.715	1.00	0.00
ATOM	326	CB	ARG	22	0.945	-8.260	12.209	1.00	0.00
ATOM	327	HB2	ARG	22	1.665	-8.479	12.998	1.00	0.00
ATOM	328	HB3	ARG	22	0.620	-7.224	12.292	1.00	0.00
ATOM	329	CG	ARG	22	-0.263	-9.186	12.351	1.00	0.00
ATOM	330	HG2	ARG	22	-0.937	-9.037	11.508	1.00	0.00
ATOM	331	HG3	ARG	22	0.073	-10.223	12.367	1.00	0.00
ATOM	332	CD	ARG	22	-0.999	-8.868	13.655	1.00	0.00
ATOM	333	HD2	ARG	22	-0.301	-8.869	14.492	1.00	0.00
ATOM	334	HD3	ARG	22	-1.483	-7.894	13.587	1.00	0.00
ATOM	335	NE	ARG	22	-2.042	-9.904	13.902	1.00	0.00
ATOM	336	HE	ARG	22	-2.167	-10.322	14.813	1.00	0.00
ATOM	337	CZ	ARG	22	-2.819	-10.291	12.927	1.00	0.00
ATOM	338	NH1	ARG	22	-4.053	-9.868	12.869	1.00	0.00
ATOM	339	HH11	ARG	22	-4.403	-9.242	13.580	1.00	0.00

ATOM	340	HH12	ARG	22	-4.652	-10.170	12.113	1.00	0.00
ATOM	341	NH2	ARG	22	-2.364	-11.101	12.011	1.00	0.00
ATOM	342	HH21	ARG	22	-1.409	-11.428	12.059	1.00	0.00
ATOM	343	HH22	ARG	22	-2.968	-11.398	11.258	1.00	0.00
ATOM	344	C	ARG	22	0.662	-7.995	9.740	1.00	0.00
ATOM	345	O	ARG	22	-0.292	-8.658	9.384	1.00	0.00
ATOM	346	N	VAL	23	0.924	-6.839	9.194	1.00	0.00
ATOM	347	H	VAL	23	1.715	-6.283	9.486	1.00	0.00
ATOM	348	CA	VAL	23	0.048	-6.308	8.112	1.00	0.00
ATOM	349	HA	VAL	23	-0.874	-5.909	8.533	1.00	0.00
ATOM	350	CB	VAL	23	0.776	-5.183	7.373	1.00	0.00
ATOM	351	HB	VAL	23	1.783	-5.510	7.113	1.00	0.00
ATOM	352	CG1	VAL	23	0.009	-4.832	6.096	1.00	0.00
ATOM	353	HG11	VAL	23	-0.998	-4.505	6.355	1.00	0.00
ATOM	354	HG12	VAL	23	0.527	-4.031	5.569	1.00	0.00
ATOM	355	HG13	VAL	23	-0.049	-5.711	5.453	1.00	0.00
ATOM	356	CG2	VAL	23	0.858	-3.950	8.275	1.00	0.00
ATOM	357	HG21	VAL	23	1.405	-4.201	9.184	1.00	0.00
ATOM	358	HG22	VAL	23	1.377	-3.149	7.749	1.00	0.00
ATOM	359	HG23	VAL	23	-0.148	-3.622	8.535	1.00	0.00

ATOM	360	C	VAL	23	-0.286	-7.431	7.129	1.00	0.00
ATOM	361	O	VAL	23	-1.324	-8.056	7.214	1.00	0.00
ATOM	362	N	ASN	24	0.587	-7.691	6.197	1.00	0.00
ATOM	363	H	ASN	24	1.452	-7.176	6.122	1.00	0.00
ATOM	364	CA	ASN	24	0.321	-8.772	5.208	1.00	0.00
ATOM	365	HA	ASN	24	1.091	-8.778	4.437	1.00	0.00
ATOM	366	CB	ASN	24	0.332	-10.126	5.920	1.00	0.00
ATOM	367	HB2	ASN	24	-0.437	-10.154	6.691	1.00	0.00
ATOM	368	HB3	ASN	24	0.159	-10.931	5.205	1.00	0.00
ATOM	369	CG	ASN	24	1.695	-10.344	6.581	1.00	0.00
ATOM	370	OD1	ASN	24	2.663	-9.697	6.231	1.00	0.00
ATOM	371	ND2	ASN	24	1.813	-11.234	7.528	1.00	0.00
ATOM	372	HD21	ASN	24	2.710	-11.383	7.968	1.00	0.00
ATOM	373	HD22	ASN	24	1.007	-11.770	7.816	1.00	0.00
ATOM	374	C	ASN	24	-1.048	-8.544	4.562	1.00	0.00
ATOM	375	O	ASN	24	-2.010	-9.218	4.870	1.00	0.00
ATOM	376	N	LEU	25	-1.142	-7.599	3.668	1.00	0.00
ATOM	377	H	LEU	25	-0.345	-7.037	3.406	1.00	0.00
ATOM	378	CA	LEU	25	-2.448	-7.328	3.003	1.00	0.00
ATOM	379	HA	LEU	25	-3.243	-7.899	3.483	1.00	0.00

ATOM	380	CB	LEU	25	-2.778	-5.838	3.118	1.00	0.00
ATOM	381	HB2	LEU	25	-1.886	-5.251	2.900	1.00	0.00
ATOM	382	HB3	LEU	25	-3.563	-5.584	2.406	1.00	0.00
ATOM	383	CG	LEU	25	-3.258	-5.529	4.538	1.00	0.00
ATOM	384	HG	LEU	25	-2.618	-6.041	5.257	1.00	0.00
ATOM	385	CD1	LEU	25	-3.195	-4.021	4.782	1.00	0.00
ATOM	386	HD11	LEU	25	-3.835	-3.510	4.063	1.00	0.00
ATOM	387	HD12	LEU	25	-3.537	-3.802	5.793	1.00	0.00
ATOM	388	HD13	LEU	25	-2.168	-3.676	4.663	1.00	0.00
ATOM	389	CD2	LEU	25	-4.701	-6.013	4.705	1.00	0.00
ATOM	390	HD21	LEU	25	-4.746	-7.089	4.532	1.00	0.00
ATOM	391	HD22	LEU	25	-5.043	-5.794	5.716	1.00	0.00
ATOM	392	HD23	LEU	25	-5.341	-5.503	3.986	1.00	0.00
ATOM	393	C	LEU	25	-2.356	-7.717	1.526	1.00	0.00
ATOM	394	O	LEU	25	-2.384	-6.876	0.649	1.00	0.00
ATOM	395	N	LYS	26	-2.247	-8.987	1.244	1.00	0.00
ATOM	396	H	LYS	26	-2.219	-9.688	1.971	1.00	0.00
ATOM	397	CA	LYS	26	-2.151	-9.435	-0.174	1.00	0.00
ATOM	398	HA	LYS	26	-1.362	-8.890	-0.692	1.00	0.00
ATOM	399	CB	LYS	26	-1.819	-10.928	-0.212	1.00	0.00

ATOM	400	HB2	LYS	26	-0.962	-11.127	0.431	1.00	0.00
ATOM	401	HB3	LYS	26	-2.677	-11.501	0.139	1.00	0.00
ATOM	402	CG	LYS	26	-1.485	-11.339	-1.648	1.00	0.00
ATOM	403	HG2	LYS	26	-2.052	-12.232	-1.912	1.00	0.00
ATOM	404	HG3	LYS	26	-1.746	-10.529	-2.328	1.00	0.00
ATOM	405	CD	LYS	26	0.012	-11.635	-1.759	1.00	0.00
ATOM	406	HD2	LYS	26	0.407	-11.180	-2.667	1.00	0.00
ATOM	407	HD3	LYS	26	0.529	-11.224	-0.892	1.00	0.00
ATOM	408	CE	LYS	26	0.231	-13.149	-1.812	1.00	0.00
ATOM	409	HE2	LYS	26	0.546	-13.506	-0.831	1.00	0.00
ATOM	410	HE3	LYS	26	-0.699	-13.642	-2.096	1.00	0.00
ATOM	411	NZ	LYS	26	1.286	-13.464	-2.816	1.00	0.00
ATOM	412	HZ1	LYS	26	2.148	-13.009	-2.553	1.00	0.00
ATOM	413	HZ2	LYS	26	1.430	-14.463	-2.851	1.00	0.00
ATOM	414	HZ3	LYS	26	0.995	-13.135	-3.725	1.00	0.00
ATOM	415	C	LYS	26	-3.478	-9.190	-0.904	1.00	0.00
ATOM	416	O	LYS	26	-3.489	-8.836	-2.066	1.00	0.00
ATOM	417	N	PRO	27	-4.623	-9.387	-0.222	1.00	0.00
ATOM	418	CD	PRO	27	-4.732	-9.812	1.188	1.00	0.00
ATOM	419	HD2	PRO	27	-4.043	-9.230	1.800	1.00	0.00

ATOM	420	HD3 PRO	27	-4.484	-10.871	1.271	1.00	0.00
ATOM	421	CG PRO	27	-6.171	-9.533	1.515	1.00	0.00
ATOM	422	HG2 PRO	27	-6.264	-8.525	1.917	1.00	0.00
ATOM	423	HG3 PRO	27	-6.522	-10.253	2.255	1.00	0.00
ATOM	424	CB PRO	27	-6.918	-9.679	0.235	1.00	0.00
ATOM	425	HB2 PRO	27	-7.792	-9.030	0.265	1.00	0.00
ATOM	426	HB3 PRO	27	-7.231	-10.700	0.013	1.00	0.00
ATOM	427	CA PRO	27	-5.944	-9.189	-0.835	1.00	0.00
ATOM	428	HA PRO	27	-5.988	-9.777	-1.752	1.00	0.00
ATOM	429	C PRO	27	-6.205	-7.715	-1.161	1.00	0.00
ATOM	430	O PRO	27	-6.752	-7.388	-2.196	1.00	0.00
ATOM	431	N CYX	28	-5.809	-6.822	-0.296	1.00	0.00
ATOM	432	H CYX	28	-5.347	-7.080	0.565	1.00	0.00
ATOM	433	CA CYX	28	-6.030	-5.375	-0.574	1.00	0.00
ATOM	434	HA CYX	28	-7.084	-5.186	-0.774	1.00	0.00
ATOM	435	CB CYX	28	-5.607	-4.549	0.643	1.00	0.00
ATOM	436	HB2 CYX	28	-4.946	-5.144	1.274	1.00	0.00
ATOM	437	HB3 CYX	28	-5.082	-3.654	0.310	1.00	0.00
ATOM	438	SG CYX	28	-7.067	-4.145	1.634	1.00	0.00
ATOM	439	C CYX	28	-5.184	-4.977	-1.784	1.00	0.00

ATOM	440	O	CYX	28	-5.688	-4.492	-2.782	1.00	0.00
ATOM	441	N	GLU	29	-3.898	-5.189	-1.711	1.00	0.00
ATOM	442	H	GLU	29	-3.471	-5.595	-0.890	1.00	0.00
ATOM	443	CA	GLU	29	-3.023	-4.838	-2.859	1.00	0.00
ATOM	444	HA	GLU	29	-2.971	-3.756	-2.976	1.00	0.00
ATOM	445	CB	GLU	29	-1.612	-5.371	-2.611	1.00	0.00
ATOM	446	HB2	GLU	29	-1.373	-5.289	-1.551	1.00	0.00
ATOM	447	HB3	GLU	29	-1.559	-6.417	-2.915	1.00	0.00
ATOM	448	CG	GLU	29	-0.608	-4.554	-3.424	1.00	0.00
ATOM	449	HG2	GLU	29	-0.882	-4.586	-4.479	1.00	0.00
ATOM	450	HG3	GLU	29	-0.617	-3.521	-3.078	1.00	0.00
ATOM	451	CD	GLU	29	0.794	-5.139	-3.244	1.00	0.00
ATOM	452	OE1	GLU	29	0.925	-6.089	-2.488	1.00	0.00
ATOM	453	OE2	GLU	29	1.712	-4.630	-3.864	1.00	0.00
ATOM	454	C	GLU	29	-3.592	-5.476	-4.126	1.00	0.00
ATOM	455	O	GLU	29	-3.500	-4.930	-5.208	1.00	0.00
ATOM	456	N	GLN	30	-4.176	-6.636	-4.001	1.00	0.00
ATOM	457	H	GLN	30	-4.250	-7.099	-3.106	1.00	0.00
ATOM	458	CA	GLN	30	-4.748	-7.314	-5.195	1.00	0.00
ATOM	459	HA	GLN	30	-4.015	-7.341	-6.002	1.00	0.00

ATOM	460	CB	GLN	30	-5.128	-8.751	-4.833	1.00	0.00
ATOM	461	HB2	GLN	30	-5.547	-8.775	-3.827	1.00	0.00
ATOM	462	HB3	GLN	30	-5.867	-9.122	-5.543	1.00	0.00
ATOM	463	CG	GLN	30	-3.880	-9.637	-4.886	1.00	0.00
ATOM	464	HG2	GLN	30	-3.560	-9.777	-5.919	1.00	0.00
ATOM	465	HG3	GLN	30	-3.069	-9.186	-4.314	1.00	0.00
ATOM	466	CD	GLN	30	-4.200	-11.005	-4.284	1.00	0.00
ATOM	467	OE1	GLN	30	-5.297	-11.235	-3.814	1.00	0.00
ATOM	468	NE2	GLN	30	-3.281	-11.932	-4.276	1.00	0.00
ATOM	469	HE21	GLN	30	-3.485	-12.839	-3.880	1.00	0.00
ATOM	470	HE22	GLN	30	-2.369	-11.739	-4.666	1.00	0.00
ATOM	471	C	GLN	30	-5.992	-6.559	-5.670	1.00	0.00
ATOM	472	O	GLN	30	-6.368	-6.636	-6.823	1.00	0.00
ATOM	473	N	HID	31	-6.634	-5.825	-4.801	1.00	0.00
ATOM	474	H	HID	31	-6.333	-5.751	-3.840	1.00	0.00
ATOM	475	CA	HID	31	-7.844	-5.069	-5.222	1.00	0.00
ATOM	476	HA	HID	31	-8.457	-5.677	-5.887	1.00	0.00
ATOM	477	CB	HID	31	-8.674	-4.706	-3.986	1.00	0.00
ATOM	478	HB2	HID	31	-9.347	-5.514	-3.699	1.00	0.00
ATOM	479	HB3	HID	31	-8.049	-4.436	-3.135	1.00	0.00



ATOM	480	CG	HID	31	-9.538	-3.509	-4.283	1.00	0.00
ATOM	481	ND1	HID	31	-10.609	-3.569	-5.161	1.00	0.00
ATOM	482	HD1	HID	31	-10.916	-4.381	-5.678	1.00	0.00
ATOM	483	CE1	HID	31	-11.169	-2.346	-5.202	1.00	0.00
ATOM	484	HE1	HID	31	-12.034	-2.216	-5.853	1.00	0.00
ATOM	485	NE2	HID	31	-10.534	-1.483	-4.404	1.00	0.00
ATOM	486	CD2	HID	31	-9.503	-2.215	-3.822	1.00	0.00
ATOM	487	HD2	HID	31	-8.824	-1.735	-3.117	1.00	0.00
ATOM	488	C	HID	31	-7.391	-3.801	-5.937	1.00	0.00
ATOM	489	O	HID	31	-8.124	-3.203	-6.700	1.00	0.00
ATOM	490	N	ILE	32	-6.177	-3.393	-5.696	1.00	0.00
ATOM	491	H	ILE	32	-5.567	-3.887	-5.060	1.00	0.00
ATOM	492	CA	ILE	32	-5.658	-2.167	-6.362	1.00	0.00
ATOM	493	HA	ILE	32	-6.494	-1.512	-6.606	1.00	0.00
ATOM	494	CB	ILE	32	-4.688	-1.433	-5.430	1.00	0.00
ATOM	495	HB	ILE	32	-3.725	-1.311	-5.926	1.00	0.00
ATOM	496	CG2	ILE	32	-5.261	-0.061	-5.088	1.00	0.00
ATOM	497	HG21	ILE	32	-6.223	-0.183	-4.591	1.00	0.00
ATOM	498	HG22	ILE	32	-4.574	0.465	-4.425	1.00	0.00
ATOM	499	HG23	ILE	32	-5.395	0.515	-6.003	1.00	0.00

ATOM	500	CG1 ILE	32	-4.493	-2.236	-4.140	1.00	0.00
ATOM	501	HG12 ILE	32	-5.466	-2.479	-3.714	1.00	0.00
ATOM	502	HG13 ILE	32	-3.955	-3.158	-4.365	1.00	0.00
ATOM	503	CD1 ILE	32	-3.689	-1.409	-3.135	1.00	0.00
ATOM	504	HD11 ILE	32	-4.226	-0.488	-2.909	1.00	0.00
ATOM	505	HD12 ILE	32	-3.552	-1.983	-2.219	1.00	0.00
ATOM	506	HD13 ILE	32	-2.715	-1.167	-3.560	1.00	0.00
ATOM	507	C ILE	32	-4.930	-2.561	-7.646	1.00	0.00
ATOM	508	O ILE	32	-5.203	-2.040	-8.709	1.00	0.00
ATOM	509	N MET	33	-4.011	-3.482	-7.560	1.00	0.00
ATOM	510	H MET	33	-3.778	-3.922	-6.681	1.00	0.00
ATOM	511	CA MET	33	-3.274	-3.911	-8.781	1.00	0.00
ATOM	512	HA MET	33	-2.762	-3.061	-9.232	1.00	0.00
ATOM	513	CB MET	33	-2.231	-4.965	-8.403	1.00	0.00
ATOM	514	HB2 MET	33	-2.735	-5.864	-8.047	1.00	0.00
ATOM	515	HB3 MET	33	-1.628	-5.210	-9.277	1.00	0.00
ATOM	516	CG MET	33	-1.327	-4.416	-7.298	1.00	0.00
ATOM	517	HG2 MET	33	-0.927	-3.447	-7.596	1.00	0.00
ATOM	518	HG3 MET	33	-1.898	-4.305	-6.376	1.00	0.00
ATOM	519	SD MET	33	0.044	-5.563	-7.014	1.00	0.00

ATOM	520	CE	MET	33	1.175	-4.871	-8.245	1.00	0.00
ATOM	521	HE1	MET	33	1.384	-3.829	-8.003	1.00	0.00
ATOM	522	HE2	MET	33	2.107	-5.438	-8.242	1.00	0.00
ATOM	523	HE3	MET	33	0.718	-4.930	-9.233	1.00	0.00
ATOM	524	C	MET	33	-4.264	-4.506	-9.782	1.00	0.00
ATOM	525	O	MET	33	-4.170	-4.282	-10.971	1.00	0.00
ATOM	526	N	GLN	34	-5.214	-5.262	-9.307	1.00	0.00
ATOM	527	H	GLN	34	-5.297	-5.450	-8.318	1.00	0.00
ATOM	528	CA	GLN	34	-6.212	-5.875	-10.229	1.00	0.00
ATOM	529	HA	GLN	34	-5.708	-6.473	-10.989	1.00	0.00
ATOM	530	CB	GLN	34	-7.149	-6.785	-9.432	1.00	0.00
ATOM	531	HB2	GLN	34	-7.501	-6.258	-8.546	1.00	0.00
ATOM	532	HB3	GLN	34	-8.001	-7.062	-10.052	1.00	0.00
ATOM	533	CG	GLN	34	-6.396	-8.047	-9.008	1.00	0.00
ATOM	534	HG2	GLN	34	-6.115	-8.633	-9.883	1.00	0.00
ATOM	535	HG3	GLN	34	-5.500	-7.782	-8.446	1.00	0.00
ATOM	536	CD	GLN	34	-7.297	-8.903	-8.116	1.00	0.00
ATOM	537	OE1	GLN	34	-8.352	-8.467	-7.701	1.00	0.00
ATOM	538	NE2	GLN	34	-6.923	-10.113	-7.802	1.00	0.00
ATOM	539	HE21	GLN	34	-7.513	-10.684	-7.214	1.00	0.00

ATOM	540	HE22	GLN	34	-6.045	-10.474	-8.149	1.00	0.00
ATOM	541	C	GLN	34	-7.029	-4.776	-10.911	1.00	0.00
ATOM	542	O	GLN	34	-7.264	-4.817	-12.102	1.00	0.00
ATOM	543	N	ARG	35	-7.472	-3.798	-10.169	1.00	0.00
ATOM	544	H	ARG	35	-7.284	-3.756	-9.178	1.00	0.00
ATOM	545	CA	ARG	35	-8.281	-2.706	-10.783	1.00	0.00
ATOM	546	HA	ARG	35	-9.143	-3.121	-11.304	1.00	0.00
ATOM	547	CB	ARG	35	-8.779	-1.765	-9.686	1.00	0.00
ATOM	548	HB2	ARG	35	-7.998	-1.633	-8.937	1.00	0.00
ATOM	549	HB3	ARG	35	-9.030	-0.799	-10.122	1.00	0.00
ATOM	550	CG	ARG	35	-10.023	-2.366	-9.025	1.00	0.00
ATOM	551	HG2	ARG	35	-10.727	-2.684	-9.795	1.00	0.00
ATOM	552	HG3	ARG	35	-9.734	-3.226	-8.421	1.00	0.00
ATOM	553	CD	ARG	35	-10.684	-1.314	-8.132	1.00	0.00
ATOM	554	HD2	ARG	35	-11.094	-0.508	-8.739	1.00	0.00
ATOM	555	HD3	ARG	35	-11.481	-1.767	-7.543	1.00	0.00
ATOM	556	NE	ARG	35	-9.669	-0.743	-7.203	1.00	0.00
ATOM	557	HE	ARG	35	-8.821	-1.243	-6.976	1.00	0.00
ATOM	558	CZ	ARG	35	-9.866	0.427	-6.660	1.00	0.00
ATOM	559	NH1	ARG	35	-10.381	1.396	-7.367	1.00	0.00

ATOM	560	HH11	ARG	35	-10.626	1.236	-8.334	1.00	0.00
ATOM	561	HH12	ARG	35	-10.532	2.300	-6.944	1.00	0.00
ATOM	562	NH2	ARG	35	-9.546	0.629	-5.412	1.00	0.00
ATOM	563	HH21	ARG	35	-9.146	-0.123	-4.869	1.00	0.00
ATOM	564	HH22	ARG	35	-9.700	1.535	-4.995	1.00	0.00
ATOM	565	C	ARG	35	-7.423	-1.919	-11.777	1.00	0.00
ATOM	566	O	ARG	35	-7.781	-1.757	-12.926	1.00	0.00
ATOM	567	N	ILE	36	-6.298	-1.424	-11.343	1.00	0.00
ATOM	568	H	ILE	36	-5.995	-1.552	-10.388	1.00	0.00
ATOM	569	CA	ILE	36	-5.424	-0.642	-12.263	1.00	0.00
ATOM	570	HA	ILE	36	-5.998	0.164	-12.719	1.00	0.00
ATOM	571	CB	ILE	36	-4.256	-0.051	-11.471	1.00	0.00
ATOM	572	HB	ILE	36	-3.622	0.533	-12.138	1.00	0.00
ATOM	573	CG2	ILE	36	-4.800	0.853	-10.362	1.00	0.00
ATOM	574	HG21	ILE	36	-5.433	0.269	-9.695	1.00	0.00
ATOM	575	HG22	ILE	36	-3.969	1.275	-9.796	1.00	0.00
ATOM	576	HG23	ILE	36	-5.385	1.659	-10.804	1.00	0.00
ATOM	577	CG1	ILE	36	-3.433	-1.185	-10.854	1.00	0.00
ATOM	578	HG12	ILE	36	-4.105	-1.943	-10.452	1.00	0.00
ATOM	579	HG13	ILE	36	-2.799	-1.632	-11.621	1.00	0.00

ATOM	580	CD1	ILE	36	-2.557	-0.631	-9.728	1.00	0.00
ATOM	581	HD11	ILE	36	-3.189	-0.185	-8.961	1.00	0.00
ATOM	582	HD12	ILE	36	-1.972	-1.440	-9.290	1.00	0.00
ATOM	583	HD13	ILE	36	-1.884	0.126	-10.130	1.00	0.00
ATOM	584	C	ILE	36	-4.883	-1.552	-13.368	1.00	0.00
ATOM	585	O	ILE	36	-4.368	-1.090	-14.366	1.00	0.00
ATOM	586	N	MET	37	-4.995	-2.842	-13.202	1.00	0.00
ATOM	587	H	MET	37	-5.419	-3.240	-12.376	1.00	0.00
ATOM	588	CA	MET	37	-4.483	-3.771	-14.251	1.00	0.00
ATOM	589	HA	MET	37	-3.832	-3.237	-14.943	1.00	0.00
ATOM	590	CB	MET	37	-3.680	-4.895	-13.594	1.00	0.00
ATOM	591	HB2	MET	37	-4.247	-5.309	-12.760	1.00	0.00
ATOM	592	HB3	MET	37	-3.485	-5.680	-14.326	1.00	0.00
ATOM	593	CG	MET	37	-2.351	-4.337	-13.079	1.00	0.00
ATOM	594	HG2	MET	37	-1.935	-3.643	-13.809	1.00	0.00
ATOM	595	HG3	MET	37	-2.510	-3.818	-12.134	1.00	0.00
ATOM	596	SD	MET	37	-1.186	-5.697	-12.820	1.00	0.00
ATOM	597	CE	MET	37	-2.181	-6.626	-11.628	1.00	0.00
ATOM	598	HE1	MET	37	-3.128	-6.909	-12.087	1.00	0.00
ATOM	599	HE2	MET	37	-1.642	-7.525	-11.326	1.00	0.00

ATOM	600	HE3	MET	37	-2.372	-6.006	-10.752	1.00	0.00
ATOM	601	C	MET	37	-5.661	-4.367	-15.023	1.00	0.00
ATOM	602	O	MET	37	-5.510	-4.847	-16.130	1.00	0.00
ATOM	603	N	GLY	38	-6.834	-4.342	-14.452	1.00	0.00
ATOM	604	H	GLY	38	-6.968	-3.946	-13.533	1.00	0.00
ATOM	605	CA	GLY	38	-8.018	-4.908	-15.157	1.00	0.00
ATOM	606	HA2	GLY	38	-7.809	-5.929	-15.479	1.00	0.00
ATOM	607	HA3	GLY	38	-8.883	-4.907	-14.495	1.00	0.00
ATOM	608	C	GLY	38	-8.330	-4.052	-16.387	1.00	0.00
ATOM	609	O	GLY	38	-8.909	-4.518	-17.349	1.00	0.00
ATOM	610	N	GLU	39	-7.951	-2.804	-16.362	1.00	0.00
ATOM	611	H	GLU	39	-7.471	-2.411	-15.565	1.00	0.00
ATOM	612	CA	GLU	39	-8.225	-1.919	-17.529	1.00	0.00
ATOM	613	HA	GLU	39	-9.293	-1.901	-17.747	1.00	0.00
ATOM	614	CB	GLU	39	-7.766	-0.495	-17.209	1.00	0.00
ATOM	615	HB2	GLU	39	-8.227	-0.165	-16.278	1.00	0.00
ATOM	616	HB3	GLU	39	-6.681	-0.478	-17.103	1.00	0.00
ATOM	617	CG	GLU	39	-8.182	0.442	-18.344	1.00	0.00
ATOM	618	HG2	GLU	39	-7.805	0.055	-19.291	1.00	0.00
ATOM	619	HG3	GLU	39	-9.269	0.504	-18.384	1.00	0.00

ATOM	620	CD	GLU	39	-7.601	1.835	-18.095	1.00	0.00
ATOM	621	OE1	GLU	39	-6.890	1.992	-17.115	1.00	0.00
ATOM	622	OE2	GLU	39	-7.876	2.721	-18.887	1.00	0.00
ATOM	623	C	GLU	39	-7.467	-2.438	-18.752	1.00	0.00
ATOM	624	O	GLU	39	-7.851	-2.199	-19.880	1.00	0.00
ATOM	625	N	GLN	40	-6.391	-3.145	-18.539	1.00	0.00
ATOM	626	H	GLN	40	-6.063	-3.347	-17.605	1.00	0.00
ATOM	627	CA	GLN	40	-5.611	-3.678	-19.691	1.00	0.00
ATOM	628	HA	GLN	40	-5.337	-2.870	-20.369	1.00	0.00
ATOM	629	CB	GLN	40	-4.331	-4.341	-19.178	1.00	0.00
ATOM	630	HB2	GLN	40	-4.580	-5.051	-18.389	1.00	0.00
ATOM	631	HB3	GLN	40	-3.840	-4.868	-19.997	1.00	0.00
ATOM	632	CG	GLN	40	-3.389	-3.271	-18.623	1.00	0.00
ATOM	633	HG2	GLN	40	-3.132	-2.552	-19.401	1.00	0.00
ATOM	634	HG3	GLN	40	-3.859	-2.751	-17.789	1.00	0.00
ATOM	635	CD	GLN	40	-2.103	-3.932	-18.124	1.00	0.00
ATOM	636	OE1	GLN	40	-2.041	-5.138	-17.985	1.00	0.00
ATOM	637	NE2	GLN	40	-1.065	-3.190	-17.848	1.00	0.00
ATOM	638	HE21	GLN	40	-0.213	-3.622	-17.518	1.00	0.00
ATOM	639	HE22	GLN	40	-1.118	-2.189	-17.966	1.00	0.00



ATOM	640	C	GLN	40	-6.455	-4.709	-20.442	1.00	0.00
ATOM	641	O	GLN	40	-6.352	-4.854	-21.643	1.00	0.00
ATOM	642	N	GLU	41	-7.290	-5.427	-19.741	1.00	0.00
ATOM	643	H	GLU	41	-7.379	-5.315	-18.741	1.00	0.00
ATOM	644	CA	GLU	41	-8.142	-6.447	-20.416	1.00	0.00
ATOM	645	HA	GLU	41	-7.520	-7.218	-20.872	1.00	0.00
ATOM	646	CB	GLU	41	-9.061	-7.106	-19.385	1.00	0.00
ATOM	647	HB2	GLU	41	-9.672	-6.344	-18.903	1.00	0.00
ATOM	648	HB3	GLU	41	-9.708	-7.828	-19.884	1.00	0.00
ATOM	649	CG	GLU	41	-8.215	-7.823	-18.331	1.00	0.00
ATOM	650	HG2	GLU	41	-7.581	-8.566	-18.816	1.00	0.00
ATOM	651	HG3	GLU	41	-7.590	-7.097	-17.811	1.00	0.00
ATOM	652	CD	GLU	41	-9.135	-8.517	-17.325	1.00	0.00
ATOM	653	OE1	GLU	41	-10.330	-8.284	-17.387	1.00	0.00
ATOM	654	OE2	GLU	41	-8.628	-9.270	-16.511	1.00	0.00
ATOM	655	C	GLU	41	-8.987	-5.770	-21.497	1.00	0.00
ATOM	656	O	GLU	41	-9.490	-4.681	-21.311	1.00	0.00
ATOM	657	N	GLN	42	-9.147	-6.408	-22.624	1.00	0.00
ATOM	658	H	GLN	42	-8.730	-7.314	-22.787	1.00	0.00
ATOM	659	CA	GLN	42	-9.960	-5.799	-23.713	1.00	0.00

ATOM	660	HA	GLN	42	-9.560	-4.822	-23.983	1.00	0.00
ATOM	661	CB	GLN	42	-9.917	-6.703	-24.947	1.00	0.00
ATOM	662	HB2	GLN	42	-10.262	-7.702	-24.679	1.00	0.00
ATOM	663	HB3	GLN	42	-10.563	-6.292	-25.722	1.00	0.00
ATOM	664	CG	GLN	42	-8.482	-6.783	-25.470	1.00	0.00
ATOM	665	HG2	GLN	42	-7.828	-7.225	-24.718	1.00	0.00
ATOM	666	HG3	GLN	42	-8.444	-7.382	-26.380	1.00	0.00
ATOM	667	CD	GLN	42	-7.977	-5.374	-25.790	1.00	0.00
ATOM	668	OE1	GLN	42	-8.628	-4.627	-26.492	1.00	0.00
ATOM	669	NE2	GLN	42	-6.835	-4.977	-25.300	1.00	0.00
ATOM	670	HE21	GLN	42	-6.495	-4.049	-25.507	1.00	0.00
ATOM	671	HE22	GLN	42	-6.295	-5.600	-24.716	1.00	0.00
ATOM	672	C	GLN	42	-11.407	-5.642	-23.243	1.00	0.00
ATOM	673	O	GLN	42	-12.078	-4.686	-23.575	1.00	0.00
ATOM	674	N	TYR	43	-11.894	-6.575	-22.470	1.00	0.00
ATOM	675	H	TYR	43	-11.342	-7.373	-22.188	1.00	0.00
ATOM	676	CA	TYR	43	-13.298	-6.478	-21.979	1.00	0.00
ATOM	677	HA	TYR	43	-13.782	-5.593	-22.392	1.00	0.00
ATOM	678	CB	TYR	43	-14.082	-7.716	-22.422	1.00	0.00
ATOM	679	HB2	TYR	43	-13.620	-8.608	-21.998	1.00	0.00

ATOM	680	HB3	TYR	43	-15.112	-7.641	-22.074	1.00	0.00
ATOM	681	CG	TYR	43	-14.066	-7.809	-23.929	1.00	0.00
ATOM	682	CD1	TYR	43	-14.941	-7.022	-24.688	1.00	0.00
ATOM	683	HD1	TYR	43	-15.632	-6.342	-24.192	1.00	0.00
ATOM	684	CE1	TYR	43	-14.927	-7.110	-26.085	1.00	0.00
ATOM	685	HE1	TYR	43	-15.608	-6.498	-26.676	1.00	0.00
ATOM	686	CZ	TYR	43	-14.040	-7.985	-26.723	1.00	0.00
ATOM	687	OH	TYR	43	-14.027	-8.071	-28.101	1.00	0.00
ATOM	688	HH	TYR	43	-14.665	-7.489	-28.519	1.00	0.00
ATOM	689	CE2	TYR	43	-13.165	-8.771	-25.964	1.00	0.00
ATOM	690	HE2	TYR	43	-12.473	-9.452	-26.460	1.00	0.00
ATOM	691	CD2	TYR	43	-13.179	-8.683	-24.568	1.00	0.00
ATOM	692	HD2	TYR	43	-12.498	-9.296	-23.977	1.00	0.00
ATOM	693	C	TYR	43	-13.298	-6.397	-20.451	1.00	0.00
ATOM	694	O	TYR	43	-12.351	-6.789	-19.799	1.00	0.00
ATOM	695	N	ASP	44	-14.354	-5.891	-19.875	1.00	0.00
ATOM	696	H	ASP	44	-15.145	-5.564	-20.410	1.00	0.00
ATOM	697	CA	ASP	44	-14.413	-5.785	-18.390	1.00	0.00
ATOM	698	HA	ASP	44	-14.419	-6.778	-17.941	1.00	0.00
ATOM	699	CB	ASP	44	-13.185	-5.026	-17.881	1.00	0.00

ATOM	700	HB2	ASP	44	-13.310	-4.802	-16.822	1.00	0.00
ATOM	701	HB3	ASP	44	-12.294	-5.639	-18.019	1.00	0.00
ATOM	702	CG	ASP	44	-13.032	-3.720	-18.664	1.00	0.00
ATOM	703	OD1	ASP	44	-13.748	-3.547	-19.636	1.00	0.00
ATOM	704	OD2	ASP	44	-12.199	-2.917	-18.277	1.00	0.00
ATOM	705	C	ASP	44	-15.682	-5.033	-17.983	1.00	0.00
ATOM	706	O	ASP	44	-16.389	-5.430	-17.079	1.00	0.00
ATOM	707	N	SER	45	-15.977	-3.947	-18.645	1.00	0.00
ATOM	708	H	SER	45	-15.394	-3.609	-19.397	1.00	0.00
ATOM	709	CA	SER	45	-17.201	-3.172	-18.297	1.00	0.00
ATOM	710	HA	SER	45	-17.079	-2.686	-17.329	1.00	0.00
ATOM	711	CB	SER	45	-17.440	-2.096	-19.358	1.00	0.00
ATOM	712	HB2	SER	45	-18.246	-1.438	-19.034	1.00	0.00
ATOM	713	HB3	SER	45	-16.529	-1.514	-19.496	1.00	0.00
ATOM	714	OG	SER	45	-17.798	-2.713	-20.586	1.00	0.00
ATOM	715	HG	SER	45	-17.948	-2.038	-21.252	1.00	0.00
ATOM	716	C	SER	45	-18.404	-4.114	-18.245	1.00	0.00
ATOM	717	O	SER	45	-19.302	-3.947	-17.444	1.00	0.00
ATOM	718	N	TYR	46	-18.431	-5.104	-19.096	1.00	0.00
ATOM	719	H	TYR	46	-17.687	-5.250	-19.764	1.00	0.00

ATOM	720	CA	TYR	46	-19.577	-6.055	-19.097	1.00	0.00
ATOM	721	HA	TYR	46	-20.510	-5.523	-19.283	1.00	0.00
ATOM	722	CB	TYR	46	-19.377	-7.093	-20.203	1.00	0.00
ATOM	723	HB2	TYR	46	-18.411	-7.583	-20.075	1.00	0.00
ATOM	724	HB3	TYR	46	-20.171	-7.838	-20.150	1.00	0.00
ATOM	725	CG	TYR	46	-19.419	-6.408	-21.548	1.00	0.00
ATOM	726	CD1	TYR	46	-20.611	-5.834	-22.004	1.00	0.00
ATOM	727	HD1	TYR	46	-21.509	-5.883	-21.388	1.00	0.00
ATOM	728	CE1	TYR	46	-20.651	-5.198	-23.251	1.00	0.00
ATOM	729	HE1	TYR	46	-21.579	-4.752	-23.606	1.00	0.00
ATOM	730	CZ	TYR	46	-19.497	-5.135	-24.041	1.00	0.00
ATOM	731	OH	TYR	46	-19.536	-4.509	-25.270	1.00	0.00
ATOM	732	HH	TYR	46	-20.402	-4.154	-25.483	1.00	0.00
ATOM	733	CE2	TYR	46	-18.304	-5.708	-23.585	1.00	0.00
ATOM	734	HE2	TYR	46	-17.406	-5.659	-24.201	1.00	0.00
ATOM	735	CD2	TYR	46	-18.264	-6.345	-22.338	1.00	0.00
ATOM	736	HD2	TYR	46	-17.335	-6.791	-21.983	1.00	0.00
ATOM	737	C	TYR	46	-19.654	-6.763	-17.742	1.00	0.00
ATOM	738	O	TYR	46	-20.719	-6.942	-17.185	1.00	0.00
ATOM	739	N	ASP	47	-18.534	-7.168	-17.208	1.00	0.00

ATOM	740	H	ASP	47	-17.644	-7.023	-17.664	1.00	0.00
ATOM	741	CA	ASP	47	-18.547	-7.864	-15.891	1.00	0.00
ATOM	742	HA	ASP	47	-19.558	-8.188	-15.644	1.00	0.00
ATOM	743	CB	ASP	47	-17.642	-9.096	-15.956	1.00	0.00
ATOM	744	HB2	ASP	47	-16.648	-8.804	-16.296	1.00	0.00
ATOM	745	HB3	ASP	47	-17.569	-9.545	-14.965	1.00	0.00
ATOM	746	CG	ASP	47	-18.236	-10.113	-16.933	1.00	0.00
ATOM	747	OD1	ASP	47	-19.396	-9.964	-17.280	1.00	0.00
ATOM	748	OD2	ASP	47	-17.520	-11.022	-17.320	1.00	0.00
ATOM	749	C	ASP	47	-18.035	-6.914	-14.806	1.00	0.00
ATOM	750	O	ASP	47	-16.912	-6.450	-14.853	1.00	0.00
ATOM	751	N	ILE	48	-18.848	-6.619	-13.829	1.00	0.00
ATOM	752	H	ILE	48	-19.782	-7.001	-13.782	1.00	0.00
ATOM	753	CA	ILE	48	-18.406	-5.698	-12.744	1.00	0.00
ATOM	754	HA	ILE	48	-18.158	-4.726	-13.170	1.00	0.00
ATOM	755	CB	ILE	48	-19.534	-5.535	-11.723	1.00	0.00
ATOM	756	HB	ILE	48	-19.770	-6.505	-11.284	1.00	0.00
ATOM	757	CG2	ILE	48	-19.089	-4.572	-10.621	1.00	0.00
ATOM	758	HG21	ILE	48	-18.852	-3.603	-11.059	1.00	0.00
ATOM	759	HG22	ILE	48	-19.892	-4.456	-9.893	1.00	0.00

ATOM	760	HG23	ILE	48	-18.204	-4.972	-10.124	1.00	0.00
ATOM	761	CG1	ILE	48	-20.776	-4.974	-12.419	1.00	0.00
ATOM	762	HG12	ILE	48	-20.576	-3.957	-12.756	1.00	0.00
ATOM	763	HG13	ILE	48	-21.025	-5.598	-13.278	1.00	0.00
ATOM	764	CD1	ILE	48	-21.950	-4.965	-11.438	1.00	0.00
ATOM	765	HD11	ILE	48	-21.702	-4.341	-10.579	1.00	0.00
ATOM	766	HD12	ILE	48	-22.835	-4.566	-11.933	1.00	0.00
ATOM	767	HD13	ILE	48	-22.150	-5.983	-11.101	1.00	0.00
ATOM	768	C	ILE	48	-17.173	-6.282	-12.053	1.00	0.00
ATOM	769	O	ILE	48	-16.218	-5.586	-11.773	1.00	0.00
ATOM	770	N	ARG	49	-17.186	-7.558	-11.774	1.00	0.00
ATOM	771	H	ARG	49	-17.976	-8.144	-12.004	1.00	0.00
ATOM	772	CA	ARG	49	-16.015	-8.185	-11.101	1.00	0.00
ATOM	773	HA	ARG	49	-15.155	-7.516	-11.136	1.00	0.00
ATOM	774	CB	ARG	49	-16.357	-8.465	-9.636	1.00	0.00
ATOM	775	HB2	ARG	49	-17.242	-9.100	-9.583	1.00	0.00
ATOM	776	HB3	ARG	49	-15.519	-8.971	-9.157	1.00	0.00
ATOM	777	CG	ARG	49	-16.634	-7.143	-8.916	1.00	0.00
ATOM	778	HG2	ARG	49	-17.392	-6.583	-9.463	1.00	0.00
ATOM	779	HG3	ARG	49	-16.990	-7.347	-7.906	1.00	0.00

ATOM	780	CD	ARG	49	-15.345	-6.321	-8.846	1.00	0.00
ATOM	781	HD2	ARG	49	-14.548	-6.907	-8.386	1.00	0.00
ATOM	782	HD3	ARG	49	-15.038	-6.014	-9.846	1.00	0.00
ATOM	783	NE	ARG	49	-15.578	-5.102	-8.022	1.00	0.00
ATOM	784	HE	ARG	49	-16.489	-4.888	-7.643	1.00	0.00
ATOM	785	CZ	ARG	49	-14.593	-4.283	-7.775	1.00	0.00
ATOM	786	NH1	ARG	49	-13.363	-4.654	-8.003	1.00	0.00
ATOM	787	HH11	ARG	49	-13.177	-5.576	-8.371	1.00	0.00
ATOM	788	HH12	ARG	49	-12.603	-4.018	-7.811	1.00	0.00
ATOM	789	NH2	ARG	49	-14.838	-3.092	-7.300	1.00	0.00
ATOM	790	HH21	ARG	49	-15.791	-2.808	-7.125	1.00	0.00
ATOM	791	HH22	ARG	49	-14.073	-2.461	-7.110	1.00	0.00
ATOM	792	C	ARG	49	-15.667	-9.500	-11.803	1.00	0.00
ATOM	793	O	ARG	49	-16.534	-10.218	-12.260	1.00	0.00
ATOM	794	N	SER	50	-14.405	-9.819	-11.894	1.00	0.00
ATOM	795	H	SER	50	-13.679	-9.227	-11.518	1.00	0.00
ATOM	796	CA	SER	50	-14.004	-11.086	-12.567	1.00	0.00
ATOM	797	HA	SER	50	-14.255	-11.048	-13.627	1.00	0.00
ATOM	798	CB	SER	50	-12.492	-11.279	-12.429	1.00	0.00
ATOM	799	HB2	SER	50	-12.235	-11.399	-11.377	1.00	0.00



ATOM	800	HB3	SER	50	-12.186	-12.169	-12.981	1.00	0.00
ATOM	801	OG	SER	50	-11.821	-10.144	-12.953	1.00	0.00
ATOM	802	HG	SER	50	-10.872	-10.265	-12.867	1.00	0.00
ATOM	803	C	SER	50	-14.731	-12.264	-11.914	1.00	0.00
ATOM	804	O	SER	50	-15.173	-13.179	-12.581	1.00	0.00
ATOM	805	N	THR	51	-14.858	-12.249	-10.616	1.00	0.00
ATOM	806	H	THR	51	-14.493	-11.493	-10.056	1.00	0.00
ATOM	807	CA	THR	51	-15.556	-13.368	-9.923	1.00	0.00
ATOM	808	HA	THR	51	-16.254	-13.860	-10.600	1.00	0.00
ATOM	809	CB	THR	51	-14.527	-14.397	-9.451	1.00	0.00
ATOM	810	HB	THR	51	-13.864	-14.653	-10.278	1.00	0.00
ATOM	811	CG2	THR	51	-13.706	-13.812	-8.302	1.00	0.00
ATOM	812	HG21	THR	51	-14.368	-13.557	-7.475	1.00	0.00
ATOM	813	HG22	THR	51	-12.973	-14.547	-7.967	1.00	0.00
ATOM	814	HG23	THR	51	-13.190	-12.915	-8.644	1.00	0.00
ATOM	815	OG1	THR	51	-15.198	-15.569	-9.008	1.00	0.00
ATOM	816	HG1	THR	51	-14.552	-16.215	-8.712	1.00	0.00
ATOM	817	C	THR	51	-16.322	-12.823	-8.716	1.00	0.00
ATOM	818	O	THR	51	-15.996	-11.782	-8.181	1.00	0.00
ATOM	819	N	ARG	52	-17.338	-13.518	-8.283	1.00	0.00

ATOM	820	H	ARG	52	-17.614	-14.385	-8.722	1.00	0.00
ATOM	821	CA	ARG	52	-18.124	-13.038	-7.111	1.00	0.00
ATOM	822	HA	ARG	52	-18.538	-12.051	-7.313	1.00	0.00
ATOM	823	CB	ARG	52	-19.277	-14.006	-6.839	1.00	0.00
ATOM	824	HB2	ARG	52	-18.883	-15.015	-6.710	1.00	0.00
ATOM	825	HB3	ARG	52	-19.801	-13.703	-5.933	1.00	0.00
ATOM	826	CG	ARG	52	-20.248	-13.986	-8.021	1.00	0.00
ATOM	827	HG2	ARG	52	-20.564	-12.961	-8.215	1.00	0.00
ATOM	828	HG3	ARG	52	-19.753	-14.388	-8.906	1.00	0.00
ATOM	829	CD	ARG	52	-21.473	-14.843	-7.689	1.00	0.00
ATOM	830	HD2	ARG	52	-22.005	-14.427	-6.834	1.00	0.00
ATOM	831	HD3	ARG	52	-22.144	-14.891	-8.546	1.00	0.00
ATOM	832	NE	ARG	52	-21.033	-16.225	-7.350	1.00	0.00
ATOM	833	HE	ARG	52	-20.116	-16.410	-6.969	1.00	0.00
ATOM	834	CZ	ARG	52	-21.841	-17.232	-7.544	1.00	0.00
ATOM	835	NH1	ARG	52	-22.245	-17.949	-6.531	1.00	0.00
ATOM	836	HH11	ARG	52	-21.930	-17.723	-5.598	1.00	0.00
ATOM	837	HH12	ARG	52	-22.870	-18.728	-6.685	1.00	0.00
ATOM	838	NH2	ARG	52	-22.244	-17.521	-8.750	1.00	0.00
ATOM	839	HH21	ARG	52	-21.929	-16.964	-9.531	1.00	0.00

ATOM	840	HH22	ARG	52	-22.869	-18.301	-8.897	1.00	0.00
ATOM	841	C	ARG	52	-17.217	-12.969	-5.881	1.00	0.00
ATOM	842	O	ARG	52	-17.380	-12.121	-5.026	1.00	0.00
ATOM	843	N	SER	53	-16.263	-13.853	-5.784	1.00	0.00
ATOM	844	H	SER	53	-16.123	-14.561	-6.491	1.00	0.00
ATOM	845	CA	SER	53	-15.347	-13.838	-4.609	1.00	0.00
ATOM	846	HA	SER	53	-15.910	-13.991	-3.689	1.00	0.00
ATOM	847	CB	SER	53	-14.321	-14.965	-4.746	1.00	0.00
ATOM	848	HB2	SER	53	-13.761	-15.064	-3.816	1.00	0.00
ATOM	849	HB3	SER	53	-14.835	-15.902	-4.961	1.00	0.00
ATOM	850	OG	SER	53	-13.426	-14.663	-5.807	1.00	0.00
ATOM	851	HG	SER	53	-12.782	-15.370	-5.893	1.00	0.00
ATOM	852	C	SER	53	-14.623	-12.492	-4.544	1.00	0.00
ATOM	853	O	SER	53	-14.124	-12.094	-3.509	1.00	0.00
ATOM	854	N	SER	54	-14.559	-11.787	-5.640	1.00	0.00
ATOM	855	H	SER	54	-14.971	-12.112	-6.503	1.00	0.00
ATOM	856	CA	SER	54	-13.866	-10.468	-5.640	1.00	0.00
ATOM	857	HA	SER	54	-12.799	-10.602	-5.460	1.00	0.00
ATOM	858	CB	SER	54	-14.052	-9.793	-7.000	1.00	0.00
ATOM	859	HB2	SER	54	-13.733	-10.473	-7.790	1.00	0.00

ATOM	860	HB3	SER	54	-15.103	-9.541	-7.140	1.00	0.00
ATOM	861	OG	SER	54	-13.271	-8.609	-7.052	1.00	0.00
ATOM	862	HG	SER	54	-13.388	-8.186	-7.906	1.00	0.00
ATOM	863	C	SER	54	-14.460	-9.580	-4.545	1.00	0.00
ATOM	864	O	SER	54	-13.777	-8.769	-3.952	1.00	0.00
ATOM	865	N	ASP	55	-15.727	-9.725	-4.273	1.00	0.00
ATOM	866	H	ASP	55	-16.301	-10.396	-4.763	1.00	0.00
ATOM	867	CA	ASP	55	-16.363	-8.888	-3.216	1.00	0.00
ATOM	868	HA	ASP	55	-16.261	-7.831	-3.459	1.00	0.00
ATOM	869	CB	ASP	55	-17.852	-9.228	-3.124	1.00	0.00
ATOM	870	HB2	ASP	55	-17.972	-10.305	-3.005	1.00	0.00
ATOM	871	HB3	ASP	55	-18.289	-8.718	-2.266	1.00	0.00
ATOM	872	CG	ASP	55	-18.560	-8.774	-4.402	1.00	0.00
ATOM	873	OD1	ASP	55	-17.947	-8.051	-5.170	1.00	0.00
ATOM	874	OD2	ASP	55	-19.703	-9.157	-4.591	1.00	0.00
ATOM	875	C	ASP	55	-15.692	-9.167	-1.870	1.00	0.00
ATOM	876	O	ASP	55	-15.690	-8.337	-0.983	1.00	0.00
ATOM	877	N	GLN	56	-15.121	-10.330	-1.711	1.00	0.00
ATOM	878	H	GLN	56	-15.118	-11.025	-2.444	1.00	0.00
ATOM	879	CA	GLN	56	-14.450	-10.660	-0.422	1.00	0.00

ATOM	880	HA	GLN	56	-15.152	-10.564	0.406	1.00	0.00
ATOM	881	CB	GLN	56	-13.942	-12.102	-0.467	1.00	0.00
ATOM	882	HB2	GLN	56	-13.224	-12.210	-1.281	1.00	0.00
ATOM	883	HB3	GLN	56	-13.457	-12.347	0.478	1.00	0.00
ATOM	884	CG	GLN	56	-15.119	-13.052	-0.697	1.00	0.00
ATOM	885	HG2	GLN	56	-15.959	-12.776	-0.060	1.00	0.00
ATOM	886	HG3	GLN	56	-15.430	-13.022	-1.741	1.00	0.00
ATOM	887	CD	GLN	56	-14.695	-14.482	-0.355	1.00	0.00
ATOM	888	OE1	GLN	56	-15.478	-15.253	0.162	1.00	0.00
ATOM	889	NE2	GLN	56	-13.479	-14.871	-0.625	1.00	0.00
ATOM	890	HE21	GLN	56	-13.192	-15.814	-0.402	1.00	0.00
ATOM	891	HE22	GLN	56	-12.830	-14.228	-1.056	1.00	0.00
ATOM	892	C	GLN	56	-13.270	-9.712	-0.201	1.00	0.00
ATOM	893	O	GLN	56	-12.967	-9.332	0.912	1.00	0.00
ATOM	894	N	GLN	57	-12.602	-9.327	-1.254	1.00	0.00
ATOM	895	H	GLN	57	-12.848	-9.640	-2.182	1.00	0.00
ATOM	896	CA	GLN	57	-11.441	-8.405	-1.104	1.00	0.00
ATOM	897	HA	GLN	57	-10.595	-8.931	-0.660	1.00	0.00
ATOM	898	CB	GLN	57	-11.024	-7.882	-2.480	1.00	0.00
ATOM	899	HB2	GLN	57	-11.870	-7.385	-2.953	1.00	0.00

ATOM	900	HB3	GLN	57	-10.203	-7.174	-2.368	1.00	0.00
ATOM	901	CG	GLN	57	-10.570	-9.054	-3.352	1.00	0.00
ATOM	902	HG2	GLN	57	-9.682	-9.521	-2.926	1.00	0.00
ATOM	903	HG3	GLN	57	-11.365	-9.795	-3.434	1.00	0.00
ATOM	904	CD	GLN	57	-10.230	-8.545	-4.754	1.00	0.00
ATOM	905	OE1	GLN	57	-10.624	-7.460	-5.132	1.00	0.00
ATOM	906	NE2	GLN	57	-9.508	-9.290	-5.547	1.00	0.00
ATOM	907	HE21	GLN	57	-9.279	-8.962	-6.474	1.00	0.00
ATOM	908	HE22	GLN	57	-9.181	-10.192	-5.230	1.00	0.00
ATOM	909	C	GLN	57	-11.836	-7.229	-0.207	1.00	0.00
ATOM	910	O	GLN	57	-11.107	-6.844	0.685	1.00	0.00
ATOM	911	N	GLN	58	-12.985	-6.654	-0.437	1.00	0.00
ATOM	912	H	GLN	58	-13.597	-6.969	-1.176	1.00	0.00
ATOM	913	CA	GLN	58	-13.424	-5.505	0.402	1.00	0.00
ATOM	914	HA	GLN	58	-12.842	-4.616	0.159	1.00	0.00
ATOM	915	CB	GLN	58	-14.902	-5.211	0.134	1.00	0.00
ATOM	916	HB2	GLN	58	-15.503	-6.072	0.428	1.00	0.00
ATOM	917	HB3	GLN	58	-15.210	-4.340	0.711	1.00	0.00
ATOM	918	CG	GLN	58	-15.105	-4.933	-1.357	1.00	0.00
ATOM	919	HG2	GLN	58	-14.322	-4.273	-1.731	1.00	0.00

ATOM	920	HG3	GLN	58	-15.092	-5.866	-1.921	1.00	0.00
ATOM	921	CD	GLN	58	-16.460	-4.253	-1.567	1.00	0.00
ATOM	922	OE1	GLN	58	-16.602	-3.411	-2.431	1.00	0.00
ATOM	923	NE2	GLN	58	-17.468	-4.586	-0.809	1.00	0.00
ATOM	924	HE21	GLN	58	-18.365	-4.142	-0.942	1.00	0.00
ATOM	925	HE22	GLN	58	-17.347	-5.288	-0.092	1.00	0.00
ATOM	926	C	GLN	58	-13.236	-5.852	1.880	1.00	0.00
ATOM	927	O	GLN	58	-12.804	-5.035	2.669	1.00	0.00
ATOM	928	N	ARG	59	-13.558	-7.058	2.262	1.00	0.00
ATOM	929	H	ARG	59	-13.918	-7.743	1.612	1.00	0.00
ATOM	930	CA	ARG	59	-13.400	-7.454	3.689	1.00	0.00
ATOM	931	HA	ARG	59	-14.136	-6.941	4.308	1.00	0.00
ATOM	932	CB	ARG	59	-13.613	-8.963	3.826	1.00	0.00
ATOM	933	HB2	ARG	59	-12.884	-9.492	3.211	1.00	0.00
ATOM	934	HB3	ARG	59	-13.488	-9.256	4.869	1.00	0.00
ATOM	935	CG	ARG	59	-15.026	-9.321	3.362	1.00	0.00
ATOM	936	HG2	ARG	59	-15.755	-8.767	3.953	1.00	0.00
ATOM	937	HG3	ARG	59	-15.140	-9.062	2.309	1.00	0.00
ATOM	938	CD	ARG	59	-15.257	-10.823	3.545	1.00	0.00
ATOM	939	HD2	ARG	59	-14.468	-11.390	3.051	1.00	0.00

ATOM	940	HD3	ARG	59	-15.276	-11.077	4.605	1.00	0.00
ATOM	941	NE	ARG	59	-16.566	-11.200	2.940	1.00	0.00
ATOM	942	HE	ARG	59	-16.659	-11.378	1.950	1.00	0.00
ATOM	943	CZ	ARG	59	-17.626	-11.308	3.695	1.00	0.00
ATOM	944	NH1	ARG	59	-17.925	-12.455	4.240	1.00	0.00
ATOM	945	HH11	ARG	59	-17.334	-13.258	4.076	1.00	0.00
ATOM	946	HH12	ARG	59	-18.745	-12.535	4.823	1.00	0.00
ATOM	947	NH2	ARG	59	-18.386	-10.267	3.904	1.00	0.00
ATOM	948	HH21	ARG	59	-18.151	-9.381	3.480	1.00	0.00
ATOM	949	HH22	ARG	59	-19.205	-10.353	4.488	1.00	0.00
ATOM	950	C	ARG	59	-11.995	-7.090	4.168	1.00	0.00
ATOM	951	O	ARG	59	-11.781	-6.797	5.327	1.00	0.00
ATOM	952	N	CYX	60	-11.035	-7.099	3.286	1.00	0.00
ATOM	953	H	CYX	60	-11.202	-7.339	2.319	1.00	0.00
ATOM	954	CA	CYX	60	-9.647	-6.747	3.696	1.00	0.00
ATOM	955	HA	CYX	60	-9.197	-7.567	4.257	1.00	0.00
ATOM	956	CB	CYX	60	-8.800	-6.486	2.447	1.00	0.00
ATOM	957	HB2	CYX	60	-8.549	-7.435	1.972	1.00	0.00
ATOM	958	HB3	CYX	60	-9.363	-5.868	1.748	1.00	0.00
ATOM	959	SG	CYX	60	-7.242	-5.694	2.919	1.00	0.00



ATOM	960	C	CYX	60	-9.689	-5.487	4.563	1.00	0.00
ATOM	961	O	CYX	60	-9.777	-5.556	5.774	1.00	0.00
ATOM	962	N	CYX	61	-9.627	-4.339	3.951	1.00	0.00
ATOM	963	H	CYX	61	-9.550	-4.276	2.946	1.00	0.00
ATOM	964	CA	CYX	61	-9.665	-3.074	4.738	1.00	0.00
ATOM	965	HA	CYX	61	-8.693	-2.887	5.196	1.00	0.00
ATOM	966	CB	CYX	61	-10.005	-1.903	3.815	1.00	0.00
ATOM	967	HB2	CYX	61	-10.083	-2.260	2.788	1.00	0.00
ATOM	968	HB3	CYX	61	-10.954	-1.464	4.120	1.00	0.00
ATOM	969	SG	CYX	61	-8.671	-0.680	3.878	1.00	0.00
ATOM	970	C	CYX	61	-10.729	-3.191	5.832	1.00	0.00
ATOM	971	O	CYX	61	-10.542	-2.740	6.944	1.00	0.00
ATOM	972	N	ASP	62	-11.843	-3.795	5.523	1.00	0.00
ATOM	973	H	ASP	62	-12.004	-4.173	4.600	1.00	0.00
ATOM	974	CA	ASP	62	-12.919	-3.941	6.545	1.00	0.00
ATOM	975	HA	ASP	62	-13.249	-2.961	6.888	1.00	0.00
ATOM	976	CB	ASP	62	-14.113	-4.671	5.929	1.00	0.00
ATOM	977	HB2	ASP	62	-13.782	-5.621	5.509	1.00	0.00
ATOM	978	HB3	ASP	62	-14.862	-4.856	6.698	1.00	0.00
ATOM	979	CG	ASP	62	-14.722	-3.809	4.821	1.00	0.00

ATOM	980	OD1	ASP	62	-14.368	-2.643	4.743	1.00	0.00
ATOM	981	OD2	ASP	62	-15.531	-4.327	4.069	1.00	0.00
ATOM	982	C	ASP	62	-12.388	-4.744	7.732	1.00	0.00
ATOM	983	O	ASP	62	-12.718	-4.480	8.872	1.00	0.00
ATOM	984	N	GLU	63	-11.564	-5.720	7.476	1.00	0.00
ATOM	985	H	GLU	63	-11.285	-5.947	6.532	1.00	0.00
ATOM	986	CA	GLU	63	-11.007	-6.535	8.591	1.00	0.00
ATOM	987	HA	GLU	63	-11.814	-6.967	9.183	1.00	0.00
ATOM	988	CB	GLU	63	-10.158	-7.672	8.019	1.00	0.00
ATOM	989	HB2	GLU	63	-9.554	-7.295	7.193	1.00	0.00
ATOM	990	HB3	GLU	63	-9.503	-8.064	8.797	1.00	0.00
ATOM	991	CG	GLU	63	-11.073	-8.788	7.513	1.00	0.00
ATOM	992	HG2	GLU	63	-11.750	-9.093	8.311	1.00	0.00
ATOM	993	HG3	GLU	63	-11.653	-8.426	6.664	1.00	0.00
ATOM	994	CD	GLU	63	-10.226	-9.985	7.078	1.00	0.00
ATOM	995	OE1	GLU	63	-9.014	-9.903	7.198	1.00	0.00
ATOM	996	OE2	GLU	63	-10.803	-10.964	6.632	1.00	0.00
ATOM	997	C	GLU	63	-10.139	-5.642	9.478	1.00	0.00
ATOM	998	O	GLU	63	-10.281	-5.620	10.684	1.00	0.00
ATOM	999	N	LEU	64	-9.240	-4.904	8.887	1.00	0.00

ATOM	1000	H	LEU	64	-9.119	-4.920	7.884	1.00	0.00
ATOM	1001	CA	LEU	64	-8.360	-4.010	9.690	1.00	0.00
ATOM	1002	HA	LEU	64	-7.885	-4.570	10.496	1.00	0.00
ATOM	1003	CB	LEU	64	-7.268	-3.428	8.789	1.00	0.00
ATOM	1004	HB2	LEU	64	-7.718	-2.762	8.054	1.00	0.00
ATOM	1005	HB3	LEU	64	-6.555	-2.870	9.397	1.00	0.00
ATOM	1006	CG	LEU	64	-6.542	-4.565	8.068	1.00	0.00
ATOM	1007	HG	LEU	64	-7.233	-5.068	7.391	1.00	0.00
ATOM	1008	CD1	LEU	64	-5.370	-3.993	7.267	1.00	0.00
ATOM	1009	HD11	LEU	64	-4.678	-3.491	7.943	1.00	0.00
ATOM	1010	HD12	LEU	64	-4.851	-4.803	6.753	1.00	0.00
ATOM	1011	HD13	LEU	64	-5.744	-3.279	6.534	1.00	0.00
ATOM	1012	CD2	LEU	64	-6.014	-5.568	9.095	1.00	0.00
ATOM	1013	HD21	LEU	64	-6.847	-5.976	9.667	1.00	0.00
ATOM	1014	HD22	LEU	64	-5.497	-6.378	8.580	1.00	0.00
ATOM	1015	HD23	LEU	64	-5.321	-5.067	9.770	1.00	0.00
ATOM	1016	C	LEU	64	-9.187	-2.867	10.287	1.00	0.00
ATOM	1017	O	LEU	64	-8.676	-2.030	11.003	1.00	0.00
ATOM	1018	N	ASN	65	-10.461	-2.823	10.001	1.00	0.00
ATOM	1019	H	ASN	65	-10.897	-3.515	9.409	1.00	0.00

ATOM	1020	CA	ASN	65	-11.311	-1.731	10.558	1.00	0.00
ATOM	1021	HA	ASN	65	-10.686	-0.919	10.930	1.00	0.00
ATOM	1022	CB	ASN	65	-12.223	-1.182	9.459	1.00	0.00
ATOM	1023	HB2	ASN	65	-12.909	-1.958	9.118	1.00	0.00
ATOM	1024	HB3	ASN	65	-12.793	-0.331	9.831	1.00	0.00
ATOM	1025	CG	ASN	65	-11.377	-0.722	8.273	1.00	0.00
ATOM	1026	OD1	ASN	65	-11.893	-0.735	7.074	1.00	0.00
ATOM	1027	ND2	ASN	65	-10.232	-0.347	8.436	1.00	0.00
ATOM	1028	HD21	ASN	65	-9.684	-0.046	7.642	1.00	0.00
ATOM	1029	HD22	ASN	65	-9.834	-0.339	9.364	1.00	0.00
ATOM	1030	C	ASN	65	-12.170	-2.281	11.699	1.00	0.00
ATOM	1031	O	ASN	65	-12.810	-1.540	12.417	1.00	0.00
ATOM	1032	N	GLU	66	-12.192	-3.575	11.871	1.00	0.00
ATOM	1033	H	GLU	66	-11.663	-4.201	11.280	1.00	0.00
ATOM	1034	CA	GLU	66	-13.016	-4.164	12.966	1.00	0.00
ATOM	1035	HA	GLU	66	-13.191	-3.426	13.748	1.00	0.00
ATOM	1036	CB	GLU	66	-14.367	-4.607	12.401	1.00	0.00
ATOM	1037	HB2	GLU	66	-14.216	-5.428	11.700	1.00	0.00
ATOM	1038	HB3	GLU	66	-15.010	-4.940	13.216	1.00	0.00
ATOM	1039	CG	GLU	66	-15.028	-3.433	11.677	1.00	0.00

ATOM	1040	HG2	GLU	66	-15.284	-2.659	12.400	1.00	0.00
ATOM	1041	HG3	GLU	66	-14.338	-3.026	10.938	1.00	0.00
ATOM	1042	CD	GLU	66	-16.299	-3.916	10.976	1.00	0.00
ATOM	1043	OE1	GLU	66	-16.487	-5.120	10.898	1.00	0.00
ATOM	1044	OE2	GLU	66	-17.062	-3.076	10.529	1.00	0.00
ATOM	1045	C	GLU	66	-12.296	-5.375	13.567	1.00	0.00
ATOM	1046	O	GLU	66	-12.417	-5.659	14.741	1.00	0.00
ATOM	1047	N	MET	67	-11.552	-6.094	12.772	1.00	0.00
ATOM	1048	H	MET	67	-11.444	-5.869	11.793	1.00	0.00
ATOM	1049	CA	MET	67	-10.834	-7.287	13.305	1.00	0.00
ATOM	1050	HA	MET	67	-11.499	-7.880	13.933	1.00	0.00
ATOM	1051	CB	MET	67	-10.358	-8.157	12.140	1.00	0.00
ATOM	1052	HB2	MET	67	-10.528	-7.633	11.200	1.00	0.00
ATOM	1053	HB3	MET	67	-9.294	-8.365	12.252	1.00	0.00
ATOM	1054	CG	MET	67	-11.137	-9.474	12.137	1.00	0.00
ATOM	1055	HG2	MET	67	-11.557	-9.657	13.126	1.00	0.00
ATOM	1056	HG3	MET	67	-11.942	-9.425	11.404	1.00	0.00
ATOM	1057	SD	MET	67	-10.022	-10.832	11.704	1.00	0.00
ATOM	1058	CE	MET	67	-9.912	-10.478	9.933	1.00	0.00
ATOM	1059	HE1	MET	67	-9.504	-9.478	9.786	1.00	0.00

ATOM	1060	HE2	MET	67	-9.259	-11.210	9.456	1.00	0.00
ATOM	1061	HE3	MET	67	-10.905	-10.534	9.488	1.00	0.00
ATOM	1062	C	MET	67	-9.629	-6.835	14.129	1.00	0.00
ATOM	1063	O	MET	67	-9.647	-6.865	15.344	1.00	0.00
ATOM	1064	N	GLU	68	-8.581	-6.419	13.478	1.00	0.00
ATOM	1065	H	GLU	68	-8.560	-6.395	12.468	1.00	0.00
ATOM	1066	CA	GLU	68	-7.371	-5.967	14.220	1.00	0.00
ATOM	1067	HA	GLU	68	-7.165	-6.639	15.054	1.00	0.00
ATOM	1068	CB	GLU	68	-6.165	-5.973	13.279	1.00	0.00
ATOM	1069	HB2	GLU	68	-6.256	-5.155	12.565	1.00	0.00
ATOM	1070	HB3	GLU	68	-5.250	-5.849	13.859	1.00	0.00
ATOM	1071	CG	GLU	68	-6.114	-7.303	12.525	1.00	0.00
ATOM	1072	HG2	GLU	68	-5.909	-8.112	13.227	1.00	0.00
ATOM	1073	HG3	GLU	68	-7.072	-7.481	12.037	1.00	0.00
ATOM	1074	CD	GLU	68	-5.007	-7.251	11.470	1.00	0.00
ATOM	1075	OE1	GLU	68	-4.438	-6.187	11.288	1.00	0.00
ATOM	1076	OE2	GLU	68	-4.746	-8.277	10.862	1.00	0.00
ATOM	1077	C	GLU	68	-7.594	-4.551	14.756	1.00	0.00
ATOM	1078	O	GLU	68	-6.712	-3.953	15.339	1.00	0.00
ATOM	1079	N	ASN	69	-8.766	-4.010	14.565	1.00	0.00

ATOM	1080	H	ASN	69	-9.506	-4.500	14.083	1.00	0.00
ATOM	1081	CA	ASN	69	-9.039	-2.632	15.065	1.00	0.00
ATOM	1082	HA	ASN	69	-9.963	-2.249	14.633	1.00	0.00
ATOM	1083	CB	ASN	69	-9.187	-2.663	16.588	1.00	0.00
ATOM	1084	HB2	ASN	69	-8.253	-2.982	17.052	1.00	0.00
ATOM	1085	HB3	ASN	69	-9.459	-1.676	16.961	1.00	0.00
ATOM	1086	CG	ASN	69	-10.287	-3.652	16.974	1.00	0.00
ATOM	1087	OD1	ASN	69	-11.222	-3.864	16.226	1.00	0.00
ATOM	1088	ND2	ASN	69	-10.216	-4.273	18.120	1.00	0.00
ATOM	1089	HD21	ASN	69	-10.939	-4.928	18.382	1.00	0.00
ATOM	1090	HD22	ASN	69	-9.438	-4.096	18.740	1.00	0.00
ATOM	1091	C	ASN	69	-7.876	-1.714	14.682	1.00	0.00
ATOM	1092	O	ASN	69	-7.619	-0.720	15.332	1.00	0.00
ATOM	1093	N	THR	70	-7.173	-2.041	13.634	1.00	0.00
ATOM	1094	H	THR	70	-7.384	-2.867	13.091	1.00	0.00
ATOM	1095	CA	THR	70	-6.025	-1.189	13.208	1.00	0.00
ATOM	1096	HA	THR	70	-5.158	-1.373	13.842	1.00	0.00
ATOM	1097	CB	THR	70	-5.652	-1.523	11.761	1.00	0.00
ATOM	1098	HB	THR	70	-4.643	-1.165	11.555	1.00	0.00
ATOM	1099	CG2	THR	70	-5.707	-3.038	11.553	1.00	0.00

ATOM	1100	HG21	THR	70	-6.715	-3.398	11.759	1.00	0.00
ATOM	1101	HG22	THR	70	-5.441	-3.274	10.522	1.00	0.00
ATOM	1102	HG23	THR	70	-5.003	-3.524	12.229	1.00	0.00
ATOM	1103	OG1	THR	70	-6.566	-0.888	10.878	1.00	0.00
ATOM	1104	HG1	THR	70	-6.332	-1.098	9.971	1.00	0.00
ATOM	1105	C	THR	70	-6.420	0.286	13.305	1.00	0.00
ATOM	1106	O	THR	70	-7.586	0.628	13.312	1.00	0.00
ATOM	1107	N	GLN	71	-5.457	1.165	13.381	1.00	0.00
ATOM	1108	H	GLN	71	-4.485	0.889	13.376	1.00	0.00
ATOM	1109	CA	GLN	71	-5.780	2.617	13.478	1.00	0.00
ATOM	1110	HA	GLN	71	-6.399	2.923	12.635	1.00	0.00
ATOM	1111	CB	GLN	71	-6.550	2.883	14.772	1.00	0.00
ATOM	1112	HB2	GLN	71	-7.490	2.332	14.756	1.00	0.00
ATOM	1113	HB3	GLN	71	-5.953	2.558	15.624	1.00	0.00
ATOM	1114	CG	GLN	71	-6.839	4.382	14.893	1.00	0.00
ATOM	1115	HG2	GLN	71	-5.927	4.956	14.730	1.00	0.00
ATOM	1116	HG3	GLN	71	-7.592	4.682	14.164	1.00	0.00
ATOM	1117	CD	GLN	71	-7.367	4.689	16.297	1.00	0.00
ATOM	1118	OE1	GLN	71	-6.766	4.309	17.282	1.00	0.00
ATOM	1119	NE2	GLN	71	-8.475	5.366	16.429	1.00	0.00



ATOM	1120	HE21	GLN	71	-8.830	5.572	17.352	1.00	0.00
ATOM	1121	HE22	GLN	71	-8.972	5.680	15.608	1.00	0.00
ATOM	1122	C	GLN	71	-4.483	3.430	13.480	1.00	0.00
ATOM	1123	O	GLN	71	-4.427	4.527	12.960	1.00	0.00
ATOM	1124	N	GLY	72	-3.441	2.904	14.065	1.00	0.00
ATOM	1125	H	GLY	72	-3.479	1.993	14.501	1.00	0.00
ATOM	1126	CA	GLY	72	-2.152	3.651	14.101	1.00	0.00
ATOM	1127	HA2	GLY	72	-2.310	4.679	13.775	1.00	0.00
ATOM	1128	HA3	GLY	72	-1.750	3.648	15.114	1.00	0.00
ATOM	1129	C	GLY	72	-1.144	2.981	13.164	1.00	0.00
ATOM	1130	O	GLY	72	-1.282	1.826	12.811	1.00	0.00
ATOM	1131	N	CYX	73	-0.130	3.696	12.761	1.00	0.00
ATOM	1132	H	CYX	73	-0.010	4.656	13.051	1.00	0.00
ATOM	1133	CA	CYX	73	0.886	3.102	11.848	1.00	0.00
ATOM	1134	HA	CYX	73	1.708	3.800	11.691	1.00	0.00
ATOM	1135	CB	CYX	73	1.445	1.821	12.470	1.00	0.00
ATOM	1136	HB2	CYX	73	0.840	1.540	13.332	1.00	0.00
ATOM	1137	HB3	CYX	73	1.421	1.018	11.733	1.00	0.00
ATOM	1138	SG	CYX	73	3.135	2.116	13.049	1.00	0.00
ATOM	1139	C	CYX	73	0.235	2.775	10.501	1.00	0.00

ATOM	1140	O	CYX	73	0.820	2.123	9.659	1.00	0.00
ATOM	1141	N	MET	74	-0.972	3.224	10.292	1.00	0.00
ATOM	1142	H	MET	74	-1.463	3.767	10.987	1.00	0.00
ATOM	1143	CA	MET	74	-1.660	2.939	9.002	1.00	0.00
ATOM	1144	HA	MET	74	-2.024	1.911	8.986	1.00	0.00
ATOM	1145	CB	MET	74	-2.854	3.884	8.841	1.00	0.00
ATOM	1146	HB2	MET	74	-2.497	4.909	8.744	1.00	0.00
ATOM	1147	HB3	MET	74	-3.418	3.610	7.949	1.00	0.00
ATOM	1148	CG	MET	74	-3.758	3.772	10.071	1.00	0.00
ATOM	1149	HG2	MET	74	-3.899	2.722	10.330	1.00	0.00
ATOM	1150	HG3	MET	74	-3.303	4.295	10.912	1.00	0.00
ATOM	1151	SD	MET	74	-5.367	4.517	9.707	1.00	0.00
ATOM	1152	CE	MET	74	-6.237	2.987	9.285	1.00	0.00
ATOM	1153	HE1	MET	74	-6.221	2.311	10.141	1.00	0.00
ATOM	1154	HE2	MET	74	-7.269	3.216	9.022	1.00	0.00
ATOM	1155	HE3	MET	74	-5.744	2.510	8.438	1.00	0.00
ATOM	1156	C	MET	74	-0.679	3.152	7.847	1.00	0.00
ATOM	1157	O	MET	74	-0.453	2.270	7.042	1.00	0.00
ATOM	1158	N	CYX	75	-0.093	4.315	7.760	1.00	0.00
ATOM	1159	H	CYX	75	-0.274	5.054	8.424	1.00	0.00

ATOM	1160	CA	CYX	75	0.873	4.578	6.657	1.00	0.00
ATOM	1161	HA	CYX	75	0.344	4.701	5.712	1.00	0.00
ATOM	1162	CB	CYX	75	1.649	5.863	6.954	1.00	0.00
ATOM	1163	HB2	CYX	75	0.956	6.641	7.272	1.00	0.00
ATOM	1164	HB3	CYX	75	2.373	5.675	7.747	1.00	0.00
ATOM	1165	SG	CYX	75	2.471	6.432	5.446	1.00	0.00
ATOM	1166	C	CYX	75	1.849	3.407	6.544	1.00	0.00
ATOM	1167	O	CYX	75	2.058	2.861	5.478	1.00	0.00
ATOM	1168	N	GLU	76	2.448	3.011	7.635	1.00	0.00
ATOM	1169	H	GLU	76	2.282	3.456	8.526	1.00	0.00
ATOM	1170	CA	GLU	76	3.406	1.871	7.583	1.00	0.00
ATOM	1171	HA	GLU	76	4.249	2.115	6.937	1.00	0.00
ATOM	1172	CB	GLU	76	3.936	1.581	8.989	1.00	0.00
ATOM	1173	HB2	GLU	76	3.109	1.293	9.638	1.00	0.00
ATOM	1174	HB3	GLU	76	4.661	0.768	8.944	1.00	0.00
ATOM	1175	CG	GLU	76	4.610	2.835	9.548	1.00	0.00
ATOM	1176	HG2	GLU	76	5.362	3.187	8.842	1.00	0.00
ATOM	1177	HG3	GLU	76	3.862	3.612	9.701	1.00	0.00
ATOM	1178	CD	GLU	76	5.281	2.504	10.883	1.00	0.00
ATOM	1179	OE1	GLU	76	5.274	1.341	11.255	1.00	0.00

ATOM	1180	OE2	GLU	76	5.789	3.417	11.511	1.00	0.00
ATOM	1181	C	GLU	76	2.685	0.635	7.042	1.00	0.00
ATOM	1182	O	GLU	76	3.301	-0.306	6.580	1.00	0.00
ATOM	1183	N	ALA	77	1.380	0.636	7.087	1.00	0.00
ATOM	1184	H	ALA	77	0.862	1.414	7.468	1.00	0.00
ATOM	1185	CA	ALA	77	0.618	-0.533	6.568	1.00	0.00
ATOM	1186	HA	ALA	77	1.087	-1.481	6.835	1.00	0.00
ATOM	1187	CB	ALA	77	-0.803	-0.513	7.136	1.00	0.00
ATOM	1188	HB1	ALA	77	-1.288	0.425	6.869	1.00	0.00
ATOM	1189	HB2	ALA	77	-1.371	-1.347	6.723	1.00	0.00
ATOM	1190	HB3	ALA	77	-0.762	-0.605	8.221	1.00	0.00
ATOM	1191	C	ALA	77	0.562	-0.454	5.043	1.00	0.00
ATOM	1192	O	ALA	77	1.020	-1.341	4.349	1.00	0.00
ATOM	1193	N	LEU	78	0.012	0.603	4.513	1.00	0.00
ATOM	1194	H	LEU	78	-0.370	1.346	5.080	1.00	0.00
ATOM	1195	CA	LEU	78	-0.060	0.737	3.032	1.00	0.00
ATOM	1196	HA	LEU	78	-0.706	-0.036	2.615	1.00	0.00
ATOM	1197	CB	LEU	78	-0.636	2.106	2.666	1.00	0.00
ATOM	1198	HB2	LEU	78	-1.594	2.243	3.167	1.00	0.00
ATOM	1199	HB3	LEU	78	0.054	2.888	2.983	1.00	0.00

ATOM	1200	CG	LEU	78	-0.836	2.186	1.153	1.00	0.00
ATOM	1201	HG	LEU	78	0.074	1.861	0.648	1.00	0.00
ATOM	1202	CD1	LEU	78	-1.998	1.279	0.743	1.00	0.00
ATOM	1203	HD11	LEU	78	-2.908	1.603	1.247	1.00	0.00
ATOM	1204	HD12	LEU	78	-2.141	1.336	-0.336	1.00	0.00
ATOM	1205	HD13	LEU	78	-1.774	0.250	1.026	1.00	0.00
ATOM	1206	CD2	LEU	78	-1.151	3.629	0.754	1.00	0.00
ATOM	1207	HD21	LEU	78	-0.323	4.275	1.045	1.00	0.00
ATOM	1208	HD22	LEU	78	-1.293	3.685	-0.325	1.00	0.00
ATOM	1209	HD23	LEU	78	-2.061	3.955	1.258	1.00	0.00
ATOM	1210	C	LEU	78	1.350	0.604	2.456	1.00	0.00
ATOM	1211	O	LEU	78	1.573	-0.096	1.489	1.00	0.00
ATOM	1212	N	GLN	79	2.304	1.269	3.049	1.00	0.00
ATOM	1213	H	GLN	79	2.124	1.852	3.854	1.00	0.00
ATOM	1214	CA	GLN	79	3.700	1.178	2.542	1.00	0.00
ATOM	1215	HA	GLN	79	3.771	1.624	1.550	1.00	0.00
ATOM	1216	CB	GLN	79	4.640	1.933	3.486	1.00	0.00
ATOM	1217	HB2	GLN	79	4.511	1.560	4.502	1.00	0.00
ATOM	1218	HB3	GLN	79	5.672	1.779	3.171	1.00	0.00
ATOM	1219	CG	GLN	79	4.312	3.427	3.445	1.00	0.00

ATOM	1220	HG2	GLN	79	4.483	3.823	2.444	1.00	0.00
ATOM	1221	HG3	GLN	79	3.274	3.595	3.729	1.00	0.00
ATOM	1222	CD	GLN	79	5.216	4.174	4.428	1.00	0.00
ATOM	1223	OE1	GLN	79	5.439	5.448	4.252	1.00	0.00
ATOM	1224	NE2	GLN	79	5.726	3.592	5.365	1.00	0.00
ATOM	1225	HE21	GLN	79	6.321	4.097	6.006	1.00	0.00
ATOM	1226	HE22	GLN	79	5.553	2.605	5.498	1.00	0.00
ATOM	1227	C	GLN	79	4.115	-0.290	2.476	1.00	0.00
ATOM	1228	O	GLN	79	4.679	-0.744	1.501	1.00	0.00
ATOM	1229	N	GLN	80	3.832	-1.040	3.505	1.00	0.00
ATOM	1230	H	GLN	80	3.360	-0.673	4.318	1.00	0.00
ATOM	1231	CA	GLN	80	4.205	-2.482	3.497	1.00	0.00
ATOM	1232	HA	GLN	80	5.290	-2.591	3.478	1.00	0.00
ATOM	1233	CB	GLN	80	3.668	-3.158	4.760	1.00	0.00
ATOM	1234	HB2	GLN	80	3.992	-2.599	5.638	1.00	0.00
ATOM	1235	HB3	GLN	80	2.579	-3.181	4.726	1.00	0.00
ATOM	1236	CG	GLN	80	4.205	-4.588	4.840	1.00	0.00
ATOM	1237	HG2	GLN	80	3.745	-5.118	5.674	1.00	0.00
ATOM	1238	HG3	GLN	80	4.000	-5.123	3.913	1.00	0.00
ATOM	1239	CD	GLN	80	5.719	-4.553	5.059	1.00	0.00

ATOM	1240	OE1	GLN	80	6.206	-3.826	5.902	1.00	0.00
ATOM	1241	NE2	GLN	80	6.489	-5.313	4.329	1.00	0.00
ATOM	1242	HE21	GLN	80	7.489	-5.296	4.468	1.00	0.00
ATOM	1243	HE22	GLN	80	6.081	-5.916	3.628	1.00	0.00
ATOM	1244	C	GLN	80	3.595	-3.149	2.263	1.00	0.00
ATOM	1245	O	GLN	80	4.260	-3.868	1.543	1.00	0.00
ATOM	1246	N	ILE	81	2.338	-2.910	2.010	1.00	0.00
ATOM	1247	H	ILE	81	1.780	-2.312	2.602	1.00	0.00
ATOM	1248	CA	ILE	81	1.691	-3.525	0.818	1.00	0.00
ATOM	1249	HA	ILE	81	1.560	-4.594	0.986	1.00	0.00
ATOM	1250	CB	ILE	81	0.326	-2.874	0.588	1.00	0.00
ATOM	1251	HB	ILE	81	0.450	-1.796	0.492	1.00	0.00
ATOM	1252	CG2	ILE	81	-0.297	-3.431	-0.693	1.00	0.00
ATOM	1253	HG21	ILE	81	-0.421	-4.510	-0.598	1.00	0.00
ATOM	1254	HG22	ILE	81	-1.269	-2.967	-0.856	1.00	0.00
ATOM	1255	HG23	ILE	81	0.355	-3.215	-1.539	1.00	0.00
ATOM	1256	CG1	ILE	81	-0.593	-3.178	1.773	1.00	0.00
ATOM	1257	HG12	ILE	81	-0.635	-4.256	1.932	1.00	0.00
ATOM	1258	HG13	ILE	81	-0.203	-2.694	2.668	1.00	0.00
ATOM	1259	CD1	ILE	81	-1.999	-2.650	1.479	1.00	0.00

ATOM	1260	HD11	ILE	81	-2.389	-3.134	0.584	1.00	0.00
ATOM	1261	HD12	ILE	81	-2.653	-2.867	2.323	1.00	0.00
ATOM	1262	HD13	ILE	81	-1.957	-1.573	1.320	1.00	0.00
ATOM	1263	C	ILE	81	2.581	-3.298	-0.404	1.00	0.00
ATOM	1264	O	ILE	81	3.073	-4.231	-1.009	1.00	0.00
ATOM	1265	N	MET	82	2.798	-2.064	-0.769	1.00	0.00
ATOM	1266	H	MET	82	2.394	-1.285	-0.270	1.00	0.00
ATOM	1267	CA	MET	82	3.662	-1.777	-1.947	1.00	0.00
ATOM	1268	HA	MET	82	3.132	-2.007	-2.871	1.00	0.00
ATOM	1269	CB	MET	82	4.036	-0.293	-1.954	1.00	0.00
ATOM	1270	HB2	MET	82	4.691	-0.079	-1.109	1.00	0.00
ATOM	1271	HB3	MET	82	4.553	-0.053	-2.883	1.00	0.00
ATOM	1272	CG	MET	82	2.767	0.554	-1.843	1.00	0.00
ATOM	1273	HG2	MET	82	2.324	0.428	-0.855	1.00	0.00
ATOM	1274	HG3	MET	82	3.010	1.604	-2.001	1.00	0.00
ATOM	1275	SD	MET	82	1.578	0.023	-3.100	1.00	0.00
ATOM	1276	CE	MET	82	2.563	0.479	-4.549	1.00	0.00
ATOM	1277	HE1	MET	82	3.504	-0.072	-4.538	1.00	0.00
ATOM	1278	HE2	MET	82	2.011	0.234	-5.456	1.00	0.00
ATOM	1279	HE3	MET	82	2.769	1.549	-4.527	1.00	0.00



ATOM	1280	C	MET	82	4.932	-2.622	-1.861	1.00	0.00
ATOM	1281	O	MET	82	5.293	-3.317	-2.788	1.00	0.00
ATOM	1282	N	GLU	83	5.608	-2.573	-0.749	1.00	0.00
ATOM	1283	H	GLU	83	5.312	-2.001	0.028	1.00	0.00
ATOM	1284	CA	GLU	83	6.853	-3.376	-0.600	1.00	0.00
ATOM	1285	HA	GLU	83	7.532	-3.180	-1.430	1.00	0.00
ATOM	1286	CB	GLU	83	7.554	-2.993	0.706	1.00	0.00
ATOM	1287	HB2	GLU	83	6.861	-3.111	1.539	1.00	0.00
ATOM	1288	HB3	GLU	83	8.418	-3.640	0.859	1.00	0.00
ATOM	1289	CG	GLU	83	8.015	-1.536	0.628	1.00	0.00
ATOM	1290	HG2	GLU	83	8.646	-1.400	-0.251	1.00	0.00
ATOM	1291	HG3	GLU	83	7.145	-0.884	0.555	1.00	0.00
ATOM	1292	CD	GLU	83	8.811	-1.185	1.886	1.00	0.00
ATOM	1293	OE1	GLU	83	8.879	-2.018	2.773	1.00	0.00
ATOM	1294	OE2	GLU	83	9.341	-0.087	1.940	1.00	0.00
ATOM	1295	C	GLU	83	6.493	-4.862	-0.571	1.00	0.00
ATOM	1296	O	GLU	83	7.341	-5.720	-0.713	1.00	0.00
ATOM	1297	N	ASN	84	5.238	-5.169	-0.392	1.00	0.00
ATOM	1298	H	ASN	84	4.530	-4.460	-0.273	1.00	0.00
ATOM	1299	CA	ASN	84	4.819	-6.597	-0.358	1.00	0.00

ATOM	1300	HA	ASN	84	5.557	-7.195	0.178	1.00	0.00
ATOM	1301	CB	ASN	84	3.474	-6.719	0.362	1.00	0.00
ATOM	1302	HB2	ASN	84	3.517	-6.220	1.330	1.00	0.00
ATOM	1303	HB3	ASN	84	2.681	-6.276	-0.240	1.00	0.00
ATOM	1304	CG	ASN	84	3.149	-8.196	0.588	1.00	0.00
ATOM	1305	OD1	ASN	84	3.770	-8.850	1.402	1.00	0.00
ATOM	1306	ND2	ASN	84	2.194	-8.755	-0.104	1.00	0.00
ATOM	1307	HD21	ASN	84	1.974	-9.731	0.040	1.00	0.00
ATOM	1308	HD22	ASN	84	1.679	-8.210	-0.781	1.00	0.00
ATOM	1309	C	ASN	84	4.682	-7.120	-1.789	1.00	0.00
ATOM	1310	O	ASN	84	4.731	-8.310	-2.031	1.00	0.00
ATOM	1311	N	GLN	85	4.509	-6.242	-2.740	1.00	0.00
ATOM	1312	H	GLN	85	4.464	-5.251	-2.550	1.00	0.00
ATOM	1313	CA	GLN	85	4.371	-6.698	-4.152	1.00	0.00
ATOM	1314	HA	GLN	85	5.177	-7.386	-4.409	1.00	0.00
ATOM	1315	CB	GLN	85	3.035	-7.425	-4.324	1.00	0.00
ATOM	1316	HB2	GLN	85	2.915	-8.160	-3.528	1.00	0.00
ATOM	1317	HB3	GLN	85	2.219	-6.704	-4.278	1.00	0.00
ATOM	1318	CG	GLN	85	3.012	-8.134	-5.680	1.00	0.00
ATOM	1319	HG2	GLN	85	3.118	-7.410	-6.488	1.00	0.00

ATOM	1320	HG3	GLN	85	3.820	-8.864	-5.740	1.00	0.00
ATOM	1321	CD	GLN	85	1.679	-8.865	-5.850	1.00	0.00
ATOM	1322	OE1	GLN	85	0.977	-9.105	-4.888	1.00	0.00
ATOM	1323	NE2	GLN	85	1.298	-9.232	-7.043	1.00	0.00
ATOM	1324	HE21	GLN	85	0.419	-9.715	-7.163	1.00	0.00
ATOM	1325	HE22	GLN	85	1.884	-9.032	-7.841	1.00	0.00
ATOM	1326	C	GLN	85	4.417	-5.491	-5.095	1.00	0.00
ATOM	1327	O	GLN	85	3.599	-5.356	-5.982	1.00	0.00
ATOM	1328	N	CYX	86	5.371	-4.616	-4.916	1.00	0.00
ATOM	1329	H	CYX	86	6.058	-4.718	-4.182	1.00	0.00
ATOM	1330	CA	CYX	86	5.464	-3.427	-5.812	1.00	0.00
ATOM	1331	HA	CYX	86	4.482	-3.184	-6.218	1.00	0.00
ATOM	1332	CB	CYX	86	5.977	-2.223	-5.019	1.00	0.00
ATOM	1333	HB2	CYX	86	6.181	-1.398	-5.702	1.00	0.00
ATOM	1334	HB3	CYX	86	5.223	-1.917	-4.295	1.00	0.00
ATOM	1335	SG	CYX	86	7.529	-2.657	-4.195	1.00	0.00
ATOM	1336	C	CYX	86	6.430	-3.729	-6.958	1.00	0.00
ATOM	1337	O	CYX	86	6.543	-2.974	-7.903	1.00	0.00
ATOM	1338	N	ASP	87	7.132	-4.828	-6.881	1.00	0.00
ATOM	1339	H	ASP	87	7.045	-5.460	-6.098	1.00	0.00

ATOM	1340	CA	ASP	87	8.091	-5.177	-7.966	1.00	0.00
ATOM	1341	HA	ASP	87	8.979	-4.547	-7.904	1.00	0.00
ATOM	1342	CB	ASP	87	8.518	-6.639	-7.817	1.00	0.00
ATOM	1343	HB2	ASP	87	7.647	-7.251	-7.581	1.00	0.00
ATOM	1344	HB3	ASP	87	8.962	-6.985	-8.751	1.00	0.00
ATOM	1345	CG	ASP	87	9.545	-6.759	-6.689	1.00	0.00
ATOM	1346	OD1	ASP	87	9.978	-5.730	-6.196	1.00	0.00
ATOM	1347	OD2	ASP	87	9.881	-7.877	-6.337	1.00	0.00
ATOM	1348	C	ASP	87	7.419	-4.979	-9.326	1.00	0.00
ATOM	1349	O	ASP	87	7.977	-4.379	-10.224	1.00	0.00
ATOM	1350	N	ARG	88	6.225	-5.481	-9.487	1.00	0.00
ATOM	1351	H	ARG	88	5.756	-5.982	-8.746	1.00	0.00
ATOM	1352	CA	ARG	88	5.520	-5.323	-10.790	1.00	0.00
ATOM	1353	HA	ARG	88	6.123	-5.737	-11.599	1.00	0.00
ATOM	1354	CB	ARG	88	4.186	-6.072	-10.742	1.00	0.00
ATOM	1355	HB2	ARG	88	3.601	-5.719	-9.893	1.00	0.00
ATOM	1356	HB3	ARG	88	3.634	-5.891	-11.664	1.00	0.00
ATOM	1357	CG	ARG	88	4.448	-7.572	-10.591	1.00	0.00
ATOM	1358	HG2	ARG	88	5.038	-7.925	-11.437	1.00	0.00
ATOM	1359	HG3	ARG	88	4.995	-7.754	-9.666	1.00	0.00

ATOM	1360	CD	ARG	88	3.116	-8.322	-10.551	1.00	0.00
ATOM	1361	HD2	ARG	88	2.455	-7.877	-9.808	1.00	0.00
ATOM	1362	HD3	ARG	88	2.636	-8.290	-11.529	1.00	0.00
ATOM	1363	NE	ARG	88	3.356	-9.745	-10.184	1.00	0.00
ATOM	1364	HE	ARG	88	3.068	-10.116	-9.289	1.00	0.00
ATOM	1365	CZ	ARG	88	3.950	-10.546	-11.028	1.00	0.00
ATOM	1366	NH1	ARG	88	3.243	-11.357	-11.765	1.00	0.00
ATOM	1367	HH11	ARG	88	2.237	-11.364	-11.681	1.00	0.00
ATOM	1368	HH12	ARG	88	3.705	-11.975	-12.417	1.00	0.00
ATOM	1369	NH2	ARG	88	5.251	-10.533	-11.134	1.00	0.00
ATOM	1370	HH21	ARG	88	5.795	-9.903	-10.562	1.00	0.00
ATOM	1371	HH22	ARG	88	5.708	-11.154	-11.787	1.00	0.00
ATOM	1372	C	ARG	88	5.261	-3.838	-11.058	1.00	0.00
ATOM	1373	O	ARG	88	4.905	-3.449	-12.152	1.00	0.00
ATOM	1374	N	LEU	89	5.440	-3.007	-10.069	1.00	0.00
ATOM	1375	H	LEU	89	5.736	-3.323	-9.156	1.00	0.00
ATOM	1376	CA	LEU	89	5.205	-1.549	-10.271	1.00	0.00
ATOM	1377	HA	LEU	89	4.178	-1.373	-10.589	1.00	0.00
ATOM	1378	CB	LEU	89	5.445	-0.804	-8.956	1.00	0.00
ATOM	1379	HB2	LEU	89	4.958	-1.338	-8.140	1.00	0.00

ATOM	1380	HB3 LEU	89	6.516	-0.745	-8.763	1.00	0.00
ATOM	1381	CG LEU	89	4.867	0.608	-9.058	1.00	0.00
ATOM	1382	HG LEU	89	5.281	1.108	-9.934	1.00	0.00
ATOM	1383	CD1 LEU	89	3.345	0.527	-9.189	1.00	0.00
ATOM	1384	HD11 LEU	89	2.931	0.027	-8.314	1.00	0.00
ATOM	1385	HD12 LEU	89	2.932	1.533	-9.262	1.00	0.00
ATOM	1386	HD13 LEU	89	3.087	-0.037	-10.085	1.00	0.00
ATOM	1387	CD2 LEU	89	5.226	1.401	-7.801	1.00	0.00
ATOM	1388	HD21 LEU	89	6.310	1.459	-7.705	1.00	0.00
ATOM	1389	HD22 LEU	89	4.814	2.407	-7.875	1.00	0.00
ATOM	1390	HD23 LEU	89	4.811	0.902	-6.925	1.00	0.00
ATOM	1391	C LEU	89	6.165	-1.020	-11.339	1.00	0.00
ATOM	1392	O LEU	89	5.982	0.055	-11.874	1.00	0.00
ATOM	1393	N GLN	90	7.188	-1.768	-11.652	1.00	0.00
ATOM	1394	H GLN	90	7.347	-2.664	-11.212	1.00	0.00
ATOM	1395	CA GLN	90	8.158	-1.307	-12.685	1.00	0.00
ATOM	1396	HA GLN	90	8.801	-0.526	-12.279	1.00	0.00
ATOM	1397	CB GLN	90	9.034	-2.483	-13.122	1.00	0.00
ATOM	1398	HB2 GLN	90	8.406	-3.352	-13.319	1.00	0.00
ATOM	1399	HB3 GLN	90	9.577	-2.216	-14.029	1.00	0.00

ATOM	1400	CG	GLN	90	10.032	-2.817	-12.010	1.00	0.00
ATOM	1401	HG2	GLN	90	10.604	-1.930	-11.737	1.00	0.00
ATOM	1402	HG3	GLN	90	9.510	-3.197	-11.132	1.00	0.00
ATOM	1403	CD	GLN	90	11.003	-3.891	-12.504	1.00	0.00
ATOM	1404	OE1	GLN	90	10.778	-4.505	-13.528	1.00	0.00
ATOM	1405	NE2	GLN	90	12.080	-4.147	-11.813	1.00	0.00
ATOM	1406	HE21	GLN	90	12.726	-4.855	-12.133	1.00	0.00
ATOM	1407	HE22	GLN	90	12.263	-3.637	-10.961	1.00	0.00
ATOM	1408	C	GLN	90	7.396	-0.764	-13.894	1.00	0.00
ATOM	1409	O	GLN	90	7.894	0.057	-14.638	1.00	0.00
ATOM	1410	N	ASP	91	6.188	-1.216	-14.098	1.00	0.00
ATOM	1411	H	ASP	91	5.767	-1.898	-13.483	1.00	0.00
ATOM	1412	CA	ASP	91	5.394	-0.727	-15.259	1.00	0.00
ATOM	1413	HA	ASP	91	5.953	-0.865	-16.185	1.00	0.00
ATOM	1414	CB	ASP	91	4.089	-1.518	-15.354	1.00	0.00
ATOM	1415	HB2	ASP	91	3.556	-1.455	-14.405	1.00	0.00
ATOM	1416	HB3	ASP	91	3.468	-1.102	-16.147	1.00	0.00
ATOM	1417	CG	ASP	91	4.401	-2.982	-15.666	1.00	0.00
ATOM	1418	OD1	ASP	91	5.531	-3.261	-16.033	1.00	0.00
ATOM	1419	OD2	ASP	91	3.506	-3.801	-15.534	1.00	0.00

ATOM	1420	C	ASP	91	5.077	0.758	-15.070	1.00	0.00
ATOM	1421	O	ASP	91	4.807	1.212	-13.975	1.00	0.00
ATOM	1422	N	ARG	92	5.110	1.521	-16.129	1.00	0.00
ATOM	1423	H	ARG	92	5.336	1.152	-17.042	1.00	0.00
ATOM	1424	CA	ARG	92	4.811	2.976	-16.009	1.00	0.00
ATOM	1425	HA	ARG	92	5.387	3.413	-15.193	1.00	0.00
ATOM	1426	CB	ARG	92	5.190	3.685	-17.310	1.00	0.00
ATOM	1427	HB2	ARG	92	6.266	3.606	-17.466	1.00	0.00
ATOM	1428	HB3	ARG	92	4.668	3.216	-18.144	1.00	0.00
ATOM	1429	CG	ARG	92	4.794	5.159	-17.224	1.00	0.00
ATOM	1430	HG2	ARG	92	3.751	5.237	-16.918	1.00	0.00
ATOM	1431	HG3	ARG	92	5.426	5.663	-16.493	1.00	0.00
ATOM	1432	CD	ARG	92	4.974	5.817	-18.593	1.00	0.00
ATOM	1433	HD2	ARG	92	4.262	5.403	-19.307	1.00	0.00
ATOM	1434	HD3	ARG	92	4.826	6.894	-18.516	1.00	0.00
ATOM	1435	NE	ARG	92	6.354	5.559	-19.091	1.00	0.00
ATOM	1436	HE	ARG	92	6.952	4.870	-18.656	1.00	0.00
ATOM	1437	CZ	ARG	92	6.815	6.227	-20.112	1.00	0.00
ATOM	1438	NH1	ARG	92	6.550	7.499	-20.232	1.00	0.00
ATOM	1439	HH11	ARG	92	5.988	7.962	-19.533	1.00	0.00



ATOM	1440	HH12	ARG	92	6.909	8.013	-21.024	1.00	0.00
ATOM	1441	NH2	ARG	92	7.543	5.624	-21.012	1.00	0.00
ATOM	1442	HH21	ARG	92	7.748	4.639	-20.915	1.00	0.00
ATOM	1443	HH22	ARG	92	7.899	6.144	-21.801	1.00	0.00
ATOM	1444	C	ARG	92	3.317	3.169	-15.740	1.00	0.00
ATOM	1445	O	ARG	92	2.884	4.219	-15.307	1.00	0.00
ATOM	1446	N	GLN	93	2.524	2.165	-15.994	1.00	0.00
ATOM	1447	H	GLN	93	2.876	1.289	-16.355	1.00	0.00
ATOM	1448	CA	GLN	93	1.060	2.292	-15.754	1.00	0.00
ATOM	1449	HA	GLN	93	0.703	3.263	-16.094	1.00	0.00
ATOM	1450	CB	GLN	93	0.321	1.199	-16.532	1.00	0.00
ATOM	1451	HB2	GLN	93	0.681	1.178	-17.561	1.00	0.00
ATOM	1452	HB3	GLN	93	0.505	0.231	-16.064	1.00	0.00
ATOM	1453	CG	GLN	93	-1.181	1.493	-16.523	1.00	0.00
ATOM	1454	HG2	GLN	93	-1.579	1.403	-15.512	1.00	0.00
ATOM	1455	HG3	GLN	93	-1.371	2.497	-16.900	1.00	0.00
ATOM	1456	CD	GLN	93	-1.902	0.488	-17.424	1.00	0.00
ATOM	1457	OE1	GLN	93	-1.273	-0.250	-18.156	1.00	0.00
ATOM	1458	NE2	GLN	93	-3.205	0.427	-17.400	1.00	0.00
ATOM	1459	HE21	GLN	93	-3.687	-0.234	-17.992	1.00	0.00

ATOM	1460	HE22	GLN	93	-3.725	1.041	-16.790	1.00	0.00
ATOM	1461	C	GLN	93	0.769	2.140	-14.259	1.00	0.00
ATOM	1462	O	GLN	93	0.093	2.956	-13.664	1.00	0.00
ATOM	1463	N	MET	94	1.273	1.103	-13.648	1.00	0.00
ATOM	1464	H	MET	94	1.838	0.422	-14.136	1.00	0.00
ATOM	1465	CA	MET	94	1.023	0.900	-12.193	1.00	0.00
ATOM	1466	HA	MET	94	-0.042	0.756	-12.009	1.00	0.00
ATOM	1467	CB	MET	94	1.773	-0.343	-11.713	1.00	0.00
ATOM	1468	HB2	MET	94	2.802	-0.308	-12.073	1.00	0.00
ATOM	1469	HB3	MET	94	1.771	-0.370	-10.623	1.00	0.00
ATOM	1470	CG	MET	94	1.087	-1.598	-12.255	1.00	0.00
ATOM	1471	HG2	MET	94	0.767	-1.428	-13.283	1.00	0.00
ATOM	1472	HG3	MET	94	1.781	-2.439	-12.226	1.00	0.00
ATOM	1473	SD	MET	94	-0.359	-1.984	-11.237	1.00	0.00
ATOM	1474	CE	MET	94	0.490	-2.043	-9.639	1.00	0.00
ATOM	1475	HE1	MET	94	0.954	-1.078	-9.437	1.00	0.00
ATOM	1476	HE2	MET	94	-0.229	-2.272	-8.853	1.00	0.00
ATOM	1477	HE3	MET	94	1.258	-2.816	-9.663	1.00	0.00
ATOM	1478	C	MET	94	1.516	2.121	-11.412	1.00	0.00
ATOM	1479	O	MET	94	0.886	2.565	-10.474	1.00	0.00

ATOM	1480	N	VAL	95	2.644	2.661	-11.788	1.00	0.00
ATOM	1481	H	VAL	95	3.175	2.292	-12.564	1.00	0.00
ATOM	1482	CA	VAL	95	3.183	3.849	-11.064	1.00	0.00
ATOM	1483	HA	VAL	95	3.680	3.537	-10.145	1.00	0.00
ATOM	1484	CB	VAL	95	4.201	4.568	-11.951	1.00	0.00
ATOM	1485	HB	VAL	95	3.746	4.799	-12.914	1.00	0.00
ATOM	1486	CG1	VAL	95	4.643	5.865	-11.272	1.00	0.00
ATOM	1487	HG11	VAL	95	5.099	5.634	-10.309	1.00	0.00
ATOM	1488	HG12	VAL	95	5.369	6.377	-11.904	1.00	0.00
ATOM	1489	HG13	VAL	95	3.777	6.508	-11.118	1.00	0.00
ATOM	1490	CG2	VAL	95	5.418	3.665	-12.165	1.00	0.00
ATOM	1491	HG21	VAL	95	5.104	2.739	-12.649	1.00	0.00
ATOM	1492	HG22	VAL	95	6.144	4.176	-12.797	1.00	0.00
ATOM	1493	HG23	VAL	95	5.874	3.434	-11.202	1.00	0.00
ATOM	1494	C	VAL	95	2.041	4.808	-10.717	1.00	0.00
ATOM	1495	O	VAL	95	1.414	4.691	-9.683	1.00	0.00
ATOM	1496	N	GLN	96	1.769	5.756	-11.570	1.00	0.00
ATOM	1497	H	GLN	96	2.288	5.862	-12.430	1.00	0.00
ATOM	1498	CA	GLN	96	0.670	6.721	-11.284	1.00	0.00
ATOM	1499	HA	GLN	96	0.909	7.315	-10.402	1.00	0.00

ATOM	1500	CB	GLN	96	0.495	7.664	-12.477	1.00	0.00
ATOM	1501	HB2	GLN	96	0.211	7.087	-13.357	1.00	0.00
ATOM	1502	HB3	GLN	96	-0.284	8.392	-12.253	1.00	0.00
ATOM	1503	CG	GLN	96	1.812	8.393	-12.749	1.00	0.00
ATOM	1504	HG2	GLN	96	2.149	8.917	-11.854	1.00	0.00
ATOM	1505	HG3	GLN	96	2.578	7.683	-13.063	1.00	0.00
ATOM	1506	CD	GLN	96	1.606	9.417	-13.867	1.00	0.00
ATOM	1507	OE1	GLN	96	0.886	10.382	-13.699	1.00	0.00
ATOM	1508	NE2	GLN	96	2.214	9.249	-15.010	1.00	0.00
ATOM	1509	HE21	GLN	96	2.083	9.921	-15.752	1.00	0.00
ATOM	1510	HE22	GLN	96	2.813	8.447	-15.147	1.00	0.00
ATOM	1511	C	GLN	96	-0.631	5.959	-11.040	1.00	0.00
ATOM	1512	O	GLN	96	-1.271	6.110	-10.018	1.00	0.00
ATOM	1513	N	GLN	97	-1.027	5.142	-11.972	1.00	0.00
ATOM	1514	H	GLN	97	-0.500	5.017	-12.824	1.00	0.00
ATOM	1515	CA	GLN	97	-2.287	4.366	-11.801	1.00	0.00
ATOM	1516	HA	GLN	97	-3.152	5.011	-11.951	1.00	0.00
ATOM	1517	CB	GLN	97	-2.333	3.238	-12.834	1.00	0.00
ATOM	1518	HB2	GLN	97	-2.007	3.617	-13.803	1.00	0.00
ATOM	1519	HB3	GLN	97	-1.672	2.429	-12.521	1.00	0.00

ATOM	1520	CG	GLN	97	-3.765	2.711	-12.948	1.00	0.00
ATOM	1521	HG2	GLN	97	-3.801	1.852	-13.619	1.00	0.00
ATOM	1522	HG3	GLN	97	-4.139	2.420	-11.966	1.00	0.00
ATOM	1523	CD	GLN	97	-4.669	3.809	-13.510	1.00	0.00
ATOM	1524	OE1	GLN	97	-4.547	4.185	-14.659	1.00	0.00
ATOM	1525	NE2	GLN	97	-5.580	4.342	-12.742	1.00	0.00
ATOM	1526	HE21	GLN	97	-6.181	5.067	-13.106	1.00	0.00
ATOM	1527	HE22	GLN	97	-5.679	4.026	-11.788	1.00	0.00
ATOM	1528	C	GLN	97	-2.338	3.774	-10.391	1.00	0.00
ATOM	1529	O	GLN	97	-3.136	4.176	-9.567	1.00	0.00
ATOM	1530	N	PHE	98	-1.491	2.823	-10.105	1.00	0.00
ATOM	1531	H	PHE	98	-0.824	2.477	-10.780	1.00	0.00
ATOM	1532	CA	PHE	98	-1.499	2.214	-8.744	1.00	0.00
ATOM	1533	HA	PHE	98	-2.421	1.653	-8.592	1.00	0.00
ATOM	1534	CB	PHE	98	-0.313	1.257	-8.588	1.00	0.00
ATOM	1535	HB2	PHE	98	-0.266	0.527	-9.397	1.00	0.00
ATOM	1536	HB3	PHE	98	0.638	1.786	-8.522	1.00	0.00
ATOM	1537	CG	PHE	98	-0.461	0.470	-7.303	1.00	0.00
ATOM	1538	CD1	PHE	98	-1.661	0.518	-6.578	1.00	0.00
ATOM	1539	HD1	PHE	98	-2.491	1.123	-6.941	1.00	0.00

ATOM	1540	CE1 PHE	98	-1.792	-0.210	-5.391	1.00	0.00
ATOM	1541	HE1 PHE	98	-2.726	-0.172	-4.830	1.00	0.00
ATOM	1542	CZ PHE	98	-0.727	-0.987	-4.923	1.00	0.00
ATOM	1543	HZ PHE	98	-0.830	-1.554	-3.997	1.00	0.00
ATOM	1544	CE2 PHE	98	0.472	-1.037	-5.644	1.00	0.00
ATOM	1545	HE2 PHE	98	1.302	-1.643	-5.280	1.00	0.00
ATOM	1546	CD2 PHE	98	0.605	-0.309	-6.833	1.00	0.00
ATOM	1547	HD2 PHE	98	1.539	-0.348	-7.394	1.00	0.00
ATOM	1548	C PHE	98	-1.400	3.323	-7.698	1.00	0.00
ATOM	1549	O PHE	98	-2.030	3.271	-6.661	1.00	0.00
ATOM	1550	N LYS	99	-0.615	4.329	-7.966	1.00	0.00
ATOM	1551	H LYS	99	-0.089	4.377	-8.827	1.00	0.00
ATOM	1552	CA LYS	99	-0.478	5.446	-6.991	1.00	0.00
ATOM	1553	HA LYS	99	-0.184	5.060	-6.015	1.00	0.00
ATOM	1554	CB LYS	99	0.597	6.420	-7.475	1.00	0.00
ATOM	1555	HB2 LYS	99	1.510	5.870	-7.703	1.00	0.00
ATOM	1556	HB3 LYS	99	0.248	6.930	-8.373	1.00	0.00
ATOM	1557	CG LYS	99	0.882	7.451	-6.380	1.00	0.00
ATOM	1558	HG2 LYS	99	-0.045	7.952	-6.101	1.00	0.00
ATOM	1559	HG3 LYS	99	1.301	6.949	-5.507	1.00	0.00

ATOM	1560	CD	LYS	99	1.882	8.484	-6.903	1.00	0.00
ATOM	1561	HD2	LYS	99	2.829	7.993	-7.127	1.00	0.00
ATOM	1562	HD3	LYS	99	1.489	8.944	-7.809	1.00	0.00
ATOM	1563	CE	LYS	99	2.105	9.561	-5.839	1.00	0.00
ATOM	1564	HE2	LYS	99	1.925	10.544	-6.273	1.00	0.00
ATOM	1565	HE3	LYS	99	1.418	9.399	-5.008	1.00	0.00
ATOM	1566	NZ	LYS	99	3.508	9.487	-5.344	1.00	0.00
ATOM	1567	HZ1	LYS	99	4.145	9.637	-6.114	1.00	0.00
ATOM	1568	HZ2	LYS	99	3.655	10.197	-4.642	1.00	0.00
ATOM	1569	HZ3	LYS	99	3.676	8.576	-4.941	1.00	0.00
ATOM	1570	C	LYS	99	-1.816	6.178	-6.876	1.00	0.00
ATOM	1571	O	LYS	99	-2.180	6.668	-5.826	1.00	0.00
ATOM	1572	N	ARG	100	-2.553	6.249	-7.949	1.00	0.00
ATOM	1573	H	ARG	100	-2.255	5.843	-8.825	1.00	0.00
ATOM	1574	CA	ARG	100	-3.871	6.941	-7.903	1.00	0.00
ATOM	1575	HA	ARG	100	-3.759	7.937	-7.475	1.00	0.00
ATOM	1576	CB	ARG	100	-4.429	7.078	-9.321	1.00	0.00
ATOM	1577	HB2	ARG	100	-4.247	6.157	-9.875	1.00	0.00
ATOM	1578	HB3	ARG	100	-5.501	7.267	-9.274	1.00	0.00
ATOM	1579	CG	ARG	100	-3.736	8.244	-10.029	1.00	0.00

ATOM	1580	HG2	ARG	100	-3.883	9.157	-9.453	1.00	0.00
ATOM	1581	HG3	ARG	100	-2.669	8.035	-10.113	1.00	0.00
ATOM	1582	CD	ARG	100	-4.333	8.421	-11.427	1.00	0.00
ATOM	1583	HD2	ARG	100	-4.426	7.454	-11.923	1.00	0.00
ATOM	1584	HD3	ARG	100	-5.314	8.891	-11.362	1.00	0.00
ATOM	1585	NE	ARG	100	-3.439	9.292	-12.242	1.00	0.00
ATOM	1586	HE	ARG	100	-2.533	8.973	-12.555	1.00	0.00
ATOM	1587	CZ	ARG	100	-3.821	10.496	-12.567	1.00	0.00
ATOM	1588	NH1	ARG	100	-3.195	11.533	-12.081	1.00	0.00
ATOM	1589	HH11	ARG	100	-2.415	11.399	-11.453	1.00	0.00
ATOM	1590	HH12	ARG	100	-3.493	12.463	-12.335	1.00	0.00
ATOM	1591	NH2	ARG	100	-4.829	10.664	-13.378	1.00	0.00
ATOM	1592	HH21	ARG	100	-5.311	9.859	-13.753	1.00	0.00
ATOM	1593	HH22	ARG	100	-5.122	11.597	-13.628	1.00	0.00
ATOM	1594	C	ARG	100	-4.835	6.119	-7.049	1.00	0.00
ATOM	1595	O	ARG	100	-5.436	6.618	-6.118	1.00	0.00
ATOM	1596	N	GLU	101	-4.979	4.856	-7.348	1.00	0.00
ATOM	1597	H	GLU	101	-4.480	4.430	-8.116	1.00	0.00
ATOM	1598	CA	GLU	101	-5.894	4.002	-6.542	1.00	0.00
ATOM	1599	HA	GLU	101	-6.908	4.398	-6.577	1.00	0.00



ATOM	1600	CB	GLU	101	-5.904	2.582	-7.111	1.00	0.00
ATOM	1601	HB2	GLU	101	-4.883	2.202	-7.158	1.00	0.00
ATOM	1602	HB3	GLU	101	-6.501	1.937	-6.467	1.00	0.00
ATOM	1603	CG	GLU	101	-6.507	2.597	-8.517	1.00	0.00
ATOM	1604	HG2	GLU	101	-5.836	3.125	-9.194	1.00	0.00
ATOM	1605	HG3	GLU	101	-6.643	1.573	-8.867	1.00	0.00
ATOM	1606	CD	GLU	101	-7.861	3.309	-8.483	1.00	0.00
ATOM	1607	OE1	GLU	101	-8.571	3.145	-7.505	1.00	0.00
ATOM	1608	OE2	GLU	101	-8.166	4.006	-9.438	1.00	0.00
ATOM	1609	C	GLU	101	-5.392	3.971	-5.100	1.00	0.00
ATOM	1610	O	GLU	101	-6.161	3.987	-4.159	1.00	0.00
ATOM	1611	N	LEU	102	-4.099	3.928	-4.921	1.00	0.00
ATOM	1612	H	LEU	102	-3.457	3.912	-5.701	1.00	0.00
ATOM	1613	CA	LEU	102	-3.536	3.899	-3.544	1.00	0.00
ATOM	1614	HA	LEU	102	-3.839	2.987	-3.030	1.00	0.00
ATOM	1615	CB	LEU	102	-2.008	3.933	-3.619	1.00	0.00
ATOM	1616	HB2	LEU	102	-1.695	3.875	-4.662	1.00	0.00
ATOM	1617	HB3	LEU	102	-1.645	4.863	-3.183	1.00	0.00
ATOM	1618	CG	LEU	102	-1.426	2.746	-2.845	1.00	0.00
ATOM	1619	HG	LEU	102	-1.509	2.935	-1.775	1.00	0.00

ATOM	1620	CD1 LEU	102	-2.197	1.472	-3.199	1.00	0.00
ATOM	1621	HD11 LEU	102	-2.113	1.281	-4.269	1.00	0.00
ATOM	1622	HD12 LEU	102	-1.780	0.629	-2.647	1.00	0.00
ATOM	1623	HD13 LEU	102	-3.247	1.596	-2.934	1.00	0.00
ATOM	1624	CD2 LEU	102	0.047	2.569	-3.219	1.00	0.00
ATOM	1625	HD21 LEU	102	0.598	3.474	-2.965	1.00	0.00
ATOM	1626	HD22 LEU	102	0.463	1.724	-2.669	1.00	0.00
ATOM	1627	HD23 LEU	102	0.131	2.381	-4.290	1.00	0.00
ATOM	1628	C LEU	102	-4.037	5.114	-2.762	1.00	0.00
ATOM	1629	O LEU	102	-4.326	5.030	-1.587	1.00	0.00
ATOM	1630	N MET	103	-4.149	6.244	-3.407	1.00	0.00
ATOM	1631	H MET	103	-3.915	6.325	-4.386	1.00	0.00
ATOM	1632	CA MET	103	-4.638	7.457	-2.694	1.00	0.00
ATOM	1633	HA MET	103	-4.005	7.669	-1.832	1.00	0.00
ATOM	1634	CB MET	103	-4.596	8.659	-3.639	1.00	0.00
ATOM	1635	HB2 MET	103	-5.048	8.388	-4.593	1.00	0.00
ATOM	1636	HB3 MET	103	-5.148	9.488	-3.198	1.00	0.00
ATOM	1637	CG MET	103	-3.141	9.078	-3.865	1.00	0.00
ATOM	1638	HG2 MET	103	-2.662	9.279	-2.907	1.00	0.00
ATOM	1639	HG3 MET	103	-2.603	8.281	-4.379	1.00	0.00

ATOM	1640	SD	MET	103	-3.096	10.577	-4.879	1.00	0.00
ATOM	1641	CE	MET	103	-3.355	11.765	-3.540	1.00	0.00
ATOM	1642	HE1	MET	103	-2.549	11.673	-2.811	1.00	0.00
ATOM	1643	HE2	MET	103	-3.362	12.776	-3.947	1.00	0.00
ATOM	1644	HE3	MET	103	-4.309	11.562	-3.053	1.00	0.00
ATOM	1645	C	MET	103	-6.077	7.219	-2.234	1.00	0.00
ATOM	1646	O	MET	103	-6.506	7.722	-1.215	1.00	0.00
ATOM	1647	N	SER	104	-6.824	6.449	-2.978	1.00	0.00
ATOM	1648	H	SER	104	-6.471	6.027	-3.825	1.00	0.00
ATOM	1649	CA	SER	104	-8.233	6.172	-2.586	1.00	0.00
ATOM	1650	HA	SER	104	-8.697	7.071	-2.183	1.00	0.00
ATOM	1651	CB	SER	104	-9.025	5.722	-3.815	1.00	0.00
ATOM	1652	HB2	SER	104	-10.066	5.559	-3.538	1.00	0.00
ATOM	1653	HB3	SER	104	-8.970	6.491	-4.585	1.00	0.00
ATOM	1654	OG	SER	104	-8.474	4.512	-4.315	1.00	0.00
ATOM	1655	HG	SER	104	-8.970	4.229	-5.086	1.00	0.00
ATOM	1656	C	SER	104	-8.257	5.065	-1.530	1.00	0.00
ATOM	1657	O	SER	104	-9.115	5.031	-0.671	1.00	0.00
ATOM	1658	N	LEU	105	-7.323	4.155	-1.591	1.00	0.00
ATOM	1659	H	LEU	105	-6.612	4.175	-2.308	1.00	0.00

ATOM	1660	CA	LEU	105	-7.291	3.047	-0.596	1.00	0.00
ATOM	1661	HA	LEU	105	-8.039	2.294	-0.845	1.00	0.00
ATOM	1662	CB	LEU	105	-5.910	2.386	-0.608	1.00	0.00
ATOM	1663	HB2	LEU	105	-5.248	2.950	-1.265	1.00	0.00
ATOM	1664	HB3	LEU	105	-5.500	2.380	0.402	1.00	0.00
ATOM	1665	CG	LEU	105	-6.030	0.947	-1.118	1.00	0.00
ATOM	1666	HG	LEU	105	-5.092	0.420	-0.941	1.00	0.00
ATOM	1667	CD1	LEU	105	-7.164	0.231	-0.380	1.00	0.00
ATOM	1668	HD11	LEU	105	-8.102	0.756	-0.558	1.00	0.00
ATOM	1669	HD12	LEU	105	-7.246	-0.793	-0.745	1.00	0.00
ATOM	1670	HD13	LEU	105	-6.951	0.218	0.689	1.00	0.00
ATOM	1671	CD2	LEU	105	-6.326	0.961	-2.618	1.00	0.00
ATOM	1672	HD21	LEU	105	-5.516	1.466	-3.144	1.00	0.00
ATOM	1673	HD22	LEU	105	-6.411	-0.063	-2.982	1.00	0.00
ATOM	1674	HD23	LEU	105	-7.262	1.489	-2.799	1.00	0.00
ATOM	1675	C	LEU	105	-7.583	3.592	0.804	1.00	0.00
ATOM	1676	O	LEU	105	-8.426	3.077	1.511	1.00	0.00
ATOM	1677	N	PRO	106	-6.875	4.658	1.215	1.00	0.00
ATOM	1678	CD	PRO	106	-5.839	5.356	0.433	1.00	0.00
ATOM	1679	HD2	PRO	106	-6.189	5.509	-0.588	1.00	0.00

ATOM	1680	HD3 PRO	106	-4.926	4.760	0.417	1.00	0.00
ATOM	1681	CG PRO	106	-5.668	6.646	1.185	1.00	0.00
ATOM	1682	HG2 PRO	106	-6.355	7.394	0.789	1.00	0.00
ATOM	1683	HG3 PRO	106	-4.643	7.000	1.075	1.00	0.00
ATOM	1684	CB PRO	106	-5.971	6.328	2.608	1.00	0.00
ATOM	1685	HB2 PRO	106	-6.357	7.230	3.082	1.00	0.00
ATOM	1686	HB3 PRO	106	-5.126	5.948	3.184	1.00	0.00
ATOM	1687	CA PRO	106	-7.070	5.268	2.534	1.00	0.00
ATOM	1688	HA PRO	106	-6.972	4.493	3.294	1.00	0.00
ATOM	1689	C PRO	106	-8.449	5.917	2.644	1.00	0.00
ATOM	1690	O PRO	106	-8.854	6.376	3.694	1.00	0.00
ATOM	1691	N GLN	107	-9.178	5.947	1.563	1.00	0.00
ATOM	1692	H GLN	107	-8.841	5.565	0.690	1.00	0.00
ATOM	1693	CA GLN	107	-10.536	6.551	1.591	1.00	0.00
ATOM	1694	HA GLN	107	-10.636	7.213	2.451	1.00	0.00
ATOM	1695	CB GLN	107	-10.762	7.367	0.317	1.00	0.00
ATOM	1696	HB2 GLN	107	-9.979	8.119	0.223	1.00	0.00
ATOM	1697	HB3 GLN	107	-10.734	6.705	-0.549	1.00	0.00
ATOM	1698	CG GLN	107	-12.126	8.057	0.388	1.00	0.00
ATOM	1699	HG2 GLN	107	-12.918	7.316	0.498	1.00	0.00

ATOM	1700	HG3	GLN	107	-12.157	8.748	1.230	1.00	0.00
ATOM	1701	CD	GLN	107	-12.368	8.844	-0.901	1.00	0.00
ATOM	1702	OE1	GLN	107	-11.481	8.976	-1.722	1.00	0.00
ATOM	1703	NE2	GLN	107	-13.539	9.378	-1.116	1.00	0.00
ATOM	1704	HE21	GLN	107	-13.705	9.898	-1.965	1.00	0.00
ATOM	1705	HE22	GLN	107	-14.274	9.268	-0.432	1.00	0.00
ATOM	1706	C	GLN	107	-11.576	5.436	1.677	1.00	0.00
ATOM	1707	O	GLN	107	-12.479	5.475	2.488	1.00	0.00
ATOM	1708	N	GLN	108	-11.458	4.441	0.841	1.00	0.00
ATOM	1709	H	GLN	108	-10.711	4.404	0.162	1.00	0.00
ATOM	1710	CA	GLN	108	-12.440	3.321	0.872	1.00	0.00
ATOM	1711	HA	GLN	108	-13.405	3.652	0.489	1.00	0.00
ATOM	1712	CB	GLN	108	-11.933	2.175	-0.006	1.00	0.00
ATOM	1713	HB2	GLN	108	-11.733	2.547	-1.011	1.00	0.00
ATOM	1714	HB3	GLN	108	-11.015	1.769	0.420	1.00	0.00
ATOM	1715	CG	GLN	108	-12.994	1.075	-0.072	1.00	0.00
ATOM	1716	HG2	GLN	108	-13.274	0.756	0.932	1.00	0.00
ATOM	1717	HG3	GLN	108	-13.878	1.434	-0.599	1.00	0.00
ATOM	1718	CD	GLN	108	-12.430	-0.130	-0.828	1.00	0.00
ATOM	1719	OE1	GLN	108	-11.521	-0.785	-0.360	1.00	0.00

ATOM	1720	NE2	GLN	108	-12.937	-0.453	-1.987	1.00	0.00
ATOM	1721	HE21	GLN	108	-12.570	-1.248	-2.492	1.00	0.00
ATOM	1722	HE22	GLN	108	-13.694	0.092	-2.373	1.00	0.00
ATOM	1723	C	GLN	108	-12.607	2.827	2.309	1.00	0.00
ATOM	1724	O	GLN	108	-13.651	2.336	2.691	1.00	0.00
ATOM	1725	N	CYX	109	-11.586	2.953	3.111	1.00	0.00
ATOM	1726	H	CYX	109	-10.714	3.358	2.801	1.00	0.00
ATOM	1727	CA	CYX	109	-11.686	2.490	4.524	1.00	0.00
ATOM	1728	HA	CYX	109	-12.729	2.326	4.794	1.00	0.00
ATOM	1729	CB	CYX	109	-10.925	1.170	4.690	1.00	0.00
ATOM	1730	HB2	CYX	109	-10.477	1.130	5.683	1.00	0.00
ATOM	1731	HB3	CYX	109	-11.614	0.334	4.569	1.00	0.00
ATOM	1732	SG	CYX	109	-9.583	1.077	3.476	1.00	0.00
ATOM	1733	C	CYX	109	-11.081	3.549	5.450	1.00	0.00
ATOM	1734	O	CYX	109	-10.611	3.246	6.529	1.00	0.00
ATOM	1735	N	ASN	110	-11.093	4.786	5.037	1.00	0.00
ATOM	1736	H	ASN	110	-11.483	5.041	4.141	1.00	0.00
ATOM	1737	CA	ASN	110	-10.522	5.865	5.892	1.00	0.00
ATOM	1738	HA	ASN	110	-10.334	6.759	5.297	1.00	0.00
ATOM	1739	CB	ASN	110	-11.515	6.216	7.002	1.00	0.00

ATOM	1740	HB2	ASN	110	-11.611	5.383	7.699	1.00	0.00
ATOM	1741	HB3	ASN	110	-11.182	7.103	7.540	1.00	0.00
ATOM	1742	CG	ASN	110	-12.887	6.502	6.389	1.00	0.00
ATOM	1743	OD1	ASN	110	-12.993	7.227	5.420	1.00	0.00
ATOM	1744	ND2	ASN	110	-13.950	5.959	6.917	1.00	0.00
ATOM	1745	HD21	ASN	110	-14.859	6.143	6.517	1.00	0.00
ATOM	1746	HD22	ASN	110	-13.858	5.356	7.723	1.00	0.00
ATOM	1747	C	ASN	110	-9.211	5.385	6.516	1.00	0.00
ATOM	1748	O	ASN	110	-8.971	5.563	7.694	1.00	0.00
ATOM	1749	N	PHE	111	-8.358	4.776	5.736	1.00	0.00
ATOM	1750	H	PHE	111	-8.548	4.619	4.756	1.00	0.00
ATOM	1751	CA	PHE	111	-7.064	4.289	6.290	1.00	0.00
ATOM	1752	HA	PHE	111	-7.234	3.722	7.205	1.00	0.00
ATOM	1753	CB	PHE	111	-6.383	3.376	5.269	1.00	0.00
ATOM	1754	HB2	PHE	111	-7.094	2.939	4.568	1.00	0.00
ATOM	1755	HB3	PHE	111	-5.598	3.891	4.716	1.00	0.00
ATOM	1756	CG	PHE	111	-5.721	2.224	5.987	1.00	0.00
ATOM	1757	CD1	PHE	111	-6.476	1.104	6.357	1.00	0.00
ATOM	1758	HD1	PHE	111	-7.540	1.062	6.126	1.00	0.00
ATOM	1759	CE1	PHE	111	-5.862	0.037	7.024	1.00	0.00



ATOM	1760	HE1 PHE	111	-6.450	-0.834	7.314	1.00	0.00
ATOM	1761	CZ PHE	111	-4.494	0.088	7.319	1.00	0.00
ATOM	1762	HZ PHE	111	-4.016	-0.744	7.837	1.00	0.00
ATOM	1763	CE2 PHE	111	-3.740	1.208	6.948	1.00	0.00
ATOM	1764	HE2 PHE	111	-2.675	1.249	7.178	1.00	0.00
ATOM	1765	CD2 PHE	111	-4.354	2.275	6.282	1.00	0.00
ATOM	1766	HD2 PHE	111	-3.767	3.146	5.993	1.00	0.00
ATOM	1767	C PHE	111	-6.157	5.482	6.594	1.00	0.00
ATOM	1768	O PHE	111	-5.071	5.331	7.116	1.00	0.00
ATOM	1769	N ARG	112	-6.594	6.670	6.273	1.00	0.00
ATOM	1770	H ARG	112	-7.496	6.805	5.840	1.00	0.00
ATOM	1771	CA ARG	112	-5.754	7.870	6.547	1.00	0.00
ATOM	1772	HA ARG	112	-4.903	7.899	5.866	1.00	0.00
ATOM	1773	CB ARG	112	-6.589	9.136	6.341	1.00	0.00
ATOM	1774	HB2 ARG	112	-7.474	9.095	6.976	1.00	0.00
ATOM	1775	HB3 ARG	112	-5.994	10.010	6.604	1.00	0.00
ATOM	1776	CG ARG	112	-7.017	9.232	4.874	1.00	0.00
ATOM	1777	HG2 ARG	112	-6.135	9.199	4.234	1.00	0.00
ATOM	1778	HG3 ARG	112	-7.673	8.396	4.630	1.00	0.00
ATOM	1779	CD ARG	112	-7.763	10.548	4.647	1.00	0.00

ATOM	1780	HD2	ARG	112	-7.114	11.393	4.876	1.00	0.00
ATOM	1781	HD3	ARG	112	-8.098	10.618	3.612	1.00	0.00
ATOM	1782	NE	ARG	112	-8.954	10.604	5.540	1.00	0.00
ATOM	1783	HE	ARG	112	-9.652	9.873	5.535	1.00	0.00
ATOM	1784	CZ	ARG	112	-9.114	11.613	6.353	1.00	0.00
ATOM	1785	NH1	ARG	112	-8.665	11.541	7.576	1.00	0.00
ATOM	1786	HH11	ARG	112	-8.194	10.704	7.890	1.00	0.00
ATOM	1787	HH12	ARG	112	-8.790	12.322	8.203	1.00	0.00
ATOM	1788	NH2	ARG	112	-9.722	12.691	5.943	1.00	0.00
ATOM	1789	HH21	ARG	112	-10.068	12.742	4.996	1.00	0.00
ATOM	1790	HH22	ARG	112	-9.844	13.469	6.575	1.00	0.00
ATOM	1791	C	ARG	112	-5.255	7.819	7.992	1.00	0.00
ATOM	1792	O	ARG	112	-5.868	7.216	8.850	1.00	0.00
ATOM	1793	N	ALA	113	-4.145	8.449	8.270	1.00	0.00
ATOM	1794	H	ALA	113	-3.628	8.953	7.564	1.00	0.00
ATOM	1795	CA	ALA	113	-3.610	8.434	9.660	1.00	0.00
ATOM	1796	HA	ALA	113	-4.377	8.166	10.387	1.00	0.00
ATOM	1797	CB	ALA	113	-2.470	7.419	9.757	1.00	0.00
ATOM	1798	HB1	ALA	113	-1.690	7.678	9.041	1.00	0.00
ATOM	1799	HB2	ALA	113	-2.056	7.431	10.765	1.00	0.00

ATOM	1800	HB3	ALA	113	-2.850	6.422	9.533	1.00	0.00
ATOM	1801	C	ALA	113	-3.086	9.825	10.021	1.00	0.00
ATOM	1802	O	ALA	113	-2.866	10.657	9.163	1.00	0.00
ATOM	1803	N	PRO	114	-2.883	10.076	11.323	1.00	0.00
ATOM	1804	CD	PRO	114	-3.126	9.122	12.418	1.00	0.00
ATOM	1805	HD2	PRO	114	-2.662	8.165	12.176	1.00	0.00
ATOM	1806	HD3	PRO	114	-4.199	8.982	12.546	1.00	0.00
ATOM	1807	CG	PRO	114	-2.489	9.788	13.604	1.00	0.00
ATOM	1808	HG2	PRO	114	-1.465	9.430	13.713	1.00	0.00
ATOM	1809	HG3	PRO	114	-3.056	9.545	14.503	1.00	0.00
ATOM	1810	CB	PRO	114	-2.527	11.254	13.329	1.00	0.00
ATOM	1811	HB2	PRO	114	-1.669	11.715	13.818	1.00	0.00
ATOM	1812	HB3	PRO	114	-3.440	11.752	13.653	1.00	0.00
ATOM	1813	CA	PRO	114	-2.382	11.366	11.812	1.00	0.00
ATOM	1814	HA	PRO	114	-2.986	12.158	11.371	1.00	0.00
ATOM	1815	C	PRO	114	-0.912	11.580	11.442	1.00	0.00
ATOM	1816	O	PRO	114	-0.382	12.666	11.565	1.00	0.00
ATOM	1817	N	GLN	115	-0.250	10.551	10.987	1.00	0.00
ATOM	1818	H	GLN	115	-0.685	9.645	10.882	1.00	0.00
ATOM	1819	CA	GLN	115	1.183	10.694	10.607	1.00	0.00

ATOM	1820	HA	GLN	115	1.598	11.608	11.031	1.00	0.00
ATOM	1821	CB	GLN	115	1.975	9.501	11.147	1.00	0.00
ATOM	1822	HB2	GLN	115	1.613	8.583	10.683	1.00	0.00
ATOM	1823	HB3	GLN	115	3.032	9.631	10.915	1.00	0.00
ATOM	1824	CG	GLN	115	1.793	9.411	12.664	1.00	0.00
ATOM	1825	HG2	GLN	115	0.745	9.239	12.909	1.00	0.00
ATOM	1826	HG3	GLN	115	2.398	8.601	13.072	1.00	0.00
ATOM	1827	CD	GLN	115	2.237	10.725	13.309	1.00	0.00
ATOM	1828	OE1	GLN	115	3.332	11.194	13.066	1.00	0.00
ATOM	1829	NE2	GLN	115	1.430	11.342	14.127	1.00	0.00
ATOM	1830	HE21	GLN	115	1.718	12.210	14.556	1.00	0.00
ATOM	1831	HE22	GLN	115	0.522	10.948	14.327	1.00	0.00
ATOM	1832	C	GLN	115	1.304	10.739	9.083	1.00	0.00
ATOM	1833	O	GLN	115	0.492	10.182	8.369	1.00	0.00
ATOM	1834	N	ARG	116	2.310	11.396	8.577	1.00	0.00
ATOM	1835	H	ARG	116	2.988	11.861	9.163	1.00	0.00
ATOM	1836	CA	ARG	116	2.481	11.475	7.099	1.00	0.00
ATOM	1837	HA	ARG	116	1.655	10.972	6.595	1.00	0.00
ATOM	1838	CB	ARG	116	2.499	12.942	6.665	1.00	0.00
ATOM	1839	HB2	ARG	116	3.307	13.463	7.178	1.00	0.00

ATOM	1840	HB3	ARG	116	2.656	13.001	5.588	1.00	0.00
ATOM	1841	CG	ARG	116	1.162	13.595	7.022	1.00	0.00
ATOM	1842	HG2	ARG	116	0.351	13.050	6.539	1.00	0.00
ATOM	1843	HG3	ARG	116	1.023	13.570	8.103	1.00	0.00
ATOM	1844	CD	ARG	116	1.159	15.047	6.540	1.00	0.00
ATOM	1845	HD2	ARG	116	2.073	15.551	6.854	1.00	0.00
ATOM	1846	HD3	ARG	116	1.080	15.084	5.453	1.00	0.00
ATOM	1847	NE	ARG	116	-0.008	15.763	7.129	1.00	0.00
ATOM	1848	HE	ARG	116	0.086	16.333	7.957	1.00	0.00
ATOM	1849	CZ	ARG	116	-1.183	15.663	6.572	1.00	0.00
ATOM	1850	NH1	ARG	116	-1.400	14.751	5.664	1.00	0.00
ATOM	1851	HH11	ARG	116	-0.655	14.123	5.395	1.00	0.00
ATOM	1852	HH12	ARG	116	-2.311	14.676	5.235	1.00	0.00
ATOM	1853	NH2	ARG	116	-2.144	16.473	6.925	1.00	0.00
ATOM	1854	HH21	ARG	116	-1.974	17.176	7.630	1.00	0.00
ATOM	1855	HH22	ARG	116	-3.052	16.392	6.492	1.00	0.00
ATOM	1856	C	ARG	116	3.799	10.809	6.700	1.00	0.00
ATOM	1857	O	ARG	116	4.744	10.777	7.462	1.00	0.00
ATOM	1858	N	CYX	117	3.869	10.274	5.512	1.00	0.00
ATOM	1859	H	CYX	117	3.087	10.296	4.873	1.00	0.00

ATOM	1860	CA	CYX	117	5.125	9.610	5.067	1.00	0.00
ATOM	1861	HA	CYX	117	5.856	9.602	5.876	1.00	0.00
ATOM	1862	CB	CYX	117	4.824	8.164	4.666	1.00	0.00
ATOM	1863	HB2	CYX	117	4.051	8.152	3.898	1.00	0.00
ATOM	1864	HB3	CYX	117	5.729	7.698	4.276	1.00	0.00
ATOM	1865	SG	CYX	117	4.194	7.259	6.101	1.00	0.00
ATOM	1866	C	CYX	117	5.701	10.361	3.865	1.00	0.00
ATOM	1867	O	CYX	117	5.004	11.079	3.177	1.00	0.00
ATOM	1868	N	ASP	118	6.971	10.200	3.606	1.00	0.00
ATOM	1869	H	ASP	118	7.558	9.605	4.173	1.00	0.00
ATOM	1870	CA	ASP	118	7.589	10.905	2.448	1.00	0.00
ATOM	1871	HA	ASP	118	7.296	11.954	2.444	1.00	0.00
ATOM	1872	CB	ASP	118	9.113	10.824	2.556	1.00	0.00
ATOM	1873	HB2	ASP	118	9.424	9.779	2.568	1.00	0.00
ATOM	1874	HB3	ASP	118	9.564	11.326	1.700	1.00	0.00
ATOM	1875	CG	ASP	118	9.570	11.506	3.847	1.00	0.00
ATOM	1876	OD1	ASP	118	8.776	12.231	4.424	1.00	0.00
ATOM	1877	OD2	ASP	118	10.706	11.290	4.238	1.00	0.00
ATOM	1878	C	ASP	118	7.133	10.243	1.146	1.00	0.00
ATOM	1879	O	ASP	118	6.920	9.049	1.088	1.00	0.00

ATOM	1880	N	LEU	119	6.979	11.011	0.102	1.00	0.00
ATOM	1881	H	LEU	119	7.154	12.004	0.143	1.00	0.00
ATOM	1882	CA	LEU	119	6.534	10.425	-1.193	1.00	0.00
ATOM	1883	HA	LEU	119	5.722	9.717	-1.029	1.00	0.00
ATOM	1884	CB	LEU	119	6.032	11.542	-2.110	1.00	0.00
ATOM	1885	HB2	LEU	119	6.733	12.376	-2.083	1.00	0.00
ATOM	1886	HB3	LEU	119	5.951	11.168	-3.131	1.00	0.00
ATOM	1887	CG	LEU	119	4.658	12.015	-1.630	1.00	0.00
ATOM	1888	HG	LEU	119	4.051	11.151	-1.358	1.00	0.00
ATOM	1889	CD1	LEU	119	4.829	12.923	-0.411	1.00	0.00
ATOM	1890	HD11	LEU	119	5.436	13.786	-0.683	1.00	0.00
ATOM	1891	HD12	LEU	119	3.851	13.260	-0.069	1.00	0.00
ATOM	1892	HD13	LEU	119	5.323	12.370	0.388	1.00	0.00
ATOM	1893	CD2	LEU	119	3.963	12.790	-2.751	1.00	0.00
ATOM	1894	HD21	LEU	119	3.841	12.142	-3.619	1.00	0.00
ATOM	1895	HD22	LEU	119	2.985	13.126	-2.408	1.00	0.00
ATOM	1896	HD23	LEU	119	4.568	13.654	-3.025	1.00	0.00
ATOM	1897	C	LEU	119	7.708	9.706	-1.861	1.00	0.00
ATOM	1898	O	LEU	119	7.527	8.860	-2.713	1.00	0.00
ATOM	1899	N	ASP	120	8.913	10.034	-1.479	1.00	0.00

ATOM	1900	H	ASP	120	9.074	10.737	-0.772	1.00	0.00
ATOM	1901	CA	ASP	120	10.095	9.366	-2.093	1.00	0.00
ATOM	1902	HA	ASP	120	10.039	9.423	-3.180	1.00	0.00
ATOM	1903	CB	ASP	120	11.375	10.066	-1.632	1.00	0.00
ATOM	1904	HB2	ASP	120	12.238	9.594	-2.102	1.00	0.00
ATOM	1905	HB3	ASP	120	11.337	11.117	-1.916	1.00	0.00
ATOM	1906	CG	ASP	120	11.497	9.953	-0.111	1.00	0.00
ATOM	1907	OD1	ASP	120	10.487	9.709	0.529	1.00	0.00
ATOM	1908	OD2	ASP	120	12.599	10.112	0.388	1.00	0.00
ATOM	1909	C	ASP	120	10.132	7.898	-1.664	1.00	0.00
ATOM	1910	O	ASP	120	10.591	7.040	-2.391	1.00	0.00
ATOM	1911	N	VAL	121	9.654	7.603	-0.486	1.00	0.00
ATOM	1912	H	VAL	121	9.272	8.310	0.124	1.00	0.00
ATOM	1913	CA	VAL	121	9.663	6.190	-0.011	1.00	0.00
ATOM	1914	HA	VAL	121	10.688	5.837	0.109	1.00	0.00
ATOM	1915	CB	VAL	121	8.955	6.104	1.343	1.00	0.00
ATOM	1916	HB	VAL	121	7.994	6.614	1.284	1.00	0.00
ATOM	1917	CG1	VAL	121	8.730	4.635	1.709	1.00	0.00
ATOM	1918	HG11	VAL	121	9.691	4.123	1.769	1.00	0.00
ATOM	1919	HG12	VAL	121	8.226	4.573	2.673	1.00	0.00



ATOM	1920	HG13	VAL	121	8.113	4.160	0.946	1.00	0.00
ATOM	1921	CG2	VAL	121	9.822	6.769	2.414	1.00	0.00
ATOM	1922	HG21	VAL	121	9.983	7.815	2.154	1.00	0.00
ATOM	1923	HG22	VAL	121	9.319	6.708	3.379	1.00	0.00
ATOM	1924	HG23	VAL	121	10.783	6.257	2.473	1.00	0.00
ATOM	1925	C	VAL	121	8.933	5.306	-1.025	1.00	0.00
ATOM	1926	O	VAL	121	9.406	4.251	-1.397	1.00	0.00
ATOM	1927	N	SER	122	7.785	5.729	-1.476	1.00	0.00
ATOM	1928	H	SER	122	7.386	6.605	-1.171	1.00	0.00
ATOM	1929	CA	SER	122	7.026	4.913	-2.466	1.00	0.00
ATOM	1930	HA	SER	122	6.768	3.944	-2.038	1.00	0.00
ATOM	1931	CB	SER	122	5.734	5.640	-2.845	1.00	0.00
ATOM	1932	HB2	SER	122	5.977	6.571	-3.357	1.00	0.00
ATOM	1933	HB3	SER	122	5.141	5.007	-3.505	1.00	0.00
ATOM	1934	OG	SER	122	4.990	5.926	-1.670	1.00	0.00
ATOM	1935	HG	SER	122	4.180	6.382	-1.908	1.00	0.00
ATOM	1936	C	SER	122	7.880	4.705	-3.718	1.00	0.00
ATOM	1937	O	SER	122	7.828	3.671	-4.353	1.00	0.00
ATOM	1938	N	GLY	123	8.667	5.682	-4.080	1.00	0.00
ATOM	1939	H	GLY	123	8.716	6.545	-3.558	1.00	0.00

ATOM	1940	CA	GLY	123	9.523	5.539	-5.291	1.00	0.00
ATOM	1941	HA2	GLY	123	9.033	4.891	-6.018	1.00	0.00
ATOM	1942	HA3	GLY	123	9.701	6.517	-5.738	1.00	0.00
ATOM	1943	C	GLY	123	10.865	4.920	-4.898	1.00	0.00
ATOM	1944	O	GLY	123	11.810	4.923	-5.662	1.00	0.00
ATOM	1945	N	GLY	124	10.957	4.385	-3.710	1.00	0.00
ATOM	1946	H	GLY	124	10.177	4.377	-3.069	1.00	0.00
ATOM	1947	CA	GLY	124	12.238	3.765	-3.270	1.00	0.00
ATOM	1948	HA2	GLY	124	13.046	4.494	-3.334	1.00	0.00
ATOM	1949	HA3	GLY	124	12.147	3.412	-2.242	1.00	0.00
ATOM	1950	C	GLY	124	12.568	2.577	-4.176	1.00	0.00
ATOM	1951	O	GLY	124	12.579	2.690	-5.385	1.00	0.00
ATOM	1952	N	ARG	125	12.837	1.436	-3.600	1.00	0.00
ATOM	1953	H	ARG	125	12.830	1.332	-2.595	1.00	0.00
ATOM	1954	CA	ARG	125	13.164	0.243	-4.430	1.00	0.00
ATOM	1955	HA	ARG	125	14.038	0.441	-5.051	1.00	0.00
ATOM	1956	CB	ARG	125	13.474	-0.945	-3.515	1.00	0.00
ATOM	1957	HB2	ARG	125	12.649	-1.094	-2.819	1.00	0.00
ATOM	1958	HB3	ARG	125	13.607	-1.844	-4.117	1.00	0.00
ATOM	1959	CG	ARG	125	14.757	-0.662	-2.732	1.00	0.00

ATOM	1960	HG2	ARG	125	15.556	-0.399	-3.425	1.00	0.00
ATOM	1961	HG3	ARG	125	14.588	0.165	-2.043	1.00	0.00
ATOM	1962	CD	ARG	125	15.158	-1.910	-1.942	1.00	0.00
ATOM	1963	HD2	ARG	125	14.305	-2.295	-1.384	1.00	0.00
ATOM	1964	HD3	ARG	125	15.528	-2.682	-2.617	1.00	0.00
ATOM	1965	NE	ARG	125	16.240	-1.560	-0.979	1.00	0.00
ATOM	1966	HE	ARG	125	16.174	-0.748	-0.382	1.00	0.00
ATOM	1967	CZ	ARG	125	17.304	-2.310	-0.893	1.00	0.00
ATOM	1968	NH1	ARG	125	17.906	-2.716	-1.978	1.00	0.00
ATOM	1969	HH11	ARG	125	17.546	-2.448	-2.883	1.00	0.00
ATOM	1970	HH12	ARG	125	18.730	-3.297	-1.908	1.00	0.00
ATOM	1971	NH2	ARG	125	17.767	-2.655	0.277	1.00	0.00
ATOM	1972	HH21	ARG	125	17.300	-2.340	1.115	1.00	0.00
ATOM	1973	HH22	ARG	125	18.591	-3.236	0.339	1.00	0.00
ATOM	1974	C	ARG	125	11.969	-0.099	-5.322	1.00	0.00
ATOM	1975	O	ARG	125	12.125	-0.586	-6.426	1.00	0.00
ATOM	1976	N	CYX	126	10.778	0.152	-4.856	1.00	0.00
ATOM	1977	H	CYX	126	10.642	0.556	-3.941	1.00	0.00
ATOM	1978	CA	CYX	126	9.574	-0.158	-5.678	1.00	0.00
ATOM	1979	HA	CYX	126	9.551	-1.218	-5.931	1.00	0.00

ATOM	1980	CB	CYX	126	8.313	0.182	-4.882	1.00	0.00
ATOM	1981	HB2	CYX	126	8.378	1.207	-4.519	1.00	0.00
ATOM	1982	HB3	CYX	126	7.439	0.078	-5.524	1.00	0.00
ATOM	1983	SG	CYX	126	8.197	-0.907	-3.442	1.00	0.00
ATOM	1984	C	CYX	126	9.608	0.674	-6.962	1.00	0.00
ATOM	1985	O	CYX	126	9.002	0.324	-7.956	1.00	0.00
ATOM	1986	N	SER	127	10.313	1.771	-6.950	1.00	0.00
ATOM	1987	H	SER	127	10.821	2.065	-6.128	1.00	0.00
ATOM	1988	CA	SER	127	10.387	2.624	-8.169	1.00	0.00
ATOM	1989	HA	SER	127	11.060	3.465	-8.002	1.00	0.00
ATOM	1990	CB	SER	127	10.921	1.796	-9.340	1.00	0.00
ATOM	1991	HB2	SER	127	12.001	1.923	-9.413	1.00	0.00
ATOM	1992	HB3	SER	127	10.691	0.743	-9.176	1.00	0.00
ATOM	1993	OG	SER	127	10.311	2.231	-10.546	1.00	0.00
ATOM	1994	HG	SER	127	10.647	1.711	-11.280	1.00	0.00
ATOM	1995	C	SER	127	8.989	3.146	-8.512	1.00	0.00
ATOM	1996	O	SER	127	8.040	2.684	-7.901	1.00	0.00
ATOM	1997	OXT	SER	127	8.893	4.001	-9.377	1.00	0.00
TER									
ATOM	1998	CI1	LIG	128	-1.688	-19.925	-10.373	1.00	0.00

ATOM	1999	Cl2	LIG	128	-1.582	-21.743	-8.056	1.00	0.00
ATOM	2000	P1	LIG	128	1.706	-18.960	-6.425	1.00	0.00
ATOM	2001	O1	LIG	128	1.427	-19.025	-4.856	1.00	0.00
ATOM	2002	O2	LIG	128	2.899	-19.988	-6.599	1.00	0.00
ATOM	2003	O3	LIG	128	0.375	-19.744	-6.996	1.00	0.00
ATOM	2004	O4	LIG	128	1.920	-17.652	-7.061	1.00	0.00
ATOM	2005	C1	LIG	128	0.393	-18.224	-4.240	1.00	0.00
ATOM	2006	H1	LIG	128	0.513	-18.358	-3.167	1.00	0.00
ATOM	2007	H2	LIG	128	-0.590	-18.581	-4.553	1.00	0.00
ATOM	2008	H3	LIG	128	0.521	-17.174	-4.503	1.00	0.00
ATOM	2009	C2	LIG	128	2.890	-21.326	-6.049	1.00	0.00
ATOM	2010	H4	LIG	128	2.023	-21.879	-6.414	1.00	0.00
ATOM	2011	H5	LIG	128	2.881	-21.280	-4.960	1.00	0.00
ATOM	2012	H6	LIG	128	3.807	-21.794	-6.400	1.00	0.00
ATOM	2013	C3	LIG	128	-0.127	-19.475	-8.243	1.00	0.00
ATOM	2014	H7	LIG	128	0.216	-18.568	-8.726	1.00	0.00
ATOM	2015	C4	LIG	128	-1.016	-20.288	-8.810	1.00	0.00
TER									
ATOM	2016	Cl1	LIG	129	-30.035	10.684	8.969	1.00	0.00
ATOM	2017	Cl2	LIG	129	-29.917	13.575	9.532	1.00	0.00

ATOM	2018	P1	LIG	129	-26.028	13.573	7.063	1.00	0.00
ATOM	2019	O1	LIG	129	-26.100	15.001	6.357	1.00	0.00
ATOM	2020	O2	LIG	129	-25.054	13.848	8.283	1.00	0.00
ATOM	2021	O3	LIG	129	-27.535	13.493	7.725	1.00	0.00
ATOM	2022	O4	LIG	129	-25.691	12.392	6.256	1.00	0.00
ATOM	2023	C1	LIG	129	-26.897	15.217	5.170	1.00	0.00
ATOM	2024	H1	LIG	129	-26.657	16.222	4.829	1.00	0.00
ATOM	2025	H2	LIG	129	-27.957	15.150	5.416	1.00	0.00
ATOM	2026	H3	LIG	129	-26.635	14.489	4.402	1.00	0.00
ATOM	2027	C2	LIG	129	-25.208	14.958	9.197	1.00	0.00
ATOM	2028	H4	LIG	129	-26.195	14.932	9.661	1.00	0.00
ATOM	2029	H5	LIG	129	-25.063	15.899	8.666	1.00	0.00
ATOM	2030	H6	LIG	129	-24.436	14.827	9.951	1.00	0.00
ATOM	2031	C3	LIG	129	-28.148	12.287	7.946	1.00	0.00
ATOM	2032	H7	LIG	129	-27.730	11.423	7.447	1.00	0.00
ATOM	2033	C4	LIG	129	-29.227	12.205	8.723	1.00	0.00
TER									
ATOM	2034	Cl1	LIG	130	17.497	-15.178	23.042	1.00	0.00
ATOM	2035	Cl2	LIG	130	20.159	-14.691	24.209	1.00	0.00
ATOM	2036	P1	LIG	130	17.959	-12.160	27.367	1.00	0.00

ATOM	2037	O1	LIG	130	18.839	-12.441	28.668	1.00	0.00
ATOM	2038	O2	LIG	130	18.516	-10.759	26.878	1.00	0.00
ATOM	2039	O3	LIG	130	18.603	-13.266	26.329	1.00	0.00
ATOM	2040	O4	LIG	130	16.495	-12.245	27.462	1.00	0.00
ATOM	2041	C1	LIG	130	18.663	-13.642	29.454	1.00	0.00
ATOM	2042	H1	LIG	130	19.280	-13.511	30.340	1.00	0.00
ATOM	2043	H2	LIG	130	19.001	-14.511	28.887	1.00	0.00
ATOM	2044	H3	LIG	130	17.616	-13.756	29.740	1.00	0.00
ATOM	2045	C2	LIG	130	19.924	-10.468	26.720	1.00	0.00
ATOM	2046	H4	LIG	130	20.382	-11.178	26.031	1.00	0.00
ATOM	2047	H5	LIG	130	20.422	-10.504	27.690	1.00	0.00
ATOM	2048	H6	LIG	130	19.971	-9.462	26.309	1.00	0.00
ATOM	2049	C3	LIG	130	17.858	-13.797	25.307	1.00	0.00
ATOM	2050	H7	LIG	130	16.785	-13.665	25.361	1.00	0.00
ATOM	2051	C4	LIG	130	18.443	-14.465	24.315	1.00	0.00
TER									
ATOM	2052	Cl1	LIG	131	-9.807	-11.525	23.140	1.00	0.00
ATOM	2053	Cl2	LIG	131	-11.347	-9.229	24.162	1.00	0.00
ATOM	2054	P1	LIG	131	-8.073	-8.876	27.383	1.00	0.00
ATOM	2055	O1	LIG	131	-8.000	-7.295	27.588	1.00	0.00

ATOM	2056	O2	LIG	131	-8.982	-9.332	28.598	1.00	0.00
ATOM	2057	O3	LIG	131	-9.051	-8.958	26.059	1.00	0.00
ATOM	2058	O4	LIG	131	-6.826	-9.636	27.225	1.00	0.00
ATOM	2059	C1	LIG	131	-7.252	-6.451	26.683	1.00	0.00
ATOM	2060	H1	LIG	131	-7.257	-5.459	27.130	1.00	0.00
ATOM	2061	H2	LIG	131	-7.742	-6.424	25.709	1.00	0.00
ATOM	2062	H3	LIG	131	-6.228	-6.813	26.588	1.00	0.00
ATOM	2063	C2	LIG	131	-10.248	-8.714	28.929	1.00	0.00
ATOM	2064	H4	LIG	131	-10.925	-8.757	28.075	1.00	0.00
ATOM	2065	H5	LIG	131	-10.087	-7.679	29.234	1.00	0.00
ATOM	2066	H6	LIG	131	-10.651	-9.293	29.756	1.00	0.00
ATOM	2067	C3	LIG	131	-8.970	-10.009	25.183	1.00	0.00
ATOM	2068	H7	LIG	131	-8.089	-10.635	25.245	1.00	0.00
ATOM	2069	C4	LIG	131	-9.929	-10.220	24.283	1.00	0.00
TER									
ATOM	2070	Cl1	LIG	132	15.954	16.326	3.519	1.00	0.00
ATOM	2071	Cl2	LIG	132	17.202	17.794	1.288	1.00	0.00
ATOM	2072	P1	LIG	132	20.175	19.392	4.422	1.00	0.00
ATOM	2073	O1	LIG	132	21.517	19.487	3.566	1.00	0.00
ATOM	2074	O2	LIG	132	19.654	20.889	4.401	1.00	0.00



ATOM	2075	O3	LIG	132	19.205	18.584	3.364	1.00	0.00
ATOM	2076	O4	LIG	132	20.217	18.771	5.753	1.00	0.00
ATOM	2077	C1	LIG	132	22.342	18.324	3.323	1.00	0.00
ATOM	2078	H1	LIG	132	23.245	18.694	2.843	1.00	0.00
ATOM	2079	H2	LIG	132	21.822	17.632	2.659	1.00	0.00
ATOM	2080	H3	LIG	132	22.592	17.835	4.266	1.00	0.00
ATOM	2081	C2	LIG	132	19.538	21.680	3.195	1.00	0.00
ATOM	2082	H4	LIG	132	18.894	21.176	2.473	1.00	0.00
ATOM	2083	H5	LIG	132	20.527	21.852	2.768	1.00	0.00
ATOM	2084	H6	LIG	132	19.091	22.622	3.504	1.00	0.00
ATOM	2085	C3	LIG	132	18.177	17.792	3.807	1.00	0.00
ATOM	2086	H7	LIG	132	18.185	17.516	4.854	1.00	0.00
ATOM	2087	C4	LIG	132	17.234	17.368	2.969	1.00	0.00
TER									
ATOM	2088	Cl1	LIG	133	27.650	-11.363	25.200	1.00	0.00
ATOM	2089	Cl2	LIG	133	28.681	-10.228	27.717	1.00	0.00
ATOM	2090	P1	LIG	133	28.343	-6.133	25.635	1.00	0.00
ATOM	2091	O1	LIG	133	27.937	-5.189	26.856	1.00	0.00
ATOM	2092	O2	LIG	133	29.902	-5.876	25.514	1.00	0.00
ATOM	2093	O3	LIG	133	28.204	-7.613	26.345	1.00	0.00

ATOM	2094	O4	LIG	133	27.599	-6.029	24.372	1.00	0.00
ATOM	2095	C1	LIG	133	26.571	-5.106	27.323	1.00	0.00
ATOM	2096	H1	LIG	133	26.556	-4.302	28.056	1.00	0.00
ATOM	2097	H2	LIG	133	26.281	-6.046	27.794	1.00	0.00
ATOM	2098	H3	LIG	133	25.902	-4.870	26.495	1.00	0.00
ATOM	2099	C2	LIG	133	30.813	-5.928	26.637	1.00	0.00
ATOM	2100	H4	LIG	133	30.753	-6.900	27.128	1.00	0.00
ATOM	2101	H5	LIG	133	30.577	-5.130	27.343	1.00	0.00
ATOM	2102	H6	LIG	133	31.805	-5.780	26.218	1.00	0.00
ATOM	2103	C3	LIG	133	27.908	-8.729	25.607	1.00	0.00
ATOM	2104	H7	LIG	133	27.522	-8.569	24.607	1.00	0.00
ATOM	2105	C4	LIG	133	28.068	-9.947	26.119	1.00	0.00
TER									
ATOM	2106	Cl1	LIG	134	15.646	-19.854	10.645	1.00	0.00
ATOM	2107	Cl2	LIG	134	18.194	-19.074	9.386	1.00	0.00
ATOM	2108	P1	LIG	134	19.847	-18.755	13.674	1.00	0.00
ATOM	2109	O1	LIG	134	21.354	-19.235	13.469	1.00	0.00
ATOM	2110	O2	LIG	134	19.994	-17.177	13.681	1.00	0.00
ATOM	2111	O3	LIG	134	19.215	-19.122	12.197	1.00	0.00
ATOM	2112	O4	LIG	134	19.065	-19.308	14.788	1.00	0.00

ATOM	2113	C1	LIG	134	21.697	-20.638	13.402	1.00	0.00
ATOM	2114	H1	LIG	134	22.784	-20.679	13.399	1.00	0.00
ATOM	2115	H2	LIG	134	21.304	-21.074	12.482	1.00	0.00
ATOM	2116	H3	LIG	134	21.305	-21.165	14.273	1.00	0.00
ATOM	2117	C2	LIG	134	20.725	-16.435	12.677	1.00	0.00
ATOM	2118	H4	LIG	134	20.327	-16.649	11.684	1.00	0.00
ATOM	2119	H5	LIG	134	21.784	-16.691	12.725	1.00	0.00
ATOM	2120	H6	LIG	134	20.578	-15.386	12.922	1.00	0.00
ATOM	2121	C3	LIG	134	17.885	-19.415	12.048	1.00	0.00
ATOM	2122	H7	LIG	134	17.328	-19.646	12.948	1.00	0.00
ATOM	2123	C4	LIG	134	17.323	-19.437	10.841	1.00	0.00
TER									
ATOM	2124	Cl1	LIG	135	-30.211	-17.289	-6.315	1.00	0.00
ATOM	2125	Cl2	LIG	135	-29.125	-20.020	-6.098	1.00	0.00
ATOM	2126	P1	LIG	135	-29.638	-19.520	-1.548	1.00	0.00
ATOM	2127	O1	LIG	135	-30.027	-21.004	-1.108	1.00	0.00
ATOM	2128	O2	LIG	135	-28.091	-19.463	-1.209	1.00	0.00
ATOM	2129	O3	LIG	135	-29.715	-19.667	-3.187	1.00	0.00
ATOM	2130	O4	LIG	135	-30.427	-18.392	-1.034	1.00	0.00
ATOM	2131	C1	LIG	135	-31.378	-21.501	-1.243	1.00	0.00

ATOM	2132	H1	LIG	135	-31.390	-22.470	-0.748	1.00	0.00
ATOM	2133	H2	LIG	135	-31.628	-21.618	-2.298	1.00	0.00
ATOM	2134	H3	LIG	135	-32.081	-20.824	-0.755	1.00	0.00
ATOM	2135	C2	LIG	135	-27.142	-20.475	-1.619	1.00	0.00
ATOM	2136	H4	LIG	135	-27.161	-20.593	-2.703	1.00	0.00
ATOM	2137	H5	LIG	135	-27.375	-21.421	-1.129	1.00	0.00
ATOM	2138	H6	LIG	135	-26.169	-20.112	-1.298	1.00	0.00
ATOM	2139	C3	LIG	135	-30.007	-18.590	-3.982	1.00	0.00
ATOM	2140	H7	LIG	135	-30.430	-17.720	-3.496	1.00	0.00
ATOM	2141	C4	LIG	135	-29.799	-18.638	-5.297	1.00	0.00
TER									
ATOM	2142	Cl1	LIG	136	19.674	6.315	-19.134	1.00	0.00
ATOM	2143	Cl2	LIG	136	18.384	8.905	-19.691	1.00	0.00
ATOM	2144	P1	LIG	136	20.448	8.687	-23.804	1.00	0.00
ATOM	2145	O1	LIG	136	19.360	9.381	-24.742	1.00	0.00
ATOM	2146	O2	LIG	136	21.471	9.869	-23.542	1.00	0.00
ATOM	2147	O3	LIG	136	19.587	8.545	-22.406	1.00	0.00
ATOM	2148	O4	LIG	136	21.060	7.423	-24.233	1.00	0.00
ATOM	2149	C1	LIG	136	18.214	8.651	-25.237	1.00	0.00
ATOM	2150	H1	LIG	136	17.725	9.312	-25.949	1.00	0.00

ATOM	2151	H2	LIG	136	17.536	8.420	-24.414	1.00	0.00
ATOM	2152	H3	LIG	136	18.536	7.737	-25.736	1.00	0.00
ATOM	2153	C2	LIG	136	21.074	11.193	-23.116	1.00	0.00
ATOM	2154	H4	LIG	136	20.506	11.138	-22.186	1.00	0.00
ATOM	2155	H5	LIG	136	20.479	11.671	-23.896	1.00	0.00
ATOM	2156	H6	LIG	136	22.000	11.741	-22.958	1.00	0.00
ATOM	2157	C3	LIG	136	19.860	7.550	-21.503	1.00	0.00
ATOM	2158	H7	LIG	136	20.472	6.726	-21.849	1.00	0.00
ATOM	2159	C4	LIG	136	19.366	7.598	-20.268	1.00	0.00
TER									
ATOM	2160	Cl1	LIG	137	-30.648	13.136	-29.998	1.00	0.00
ATOM	2161	Cl2	LIG	137	-28.878	11.265	-28.565	1.00	0.00
ATOM	2162	P1	LIG	137	-29.440	14.026	-24.921	1.00	0.00
ATOM	2163	O1	LIG	137	-29.419	12.975	-23.720	1.00	0.00
ATOM	2164	O2	LIG	137	-27.958	14.588	-24.904	1.00	0.00
ATOM	2165	O3	LIG	137	-29.498	13.002	-26.210	1.00	0.00
ATOM	2166	O4	LIG	137	-30.491	15.053	-24.954	1.00	0.00
ATOM	2167	C1	LIG	137	-30.592	12.208	-23.367	1.00	0.00
ATOM	2168	H1	LIG	137	-30.341	11.686	-22.446	1.00	0.00
ATOM	2169	H2	LIG	137	-30.818	11.488	-24.155	1.00	0.00

ATOM	2170	H3	LIG	137	-31.441	12.873	-23.201	1.00	0.00
ATOM	2171	C2	LIG	137	-26.782	13.746	-24.869	1.00	0.00
ATOM	2172	H4	LIG	137	-26.784	13.058	-25.716	1.00	0.00
ATOM	2173	H5	LIG	137	-26.750	13.192	-23.930	1.00	0.00
ATOM	2174	H6	LIG	137	-25.934	14.423	-24.938	1.00	0.00
ATOM	2175	C3	LIG	137	-30.075	13.384	-27.393	1.00	0.00
ATOM	2176	H7	LIG	137	-30.706	14.265	-27.372	1.00	0.00
ATOM	2177	C4	LIG	137	-29.881	12.678	-28.505	1.00	0.00
TER									
END									

**Table B:** The number of atoms present in the system of AH-Nap

ATOM	1	N	GLY	1	24.719	-9.990	-2.261	1.00	0.00
ATOM	2	H1	GLY	1	24.018	-9.275	-2.385	1.00	0.00
ATOM	3	H2	GLY	1	24.334	-10.877	-2.553	1.00	0.00
ATOM	4	H3	GLY	1	25.590	-9.664	-2.656	1.00	0.00
ATOM	5	CA	GLY	1	24.979	-10.135	-0.801	1.00	0.00
ATOM	6	HA2	GLY	1	24.747	-11.151	-0.480	1.00	0.00
ATOM	7	HA3	GLY	1	26.025	-9.917	-0.585	1.00	0.00
ATOM	8	C	GLY	1	24.095	-9.154	-0.027	1.00	0.00
ATOM	9	O	GLY	1	24.566	-8.165	0.500	1.00	0.00

ATOM	10	N	PRO	2	22.788	-9.439	0.039	1.00	0.00
ATOM	11	CD	PRO	2	22.145	-10.615	-0.573	1.00	0.00
ATOM	12	HD2	PRO	2	22.706	-11.513	-0.312	1.00	0.00
ATOM	13	HD3	PRO	2	22.131	-10.499	-1.657	1.00	0.00
ATOM	14	CG	PRO	2	20.766	-10.602	0.022	1.00	0.00
ATOM	15	HG2	PRO	2	20.750	-11.236	0.909	1.00	0.00
ATOM	16	HG3	PRO	2	20.054	-10.984	-0.709	1.00	0.00
ATOM	17	CB	PRO	2	20.470	-9.181	0.362	1.00	0.00
ATOM	18	HB2	PRO	2	19.801	-9.167	1.222	1.00	0.00
ATOM	19	HB3	PRO	2	20.029	-8.604	-0.451	1.00	0.00
ATOM	20	CA	PRO	2	21.824	-8.587	0.748	1.00	0.00
ATOM	21	HA	PRO	2	21.963	-7.560	0.412	1.00	0.00
ATOM	22	C	PRO	2	22.013	-8.657	2.266	1.00	0.00
ATOM	23	O	PRO	2	21.568	-7.794	2.997	1.00	0.00
ATOM	24	N	MET	3	22.669	-9.678	2.745	1.00	0.00
ATOM	25	H	MET	3	23.042	-10.400	2.144	1.00	0.00
ATOM	26	CA	MET	3	22.884	-9.801	4.215	1.00	0.00
ATOM	27	HA	MET	3	21.928	-9.889	4.731	1.00	0.00
ATOM	28	CB	MET	3	23.713	-11.054	4.505	1.00	0.00
ATOM	29	HB2	MET	3	24.646	-11.012	3.942	1.00	0.00
ATOM	30	HB3	MET	3	23.935	-11.106	5.571	1.00	0.00
ATOM	31	CG	MET	3	22.922	-12.296	4.088	1.00	0.00

ATOM	32	HG2 MET	3	22.735	-12.271	3.014	1.00	0.00
ATOM	33	HG3 MET	3	23.488	-13.194	4.337	1.00	0.00
ATOM	34	SD MET	3	21.340	-12.327	4.967	1.00	0.00
ATOM	35	CE MET	3	22.014	-12.405	6.645	1.00	0.00
ATOM	36	HE1 MET	3	22.631	-11.526	6.831	1.00	0.00
ATOM	37	HE2 MET	3	21.196	-12.433	7.365	1.00	0.00
ATOM	38	HE3 MET	3	22.622	-13.304	6.752	1.00	0.00
ATOM	39	C MET	3	23.628	-8.566	4.726	1.00	0.00
ATOM	40	O MET	3	23.382	-8.088	5.816	1.00	0.00
ATOM	41	N ARG	4	24.538	-8.045	3.948	1.00	0.00
ATOM	42	H ARG	4	24.750	-8.438	3.042	1.00	0.00
ATOM	43	CA ARG	4	25.295	-6.841	4.390	1.00	0.00
ATOM	44	HA ARG	4	25.879	-7.069	5.282	1.00	0.00
ATOM	45	CB ARG	4	26.250	-6.401	3.279	1.00	0.00
ATOM	46	HB2 ARG	4	25.687	-6.234	2.361	1.00	0.00
ATOM	47	HB3 ARG	4	26.748	-5.477	3.573	1.00	0.00
ATOM	48	CG ARG	4	27.297	-7.491	3.043	1.00	0.00
ATOM	49	HG2 ARG	4	27.802	-7.720	3.981	1.00	0.00
ATOM	50	HG3 ARG	4	26.809	-8.390	2.666	1.00	0.00
ATOM	51	CD ARG	4	28.322	-7.000	2.019	1.00	0.00
ATOM	52	HD2 ARG	4	28.844	-6.122	2.399	1.00	0.00
ATOM	53	HD3 ARG	4	29.045	-7.787	1.802	1.00	0.00



ATOM	54	NE	ARG	4	27.625	-6.631	0.756	1.00	0.00
ATOM	55	HE	ARG	4	27.278	-7.336	0.121	1.00	0.00
ATOM	56	CZ	ARG	4	27.451	-5.374	0.448	1.00	0.00
ATOM	57	NH1	ARG	4	28.450	-4.538	0.532	1.00	0.00
ATOM	58	HH11	ARG	4	29.356	-4.867	0.835	1.00	0.00
ATOM	59	HH12	ARG	4	28.313	-3.567	0.293	1.00	0.00
ATOM	60	NH2	ARG	4	26.280	-4.953	0.057	1.00	0.00
ATOM	61	HH21	ARG	4	25.509	-5.603	-0.007	1.00	0.00
ATOM	62	HH22	ARG	4	26.150	-3.980	-0.180	1.00	0.00
ATOM	63	C	ARG	4	24.316	-5.707	4.698	1.00	0.00
ATOM	64	O	ARG	4	24.511	-4.937	5.617	1.00	0.00
ATOM	65	N	ARG	5	23.262	-5.598	3.935	1.00	0.00
ATOM	66	H	ARG	5	23.094	-6.234	3.168	1.00	0.00
ATOM	67	CA	ARG	5	22.271	-4.514	4.185	1.00	0.00
ATOM	68	HA	ARG	5	22.743	-3.538	4.078	1.00	0.00
ATOM	69	CB	ARG	5	21.132	-4.621	3.168	1.00	0.00
ATOM	70	HB2	ARG	5	20.680	-5.611	3.231	1.00	0.00
ATOM	71	HB3	ARG	5	20.379	-3.863	3.384	1.00	0.00
ATOM	72	CG	ARG	5	21.685	-4.403	1.758	1.00	0.00
ATOM	73	HG2	ARG	5	22.197	-3.442	1.712	1.00	0.00
ATOM	74	HG3	ARG	5	22.388	-5.201	1.515	1.00	0.00
ATOM	75	CD	ARG	5	20.533	-4.415	0.752	1.00	0.00

ATOM	76	HD2 ARG	5	19.935	-5.318	0.874	1.00	0.00
ATOM	77	HD3 ARG	5	19.901	-3.539	0.892	1.00	0.00
ATOM	78	NE ARG	5	21.083	-4.391	-0.633	1.00	0.00
ATOM	79	HE ARG	5	21.610	-3.602	-0.978	1.00	0.00
ATOM	80	CZ ARG	5	20.888	-5.406	-1.430	1.00	0.00
ATOM	81	NH1 ARG	5	19.687	-5.893	-1.586	1.00	0.00
ATOM	82	HH11 ARG	5	18.910	-5.482	-1.088	1.00	0.00
ATOM	83	HH12 ARG	5	19.540	-6.679	-2.204	1.00	0.00
ATOM	84	NH2 ARG	5	21.894	-5.934	-2.071	1.00	0.00
ATOM	85	HH21 ARG	5	22.822	-5.555	-1.948	1.00	0.00
ATOM	86	HH22 ARG	5	21.740	-6.720	-2.687	1.00	0.00
ATOM	87	C ARG	5	21.707	-4.652	5.600	1.00	0.00
ATOM	88	O ARG	5	21.355	-3.678	6.235	1.00	0.00
ATOM	89	N GLU	6	21.617	-5.855	6.098	1.00	0.00
ATOM	90	H GLU	6	21.907	-6.670	5.575	1.00	0.00
ATOM	91	CA GLU	6	21.075	-6.053	7.472	1.00	0.00
ATOM	92	HA GLU	6	20.051	-5.685	7.531	1.00	0.00
ATOM	93	CB GLU	6	21.079	-7.545	7.813	1.00	0.00
ATOM	94	HB2 GLU	6	22.090	-7.940	7.708	1.00	0.00
ATOM	95	HB3 GLU	6	20.740	-7.685	8.840	1.00	0.00
ATOM	96	CG GLU	6	20.140	-8.288	6.861	1.00	0.00
ATOM	97	HG2 GLU	6	19.135	-7.875	6.942	1.00	0.00

ATOM	98	HG3	GLU	6	20.497	-8.175	5.837	1.00	0.00
ATOM	99	CD	GLU	6	20.112	-9.772	7.229	1.00	0.00
ATOM	100	OE1	GLU	6	20.910	-10.173	8.060	1.00	0.00
ATOM	101	OE2	GLU	6	19.290	-10.484	6.674	1.00	0.00
ATOM	102	C	GLU	6	21.947	-5.297	8.477	1.00	0.00
ATOM	103	O	GLU	6	21.472	-4.820	9.489	1.00	0.00
ATOM	104	N	ARG	7	23.218	-5.183	8.207	1.00	0.00
ATOM	105	H	ARG	7	23.620	-5.578	7.368	1.00	0.00
ATOM	106	CA	ARG	7	24.117	-4.457	9.147	1.00	0.00
ATOM	107	HA	ARG	7	24.219	-5.014	10.078	1.00	0.00
ATOM	108	CB	ARG	7	25.502	-4.304	8.515	1.00	0.00
ATOM	109	HB2	ARG	7	25.873	-5.283	8.211	1.00	0.00
ATOM	110	HB3	ARG	7	25.434	-3.655	7.642	1.00	0.00
ATOM	111	CG	ARG	7	26.463	-3.689	9.534	1.00	0.00
ATOM	112	HG2	ARG	7	26.075	-2.726	9.865	1.00	0.00
ATOM	113	HG3	ARG	7	26.560	-4.356	10.391	1.00	0.00
ATOM	114	CD	ARG	7	27.835	-3.490	8.886	1.00	0.00
ATOM	115	HD2	ARG	7	28.197	-4.431	8.471	1.00	0.00
ATOM	116	HD3	ARG	7	27.774	-2.744	8.094	1.00	0.00
ATOM	117	NE	ARG	7	28.805	-3.017	9.914	1.00	0.00
ATOM	118	HE	ARG	7	29.233	-3.656	10.570	1.00	0.00
ATOM	119	CZ	ARG	7	29.119	-1.752	9.981	1.00	0.00

ATOM	120	NH1	ARG	7	28.528	-0.979	10.850	1.00	0.00
ATOM	121	HH11	ARG	7	27.829	-1.363	11.469	1.00	0.00
ATOM	122	HH12	ARG	7	28.773	-0.001	10.900	1.00	0.00
ATOM	123	NH2	ARG	7	30.024	-1.261	9.179	1.00	0.00
ATOM	124	HH21	ARG	7	30.480	-1.863	8.508	1.00	0.00
ATOM	125	HH22	ARG	7	30.265	-0.282	9.233	1.00	0.00
ATOM	126	C	ARG	7	23.536	-3.073	9.442	1.00	0.00
ATOM	127	O	ARG	7	23.557	-2.604	10.563	1.00	0.00
ATOM	128	N	GLY	8	23.015	-2.414	8.443	1.00	0.00
ATOM	129	H	GLY	8	22.993	-2.797	7.509	1.00	0.00
ATOM	130	CA	GLY	8	22.433	-1.060	8.666	1.00	0.00
ATOM	131	HA2	GLY	8	23.209	-0.372	9.000	1.00	0.00
ATOM	132	HA3	GLY	8	21.991	-0.688	7.742	1.00	0.00
ATOM	133	C	GLY	8	21.346	-1.144	9.739	1.00	0.00
ATOM	134	O	GLY	8	21.132	-0.215	10.492	1.00	0.00
ATOM	135	N	ARG	9	20.655	-2.249	9.814	1.00	0.00
ATOM	136	H	ARG	9	20.825	-3.025	9.190	1.00	0.00
ATOM	137	CA	ARG	9	19.583	-2.389	10.840	1.00	0.00
ATOM	138	HA	ARG	9	18.783	-1.674	10.651	1.00	0.00
ATOM	139	CB	ARG	9	19.001	-3.802	10.779	1.00	0.00
ATOM	140	HB2	ARG	9	18.638	-4.004	9.771	1.00	0.00
ATOM	141	HB3	ARG	9	19.774	-4.526	11.037	1.00	0.00

ATOM	142	CG	ARG	9	17.842	-3.918	11.772	1.00	0.00
ATOM	143	HG2	ARG	9	18.197	-3.680	12.775	1.00	0.00
ATOM	144	HG3	ARG	9	17.052	-3.222	11.491	1.00	0.00
ATOM	145	CD	ARG	9	17.294	-5.347	11.752	1.00	0.00
ATOM	146	HD2	ARG	9	17.011	-5.629	10.738	1.00	0.00
ATOM	147	HD3	ARG	9	18.044	-6.045	12.126	1.00	0.00
ATOM	148	NE	ARG	9	16.089	-5.429	12.625	1.00	0.00
ATOM	149	HE	ARG	9	15.236	-4.941	12.395	1.00	0.00
ATOM	150	CZ	ARG	9	16.122	-6.145	13.715	1.00	0.00
ATOM	151	NH1	ARG	9	16.596	-7.360	13.685	1.00	0.00
ATOM	152	HH11	ARG	9	16.937	-7.745	12.815	1.00	0.00
ATOM	153	HH12	ARG	9	16.620	-7.911	14.531	1.00	0.00
ATOM	154	NH2	ARG	9	15.681	-5.644	14.837	1.00	0.00
ATOM	155	HH21	ARG	9	15.316	-4.703	14.857	1.00	0.00
ATOM	156	HH22	ARG	9	15.708	-6.200	15.680	1.00	0.00
ATOM	157	C	ARG	9	20.173	-2.138	12.229	1.00	0.00
ATOM	158	O	ARG	9	19.524	-1.593	13.100	1.00	0.00
ATOM	159	N	GLN	10	21.399	-2.533	12.444	1.00	0.00
ATOM	160	H	GLN	10	21.945	-2.987	11.725	1.00	0.00
ATOM	161	CA	GLN	10	22.028	-2.317	13.777	1.00	0.00
ATOM	162	HA	GLN	10	21.513	-2.903	14.539	1.00	0.00
ATOM	163	CB	GLN	10	23.491	-2.761	13.726	1.00	0.00

ATOM	164	HB2	GLN	10	23.998	-2.251	12.907	1.00	0.00
ATOM	165	HB3	GLN	10	23.981	-2.511	14.667	1.00	0.00
ATOM	166	CG	GLN	10	23.558	-4.274	13.504	1.00	0.00
ATOM	167	HG2	GLN	10	22.978	-4.794	14.267	1.00	0.00
ATOM	168	HG3	GLN	10	23.171	-4.530	12.517	1.00	0.00
ATOM	169	CD	GLN	10	25.012	-4.739	13.594	1.00	0.00
ATOM	170	OE1	GLN	10	25.673	-4.991	12.497	1.00	0.00
ATOM	171	NE2	GLN	10	25.553	-4.875	14.673	1.00	0.00
ATOM	172	HE21	GLN	10	26.514	-5.183	14.717	1.00	0.00
ATOM	173	HE22	GLN	10	25.039	-4.680	15.520	1.00	0.00
ATOM	174	C	GLN	10	21.958	-0.832	14.139	1.00	0.00
ATOM	175	O	GLN	10	21.800	-0.471	15.288	1.00	0.00
ATOM	176	N	GLY	11	22.075	0.031	13.168	1.00	0.00
ATOM	177	H	GLY	11	22.207	-0.263	12.211	1.00	0.00
ATOM	178	CA	GLY	11	22.016	1.492	13.457	1.00	0.00
ATOM	179	HA2	GLY	11	22.886	1.791	14.042	1.00	0.00
ATOM	180	HA3	GLY	11	21.994	2.055	12.524	1.00	0.00
ATOM	181	C	GLY	11	20.748	1.802	14.256	1.00	0.00
ATOM	182	O	GLY	11	20.741	2.657	15.118	1.00	0.00
ATOM	183	N	ASP	12	19.676	1.113	13.975	1.00	0.00
ATOM	184	H	ASP	12	19.674	0.401	13.258	1.00	0.00
ATOM	185	CA	ASP	12	18.411	1.370	14.720	1.00	0.00

ATOM	186	HA	ASP	12	17.601	0.767	14.308	1.00	0.00
ATOM	187	CB	ASP	12	18.599	0.996	16.191	1.00	0.00
ATOM	188	HB2	ASP	12	19.452	1.539	16.599	1.00	0.00
ATOM	189	HB3	ASP	12	17.701	1.257	16.750	1.00	0.00
ATOM	190	CG	ASP	12	18.851	-0.509	16.306	1.00	0.00
ATOM	191	OD1	ASP	12	18.613	-1.205	15.333	1.00	0.00
ATOM	192	OD2	ASP	12	19.278	-0.939	17.365	1.00	0.00
ATOM	193	C	ASP	12	18.047	2.852	14.613	1.00	0.00
ATOM	194	O	ASP	12	17.729	3.495	15.593	1.00	0.00
ATOM	195	N	SER	13	18.092	3.400	13.429	1.00	0.00
ATOM	196	H	SER	13	18.356	2.872	12.609	1.00	0.00
ATOM	197	CA	SER	13	17.748	4.840	13.262	1.00	0.00
ATOM	198	HA	SER	13	18.461	5.464	13.801	1.00	0.00
ATOM	199	CB	SER	13	17.801	5.208	11.778	1.00	0.00
ATOM	200	HB2	SER	13	17.039	4.647	11.236	1.00	0.00
ATOM	201	HB3	SER	13	17.618	6.276	11.661	1.00	0.00
ATOM	202	OG	SER	13	19.083	4.888	11.257	1.00	0.00
ATOM	203	HG	SER	13	19.117	5.118	10.326	1.00	0.00
ATOM	204	C	SER	13	16.338	5.091	13.800	1.00	0.00
ATOM	205	O	SER	13	16.065	6.112	14.400	1.00	0.00
ATOM	206	N	SER	14	15.441	4.167	13.590	1.00	0.00
ATOM	207	H	SER	14	15.663	3.315	13.093	1.00	0.00

ATOM	208	CA	SER	14	14.048	4.352	14.090	1.00	0.00
ATOM	209	HA	SER	14	14.051	4.934	15.011	1.00	0.00
ATOM	210	CB	SER	14	13.225	5.101	13.040	1.00	0.00
ATOM	211	HB2	SER	14	13.642	6.097	12.894	1.00	0.00
ATOM	212	HB3	SER	14	13.253	4.554	12.097	1.00	0.00
ATOM	213	OG	SER	14	11.880	5.211	13.484	1.00	0.00
ATOM	214	HG	SER	14	11.363	5.680	12.825	1.00	0.00
ATOM	215	C	SER	14	13.418	2.982	14.350	1.00	0.00
ATOM	216	O	SER	14	13.507	2.082	13.540	1.00	0.00
ATOM	217	N	SER	15	12.782	2.817	15.479	1.00	0.00
ATOM	218	H	SER	15	12.705	3.559	16.160	1.00	0.00
ATOM	219	CA	SER	15	12.149	1.505	15.790	1.00	0.00
ATOM	220	HA	SER	15	12.833	0.689	15.555	1.00	0.00
ATOM	221	CB	SER	15	11.809	1.444	17.281	1.00	0.00
ATOM	222	HB2	SER	15	11.472	0.439	17.537	1.00	0.00
ATOM	223	HB3	SER	15	12.695	1.689	17.867	1.00	0.00
ATOM	224	OG	SER	15	10.778	2.377	17.569	1.00	0.00
ATOM	225	HG	SER	15	10.565	2.339	18.504	1.00	0.00
ATOM	226	C	SER	15	10.869	1.344	14.967	1.00	0.00
ATOM	227	O	SER	15	10.449	0.245	14.665	1.00	0.00
ATOM	228	N	CYX	16	10.246	2.432	14.600	1.00	0.00
ATOM	229	H	CYX	16	10.588	3.349	14.847	1.00	0.00



ATOM	230	CA	CYX	16	8.996	2.337	13.794	1.00	0.00
ATOM	231	HA	CYX	16	8.235	1.781	14.342	1.00	0.00
ATOM	232	CB	CYX	16	8.464	3.742	13.507	1.00	0.00
ATOM	233	HB2	CYX	16	8.487	4.333	14.422	1.00	0.00
ATOM	234	HB3	CYX	16	9.087	4.219	12.751	1.00	0.00
ATOM	235	SG	CYX	16	6.741	3.636	12.960	1.00	0.00
ATOM	236	C	CYX	16	9.297	1.626	12.473	1.00	0.00
ATOM	237	O	CYX	16	8.427	1.040	11.860	1.00	0.00
ATOM	238	N	GLU	17	10.523	1.673	12.030	1.00	0.00
ATOM	239	H	GLU	17	11.251	2.158	12.534	1.00	0.00
ATOM	240	CA	GLU	17	10.879	1.000	10.750	1.00	0.00
ATOM	241	HA	GLU	17	10.279	1.399	9.932	1.00	0.00
ATOM	242	CB	GLU	17	12.356	1.248	10.439	1.00	0.00
ATOM	243	HB2	GLU	17	12.947	1.115	11.346	1.00	0.00
ATOM	244	HB3	GLU	17	12.692	0.541	9.680	1.00	0.00
ATOM	245	CG	GLU	17	12.534	2.677	9.919	1.00	0.00
ATOM	246	HG2	GLU	17	11.908	2.824	9.039	1.00	0.00
ATOM	247	HG3	GLU	17	12.243	3.385	10.694	1.00	0.00
ATOM	248	CD	GLU	17	14.000	2.904	9.545	1.00	0.00
ATOM	249	OE1	GLU	17	14.771	1.966	9.653	1.00	0.00
ATOM	250	OE2	GLU	17	14.326	4.014	9.157	1.00	0.00
ATOM	251	C	GLU	17	10.629	-0.504	10.879	1.00	0.00

ATOM	252	O	GLU	17	10.013	-1.115	10.028	1.00	0.00
ATOM	253	N	ARG	18	11.102	-1.106	11.936	1.00	0.00
ATOM	254	H	ARG	18	11.614	-0.605	12.648	1.00	0.00
ATOM	255	CA	ARG	18	10.891	-2.571	12.117	1.00	0.00
ATOM	256	HA	ARG	18	11.472	-3.130	11.383	1.00	0.00
ATOM	257	CB	ARG	18	11.347	-2.984	13.518	1.00	0.00
ATOM	258	HB2	ARG	18	12.402	-2.740	13.645	1.00	0.00
ATOM	259	HB3	ARG	18	10.759	-2.451	14.265	1.00	0.00
ATOM	260	CG	ARG	18	11.149	-4.491	13.694	1.00	0.00
ATOM	261	HG2	ARG	18	10.101	-4.742	13.533	1.00	0.00
ATOM	262	HG3	ARG	18	11.765	-5.026	12.971	1.00	0.00
ATOM	263	CD	ARG	18	11.558	-4.897	15.112	1.00	0.00
ATOM	264	HD2	ARG	18	11.629	-5.982	15.188	1.00	0.00
ATOM	265	HD3	ARG	18	12.519	-4.452	15.369	1.00	0.00
ATOM	266	NE	ARG	18	10.534	-4.416	16.082	1.00	0.00
ATOM	267	HE	ARG	18	9.776	-3.815	15.793	1.00	0.00
ATOM	268	CZ	ARG	18	10.606	-4.769	17.337	1.00	0.00
ATOM	269	NH1	ARG	18	11.106	-3.947	18.219	1.00	0.00
ATOM	270	HH11	ARG	18	11.437	-3.039	17.927	1.00	0.00
ATOM	271	HH12	ARG	18	11.160	-4.224	19.189	1.00	0.00
ATOM	272	NH2	ARG	18	10.179	-5.945	17.708	1.00	0.00
ATOM	273	HH21	ARG	18	9.794	-6.579	17.022	1.00	0.00

ATOM	274	HH22	ARG	18	10.236	-6.217	18.679	1.00	0.00
ATOM	275	C	ARG	18	9.405	-2.896	11.949	1.00	0.00
ATOM	276	O	ARG	18	9.033	-4.022	11.682	1.00	0.00
ATOM	277	N	GLN	19	8.552	-1.921	12.106	1.00	0.00
ATOM	278	H	GLN	19	8.853	-0.984	12.330	1.00	0.00
ATOM	279	CA	GLN	19	7.093	-2.178	11.958	1.00	0.00
ATOM	280	HA	GLN	19	6.821	-3.110	12.454	1.00	0.00
ATOM	281	CB	GLN	19	6.306	-1.034	12.600	1.00	0.00
ATOM	282	HB2	GLN	19	6.703	-0.080	12.254	1.00	0.00
ATOM	283	HB3	GLN	19	5.256	-1.114	12.321	1.00	0.00
ATOM	284	CG	GLN	19	6.437	-1.118	14.122	1.00	0.00
ATOM	285	HG2	GLN	19	6.178	-2.119	14.468	1.00	0.00
ATOM	286	HG3	GLN	19	7.456	-0.881	14.428	1.00	0.00
ATOM	287	CD	GLN	19	5.485	-0.114	14.774	1.00	0.00
ATOM	288	OE1	GLN	19	5.006	0.796	14.127	1.00	0.00
ATOM	289	NE2	GLN	19	5.188	-0.240	16.039	1.00	0.00
ATOM	290	HE21	GLN	19	4.560	0.419	16.475	1.00	0.00
ATOM	291	HE22	GLN	19	5.588	-0.997	16.575	1.00	0.00
ATOM	292	C	GLN	19	6.737	-2.273	10.472	1.00	0.00
ATOM	293	O	GLN	19	5.706	-2.801	10.105	1.00	0.00
ATOM	294	N	VAL	20	7.581	-1.769	9.613	1.00	0.00
ATOM	295	H	VAL	20	8.440	-1.327	9.908	1.00	0.00

ATOM	296	CA	VAL	20	7.285	-1.835	8.154	1.00	0.00
ATOM	297	HA	VAL	20	6.247	-1.562	7.967	1.00	0.00
ATOM	298	CB	VAL	20	8.192	-0.858	7.401	1.00	0.00
ATOM	299	HB	VAL	20	8.200	0.100	7.919	1.00	0.00
ATOM	300	CG1	VAL	20	9.615	-1.417	7.341	1.00	0.00
ATOM	301	HG11	VAL	20	9.608	-2.376	6.822	1.00	0.00
ATOM	302	HG12	VAL	20	10.258	-0.720	6.804	1.00	0.00
ATOM	303	HG13	VAL	20	9.995	-1.555	8.353	1.00	0.00
ATOM	304	CG2	VAL	20	7.662	-0.664	5.979	1.00	0.00
ATOM	305	HG21	VAL	20	6.650	-0.263	6.020	1.00	0.00
ATOM	306	HG22	VAL	20	8.307	0.031	5.442	1.00	0.00
ATOM	307	HG23	VAL	20	7.651	-1.623	5.461	1.00	0.00
ATOM	308	C	VAL	20	7.534	-3.259	7.650	1.00	0.00
ATOM	309	O	VAL	20	6.879	-3.728	6.739	1.00	0.00
ATOM	310	N	ASP	21	8.474	-3.951	8.235	1.00	0.00
ATOM	311	H	ASP	21	9.023	-3.567	8.991	1.00	0.00
ATOM	312	CA	ASP	21	8.762	-5.343	7.790	1.00	0.00
ATOM	313	HA	ASP	21	9.175	-5.340	6.781	1.00	0.00
ATOM	314	CB	ASP	21	9.783	-5.979	8.733	1.00	0.00
ATOM	315	HB2	ASP	21	9.473	-5.822	9.766	1.00	0.00
ATOM	316	HB3	ASP	21	9.847	-7.049	8.532	1.00	0.00
ATOM	317	CG	ASP	21	11.154	-5.336	8.509	1.00	0.00

ATOM	318	OD1	ASP	21	11.273	-4.552	7.581	1.00	0.00
ATOM	319	OD2	ASP	21	12.059	-5.638	9.268	1.00	0.00
ATOM	320	C	ASP	21	7.470	-6.163	7.808	1.00	0.00
ATOM	321	O	ASP	21	7.288	-7.070	7.021	1.00	0.00
ATOM	322	N	ARG	22	6.572	-5.849	8.700	1.00	0.00
ATOM	323	H	ARG	22	6.717	-5.097	9.358	1.00	0.00
ATOM	324	CA	ARG	22	5.292	-6.610	8.767	1.00	0.00
ATOM	325	HA	ARG	22	5.479	-7.677	8.639	1.00	0.00
ATOM	326	CB	ARG	22	4.637	-6.388	10.133	1.00	0.00
ATOM	327	HB2	ARG	22	5.357	-6.607	10.922	1.00	0.00
ATOM	328	HB3	ARG	22	4.312	-5.352	10.216	1.00	0.00
ATOM	329	CG	ARG	22	3.429	-7.314	10.275	1.00	0.00
ATOM	330	HG2	ARG	22	2.755	-7.165	9.432	1.00	0.00
ATOM	331	HG3	ARG	22	3.765	-8.351	10.291	1.00	0.00
ATOM	332	CD	ARG	22	2.693	-6.996	11.579	1.00	0.00
ATOM	333	HD2	ARG	22	3.391	-6.997	12.416	1.00	0.00
ATOM	334	HD3	ARG	22	2.209	-6.022	11.511	1.00	0.00
ATOM	335	NE	ARG	22	1.650	-8.032	11.826	1.00	0.00
ATOM	336	HE	ARG	22	1.525	-8.450	12.737	1.00	0.00
ATOM	337	CZ	ARG	22	0.873	-8.419	10.851	1.00	0.00
ATOM	338	NH1	ARG	22	-0.361	-7.996	10.793	1.00	0.00
ATOM	339	HH11	ARG	22	-0.711	-7.370	11.504	1.00	0.00

ATOM	340	HH12	ARG	22	-0.960	-8.298	10.037	1.00	0.00
ATOM	341	NH2	ARG	22	1.328	-9.229	9.935	1.00	0.00
ATOM	342	HH21	ARG	22	2.283	-9.556	9.983	1.00	0.00
ATOM	343	HH22	ARG	22	0.724	-9.526	9.182	1.00	0.00
ATOM	344	C	ARG	22	4.354	-6.123	7.664	1.00	0.00
ATOM	345	O	ARG	22	3.400	-6.786	7.308	1.00	0.00
ATOM	346	N	VAL	23	4.616	-4.967	7.118	1.00	0.00
ATOM	347	H	VAL	23	5.407	-4.411	7.410	1.00	0.00
ATOM	348	CA	VAL	23	3.740	-4.436	6.036	1.00	0.00
ATOM	349	HA	VAL	23	2.818	-4.037	6.457	1.00	0.00
ATOM	350	CB	VAL	23	4.468	-3.311	5.297	1.00	0.00
ATOM	351	HB	VAL	23	5.475	-3.638	5.037	1.00	0.00
ATOM	352	CG1	VAL	23	3.701	-2.960	4.020	1.00	0.00
ATOM	353	HG11	VAL	23	2.694	-2.633	4.279	1.00	0.00
ATOM	354	HG12	VAL	23	4.219	-2.159	3.493	1.00	0.00
ATOM	355	HG13	VAL	23	3.643	-3.839	3.377	1.00	0.00
ATOM	356	CG2	VAL	23	4.550	-2.078	6.199	1.00	0.00
ATOM	357	HG21	VAL	23	5.097	-2.329	7.108	1.00	0.00
ATOM	358	HG22	VAL	23	5.069	-1.277	5.673	1.00	0.00
ATOM	359	HG23	VAL	23	3.544	-1.750	6.459	1.00	0.00
ATOM	360	C	VAL	23	3.406	-5.559	5.053	1.00	0.00
ATOM	361	O	VAL	23	2.368	-6.184	5.138	1.00	0.00

ATOM	362	N	ASN	24	4.279	-5.819	4.121	1.00	0.00
ATOM	363	H	ASN	24	5.144	-5.304	4.046	1.00	0.00
ATOM	364	CA	ASN	24	4.013	-6.900	3.132	1.00	0.00
ATOM	365	HA	ASN	24	4.783	-6.906	2.361	1.00	0.00
ATOM	366	CB	ASN	24	4.024	-8.254	3.844	1.00	0.00
ATOM	367	HB2	ASN	24	3.255	-8.282	4.615	1.00	0.00
ATOM	368	HB3	ASN	24	3.851	-9.059	3.129	1.00	0.00
ATOM	369	CG	ASN	24	5.387	-8.472	4.505	1.00	0.00
ATOM	370	OD1	ASN	24	6.355	-7.825	4.155	1.00	0.00
ATOM	371	ND2	ASN	24	5.505	-9.362	5.452	1.00	0.00
ATOM	372	HD21	ASN	24	6.402	-9.511	5.892	1.00	0.00
ATOM	373	HD22	ASN	24	4.699	-9.898	5.740	1.00	0.00
ATOM	374	C	ASN	24	2.644	-6.672	2.486	1.00	0.00
ATOM	375	O	ASN	24	1.682	-7.346	2.794	1.00	0.00
ATOM	376	N	LEU	25	2.550	-5.727	1.592	1.00	0.00
ATOM	377	H	LEU	25	3.347	-5.165	1.330	1.00	0.00
ATOM	378	CA	LEU	25	1.244	-5.456	0.927	1.00	0.00
ATOM	379	HA	LEU	25	0.449	-6.027	1.407	1.00	0.00
ATOM	380	CB	LEU	25	0.914	-3.966	1.042	1.00	0.00
ATOM	381	HB2	LEU	25	1.806	-3.379	0.824	1.00	0.00
ATOM	382	HB3	LEU	25	0.129	-3.712	0.330	1.00	0.00
ATOM	383	CG	LEU	25	0.434	-3.657	2.462	1.00	0.00

ATOM	384	HG	LEU	25	1.074	-4.169	3.181	1.00	0.00
ATOM	385	CD1	LEU	25	0.497	-2.149	2.706	1.00	0.00
ATOM	386	HD11	LEU	25	-0.143	-1.638	1.987	1.00	0.00
ATOM	387	HD12	LEU	25	0.155	-1.930	3.717	1.00	0.00
ATOM	388	HD13	LEU	25	1.524	-1.804	2.587	1.00	0.00
ATOM	389	CD2	LEU	25	-1.009	-4.141	2.629	1.00	0.00
ATOM	390	HD21	LEU	25	-1.054	-5.217	2.456	1.00	0.00
ATOM	391	HD22	LEU	25	-1.351	-3.922	3.640	1.00	0.00
ATOM	392	HD23	LEU	25	-1.649	-3.631	1.910	1.00	0.00
ATOM	393	C	LEU	25	1.336	-5.845	-0.550	1.00	0.00
ATOM	394	O	LEU	25	1.308	-5.004	-1.427	1.00	0.00
ATOM	395	N	LYS	26	1.445	-7.115	-0.832	1.00	0.00
ATOM	396	H	LYS	26	1.473	-7.816	-0.105	1.00	0.00
ATOM	397	CA	LYS	26	1.541	-7.563	-2.250	1.00	0.00
ATOM	398	HA	LYS	26	2.330	-7.018	-2.768	1.00	0.00
ATOM	399	CB	LYS	26	1.873	-9.056	-2.288	1.00	0.00
ATOM	400	HB2	LYS	26	2.730	-9.255	-1.645	1.00	0.00
ATOM	401	HB3	LYS	26	1.015	-9.629	-1.937	1.00	0.00
ATOM	402	CG	LYS	26	2.207	-9.467	-3.724	1.00	0.00
ATOM	403	HG2	LYS	26	1.640	-10.360	-3.988	1.00	0.00
ATOM	404	HG3	LYS	26	1.946	-8.657	-4.404	1.00	0.00
ATOM	405	CD	LYS	26	3.704	-9.763	-3.835	1.00	0.00



ATOM	406	HD2 LYS	26	4.099	-9.308	-4.743	1.00	0.00
ATOM	407	HD3 LYS	26	4.221	-9.352	-2.968	1.00	0.00
ATOM	408	CE LYS	26	3.923	-11.277	-3.888	1.00	0.00
ATOM	409	HE2 LYS	26	4.238	-11.634	-2.907	1.00	0.00
ATOM	410	HE3 LYS	26	2.993	-11.770	-4.172	1.00	0.00
ATOM	411	NZ LYS	26	4.978	-11.592	-4.892	1.00	0.00
ATOM	412	HZ1 LYS	26	5.840	-11.137	-4.629	1.00	0.00
ATOM	413	HZ2 LYS	26	5.122	-12.591	-4.927	1.00	0.00
ATOM	414	HZ3 LYS	26	4.687	-11.263	-5.801	1.00	0.00
ATOM	415	C LYS	26	0.214	-7.318	-2.980	1.00	0.00
ATOM	416	O LYS	26	0.203	-6.964	-4.142	1.00	0.00
ATOM	417	N PRO	27	-0.931	-7.515	-2.298	1.00	0.00
ATOM	418	CD PRO	27	-1.040	-7.940	-0.888	1.00	0.00
ATOM	419	HD2 PRO	27	-0.351	-7.358	-0.276	1.00	0.00
ATOM	420	HD3 PRO	27	-0.792	-8.999	-0.805	1.00	0.00
ATOM	421	CG PRO	27	-2.479	-7.661	-0.561	1.00	0.00
ATOM	422	HG2 PRO	27	-2.572	-6.653	-0.159	1.00	0.00
ATOM	423	HG3 PRO	27	-2.830	-8.381	0.179	1.00	0.00
ATOM	424	CB PRO	27	-3.226	-7.807	-1.841	1.00	0.00
ATOM	425	HB2 PRO	27	-4.100	-7.158	-1.811	1.00	0.00
ATOM	426	HB3 PRO	27	-3.539	-8.828	-2.063	1.00	0.00
ATOM	427	CA PRO	27	-2.252	-7.317	-2.911	1.00	0.00

ATOM	428	HA	PRO	27	-2.296	-7.905	-3.828	1.00	0.00
ATOM	429	C	PRO	27	-2.513	-5.843	-3.237	1.00	0.00
ATOM	430	O	PRO	27	-3.060	-5.516	-4.272	1.00	0.00
ATOM	431	N	CYX	28	-2.117	-4.950	-2.372	1.00	0.00
ATOM	432	H	CYX	28	-1.655	-5.208	-1.511	1.00	0.00
ATOM	433	CA	CYX	28	-2.338	-3.503	-2.650	1.00	0.00
ATOM	434	HA	CYX	28	-3.392	-3.314	-2.850	1.00	0.00
ATOM	435	CB	CYX	28	-1.915	-2.677	-1.433	1.00	0.00
ATOM	436	HB2	CYX	28	-1.254	-3.272	-0.802	1.00	0.00
ATOM	437	HB3	CYX	28	-1.390	-1.782	-1.766	1.00	0.00
ATOM	438	SG	CYX	28	-3.375	-2.273	-0.442	1.00	0.00
ATOM	439	C	CYX	28	-1.492	-3.105	-3.860	1.00	0.00
ATOM	440	O	CYX	28	-1.996	-2.620	-4.858	1.00	0.00
ATOM	441	N	GLU	29	-0.206	-3.317	-3.787	1.00	0.00
ATOM	442	H	GLU	29	0.221	-3.723	-2.966	1.00	0.00
ATOM	443	CA	GLU	29	0.669	-2.966	-4.935	1.00	0.00
ATOM	444	HA	GLU	29	0.721	-1.884	-5.052	1.00	0.00
ATOM	445	CB	GLU	29	2.080	-3.499	-4.687	1.00	0.00
ATOM	446	HB2	GLU	29	2.319	-3.417	-3.627	1.00	0.00
ATOM	447	HB3	GLU	29	2.133	-4.545	-4.991	1.00	0.00
ATOM	448	CG	GLU	29	3.084	-2.682	-5.500	1.00	0.00
ATOM	449	HG2	GLU	29	2.810	-2.714	-6.555	1.00	0.00

ATOM	450	HG3	GLU	29	3.075	-1.649	-5.154	1.00	0.00
ATOM	451	CD	GLU	29	4.486	-3.267	-5.320	1.00	0.00
ATOM	452	OE1	GLU	29	4.617	-4.217	-4.564	1.00	0.00
ATOM	453	OE2	GLU	29	5.404	-2.758	-5.940	1.00	0.00
ATOM	454	C	GLU	29	0.100	-3.604	-6.202	1.00	0.00
ATOM	455	O	GLU	29	0.192	-3.058	-7.284	1.00	0.00
ATOM	456	N	GLN	30	-0.484	-4.764	-6.077	1.00	0.00
ATOM	457	H	GLN	30	-0.558	-5.227	-5.182	1.00	0.00
ATOM	458	CA	GLN	30	-1.056	-5.442	-7.271	1.00	0.00
ATOM	459	HA	GLN	30	-0.323	-5.469	-8.078	1.00	0.00
ATOM	460	CB	GLN	30	-1.436	-6.879	-6.909	1.00	0.00
ATOM	461	HB2	GLN	30	-1.855	-6.903	-5.903	1.00	0.00
ATOM	462	HB3	GLN	30	-2.175	-7.250	-7.619	1.00	0.00
ATOM	463	CG	GLN	30	-0.188	-7.765	-6.962	1.00	0.00
ATOM	464	HG2	GLN	30	0.132	-7.905	-7.995	1.00	0.00
ATOM	465	HG3	GLN	30	0.623	-7.314	-6.390	1.00	0.00
ATOM	466	CD	GLN	30	-0.508	-9.133	-6.360	1.00	0.00
ATOM	467	OE1	GLN	30	-1.605	-9.363	-5.890	1.00	0.00
ATOM	468	NE2	GLN	30	0.411	-10.060	-6.352	1.00	0.00
ATOM	469	HE21	GLN	30	0.207	-10.967	-5.956	1.00	0.00
ATOM	470	HE22	GLN	30	1.323	-9.867	-6.742	1.00	0.00
ATOM	471	C	GLN	30	-2.300	-4.687	-7.746	1.00	0.00

ATOM	472	O	GLN	30	-2.676	-4.764	-8.899	1.00	0.00
ATOM	473	N	HID	31	-2.942	-3.953	-6.877	1.00	0.00
ATOM	474	H	HID	31	-2.641	-3.879	-5.916	1.00	0.00
ATOM	475	CA	HID	31	-4.152	-3.197	-7.298	1.00	0.00
ATOM	476	HA	HID	31	-4.765	-3.805	-7.963	1.00	0.00
ATOM	477	CB	HID	31	-4.982	-2.834	-6.062	1.00	0.00
ATOM	478	HB2	HID	31	-5.655	-3.642	-5.775	1.00	0.00
ATOM	479	HB3	HID	31	-4.357	-2.564	-5.211	1.00	0.00
ATOM	480	CG	HID	31	-5.846	-1.637	-6.359	1.00	0.00
ATOM	481	ND1	HID	31	-6.917	-1.697	-7.237	1.00	0.00
ATOM	482	HD1	HID	31	-7.224	-2.509	-7.754	1.00	0.00
ATOM	483	CE1	HID	31	-7.477	-0.474	-7.278	1.00	0.00
ATOM	484	HE1	HID	31	-8.342	-0.344	-7.929	1.00	0.00
ATOM	485	NE2	HID	31	-6.842	0.389	-6.480	1.00	0.00
ATOM	486	CD2	HID	31	-5.811	-0.343	-5.898	1.00	0.00
ATOM	487	HD2	HID	31	-5.132	0.137	-5.193	1.00	0.00
ATOM	488	C	HID	31	-3.699	-1.929	-8.013	1.00	0.00
ATOM	489	O	HID	31	-4.432	-1.331	-8.776	1.00	0.00
ATOM	490	N	ILE	32	-2.485	-1.521	-7.772	1.00	0.00
ATOM	491	H	ILE	32	-1.875	-2.015	-7.136	1.00	0.00
ATOM	492	CA	ILE	32	-1.966	-0.295	-8.438	1.00	0.00
ATOM	493	HA	ILE	32	-2.802	0.360	-8.682	1.00	0.00

ATOM	494	CB	ILE	32	-0.996	0.439	-7.506	1.00	0.00
ATOM	495	HB	ILE	32	-0.033	0.561	-8.002	1.00	0.00
ATOM	496	CG2	ILE	32	-1.569	1.811	-7.164	1.00	0.00
ATOM	497	HG21	ILE	32	-2.531	1.689	-6.667	1.00	0.00
ATOM	498	HG22	ILE	32	-0.882	2.337	-6.501	1.00	0.00
ATOM	499	HG23	ILE	32	-1.703	2.387	-8.079	1.00	0.00
ATOM	500	CG1	ILE	32	-0.801	-0.364	-6.216	1.00	0.00
ATOM	501	HG12	ILE	32	-1.774	-0.607	-5.790	1.00	0.00
ATOM	502	HG13	ILE	32	-0.263	-1.286	-6.441	1.00	0.00
ATOM	503	CD1	ILE	32	0.003	0.463	-5.211	1.00	0.00
ATOM	504	HD11	ILE	32	-0.534	1.384	-4.985	1.00	0.00
ATOM	505	HD12	ILE	32	0.140	-0.111	-4.295	1.00	0.00
ATOM	506	HD13	ILE	32	0.977	0.705	-5.636	1.00	0.00
ATOM	507	C	ILE	32	-1.238	-0.689	-9.722	1.00	0.00
ATOM	508	O	ILE	32	-1.511	-0.168	-10.785	1.00	0.00
ATOM	509	N	MET	33	-0.319	-1.610	-9.636	1.00	0.00
ATOM	510	H	MET	33	-0.086	-2.050	-8.757	1.00	0.00
ATOM	511	CA	MET	33	0.418	-2.039	-10.857	1.00	0.00
ATOM	512	HA	MET	33	0.930	-1.189	-11.308	1.00	0.00
ATOM	513	CB	MET	33	1.461	-3.093	-10.479	1.00	0.00
ATOM	514	HB2	MET	33	0.957	-3.992	-10.123	1.00	0.00
ATOM	515	HB3	MET	33	2.064	-3.338	-11.353	1.00	0.00

ATOM	516	CG	MET	33	2.365	-2.544	-9.374	1.00	0.00
ATOM	517	HG2	MET	33	2.765	-1.575	-9.672	1.00	0.00
ATOM	518	HG3	MET	33	1.794	-2.433	-8.452	1.00	0.00
ATOM	519	SD	MET	33	3.736	-3.691	-9.090	1.00	0.00
ATOM	520	CE	MET	33	4.867	-2.999	-10.321	1.00	0.00
ATOM	521	HE1	MET	33	5.076	-1.957	-10.079	1.00	0.00
ATOM	522	HE2	MET	33	5.799	-3.566	-10.318	1.00	0.00
ATOM	523	HE3	MET	33	4.410	-3.058	-11.309	1.00	0.00
ATOM	524	C	MET	33	-0.572	-2.634	-11.858	1.00	0.00
ATOM	525	O	MET	33	-0.478	-2.410	-13.047	1.00	0.00
ATOM	526	N	GLN	34	-1.522	-3.390	-11.383	1.00	0.00
ATOM	527	H	GLN	34	-1.605	-3.578	-10.394	1.00	0.00
ATOM	528	CA	GLN	34	-2.520	-4.003	-12.305	1.00	0.00
ATOM	529	HA	GLN	34	-2.016	-4.601	-13.065	1.00	0.00
ATOM	530	CB	GLN	34	-3.457	-4.913	-11.508	1.00	0.00
ATOM	531	HB2	GLN	34	-3.809	-4.386	-10.622	1.00	0.00
ATOM	532	HB3	GLN	34	-4.309	-5.190	-12.128	1.00	0.00
ATOM	533	CG	GLN	34	-2.704	-6.175	-11.084	1.00	0.00
ATOM	534	HG2	GLN	34	-2.423	-6.761	-11.959	1.00	0.00
ATOM	535	HG3	GLN	34	-1.808	-5.910	-10.522	1.00	0.00
ATOM	536	CD	GLN	34	-3.605	-7.031	-10.192	1.00	0.00
ATOM	537	OE1	GLN	34	-4.660	-6.595	-9.777	1.00	0.00

ATOM	538	NE2	GLN	34	-3.231	-8.241	-9.878	1.00	0.00
ATOM	539	HE21	GLN	34	-3.821	-8.812	-9.290	1.00	0.00
ATOM	540	HE22	GLN	34	-2.353	-8.602	-10.225	1.00	0.00
ATOM	541	C	GLN	34	-3.337	-2.904	-12.987	1.00	0.00
ATOM	542	O	GLN	34	-3.572	-2.945	-14.178	1.00	0.00
ATOM	543	N	ARG	35	-3.780	-1.926	-12.245	1.00	0.00
ATOM	544	H	ARG	35	-3.592	-1.884	-11.254	1.00	0.00
ATOM	545	CA	ARG	35	-4.589	-0.834	-12.859	1.00	0.00
ATOM	546	HA	ARG	35	-5.451	-1.249	-13.380	1.00	0.00
ATOM	547	CB	ARG	35	-5.087	0.107	-11.762	1.00	0.00
ATOM	548	HB2	ARG	35	-4.306	0.239	-11.013	1.00	0.00
ATOM	549	HB3	ARG	35	-5.338	1.073	-12.198	1.00	0.00
ATOM	550	CG	ARG	35	-6.331	-0.494	-11.101	1.00	0.00
ATOM	551	HG2	ARG	35	-7.035	-0.812	-11.871	1.00	0.00
ATOM	552	HG3	ARG	35	-6.042	-1.354	-10.497	1.00	0.00
ATOM	553	CD	ARG	35	-6.992	0.558	-10.208	1.00	0.00
ATOM	554	HD2	ARG	35	-7.402	1.364	-10.815	1.00	0.00
ATOM	555	HD3	ARG	35	-7.789	0.105	-9.619	1.00	0.00
ATOM	556	NE	ARG	35	-5.977	1.129	-9.279	1.00	0.00
ATOM	557	HE	ARG	35	-5.129	0.629	-9.052	1.00	0.00
ATOM	558	CZ	ARG	35	-6.174	2.299	-8.736	1.00	0.00
ATOM	559	NH1	ARG	35	-6.689	3.268	-9.443	1.00	0.00

ATOM	560	HH11	ARG	35	-6.934	3.108	-10.410	1.00	0.00
ATOM	561	HH12	ARG	35	-6.840	4.172	-9.020	1.00	0.00
ATOM	562	NH2	ARG	35	-5.854	2.501	-7.488	1.00	0.00
ATOM	563	HH21	ARG	35	-5.454	1.749	-6.945	1.00	0.00
ATOM	564	HH22	ARG	35	-6.008	3.407	-7.071	1.00	0.00
ATOM	565	C	ARG	35	-3.731	-0.047	-13.853	1.00	0.00
ATOM	566	O	ARG	35	-4.089	0.115	-15.002	1.00	0.00
ATOM	567	N	ILE	36	-2.606	0.448	-13.419	1.00	0.00
ATOM	568	H	ILE	36	-2.303	0.320	-12.464	1.00	0.00
ATOM	569	CA	ILE	36	-1.732	1.230	-14.339	1.00	0.00
ATOM	570	HA	ILE	36	-2.306	2.036	-14.795	1.00	0.00
ATOM	571	CB	ILE	36	-0.564	1.821	-13.547	1.00	0.00
ATOM	572	HB	ILE	36	0.070	2.405	-14.214	1.00	0.00
ATOM	573	CG2	ILE	36	-1.108	2.725	-12.438	1.00	0.00
ATOM	574	HG21	ILE	36	-1.741	2.141	-11.771	1.00	0.00
ATOM	575	HG22	ILE	36	-0.277	3.147	-11.872	1.00	0.00
ATOM	576	HG23	ILE	36	-1.693	3.531	-12.880	1.00	0.00
ATOM	577	CG1	ILE	36	0.259	0.687	-12.930	1.00	0.00
ATOM	578	HG12	ILE	36	-0.413	-0.071	-12.528	1.00	0.00
ATOM	579	HG13	ILE	36	0.893	0.240	-13.697	1.00	0.00
ATOM	580	CD1	ILE	36	1.135	1.241	-11.804	1.00	0.00
ATOM	581	HD11	ILE	36	0.503	1.687	-11.037	1.00	0.00



ATOM	582	HD12	ILE	36	1.720	0.432	-11.366	1.00	0.00
ATOM	583	HD13	ILE	36	1.808	1.998	-12.206	1.00	0.00
ATOM	584	C	ILE	36	-1.191	0.320	-15.444	1.00	0.00
ATOM	585	O	ILE	36	-0.676	0.782	-16.442	1.00	0.00
ATOM	586	N	MET	37	-1.303	-0.970	-15.278	1.00	0.00
ATOM	587	H	MET	37	-1.727	-1.368	-14.452	1.00	0.00
ATOM	588	CA	MET	37	-0.791	-1.899	-16.327	1.00	0.00
ATOM	589	HA	MET	37	-0.140	-1.365	-17.019	1.00	0.00
ATOM	590	CB	MET	37	0.012	-3.023	-15.670	1.00	0.00
ATOM	591	HB2	MET	37	-0.555	-3.437	-14.836	1.00	0.00
ATOM	592	HB3	MET	37	0.207	-3.808	-16.402	1.00	0.00
ATOM	593	CG	MET	37	1.341	-2.465	-15.155	1.00	0.00
ATOM	594	HG2	MET	37	1.757	-1.771	-15.885	1.00	0.00
ATOM	595	HG3	MET	37	1.182	-1.946	-14.210	1.00	0.00
ATOM	596	SD	MET	37	2.506	-3.825	-14.896	1.00	0.00
ATOM	597	CE	MET	37	1.511	-4.754	-13.704	1.00	0.00
ATOM	598	HE1	MET	37	0.564	-5.037	-14.163	1.00	0.00
ATOM	599	HE2	MET	37	2.050	-5.653	-13.402	1.00	0.00
ATOM	600	HE3	MET	37	1.320	-4.134	-12.828	1.00	0.00
ATOM	601	C	MET	37	-1.969	-2.495	-17.099	1.00	0.00
ATOM	602	O	MET	37	-1.818	-2.975	-18.206	1.00	0.00
ATOM	603	N	GLY	38	-3.142	-2.470	-16.528	1.00	0.00

ATOM	604	H	GLY	38	-3.276	-2.074	-15.609	1.00	0.00
ATOM	605	CA	GLY	38	-4.326	-3.036	-17.233	1.00	0.00
ATOM	606	HA2	GLY	38	-4.117	-4.057	-17.555	1.00	0.00
ATOM	607	HA3	GLY	38	-5.191	-3.035	-16.571	1.00	0.00
ATOM	608	C	GLY	38	-4.638	-2.180	-18.463	1.00	0.00
ATOM	609	O	GLY	38	-5.217	-2.646	-19.425	1.00	0.00
ATOM	610	N	GLU	39	-4.259	-0.932	-18.438	1.00	0.00
ATOM	611	H	GLU	39	-3.779	-0.539	-17.641	1.00	0.00
ATOM	612	CA	GLU	39	-4.533	-0.047	-19.605	1.00	0.00
ATOM	613	HA	GLU	39	-5.601	-0.029	-19.823	1.00	0.00
ATOM	614	CB	GLU	39	-4.074	1.377	-19.285	1.00	0.00
ATOM	615	HB2	GLU	39	-4.535	1.707	-18.354	1.00	0.00
ATOM	616	HB3	GLU	39	-2.989	1.394	-19.179	1.00	0.00
ATOM	617	CG	GLU	39	-4.490	2.314	-20.420	1.00	0.00
ATOM	618	HG2	GLU	39	-4.113	1.927	-21.367	1.00	0.00
ATOM	619	HG3	GLU	39	-5.577	2.376	-20.460	1.00	0.00
ATOM	620	CD	GLU	39	-3.909	3.707	-20.171	1.00	0.00
ATOM	621	OE1	GLU	39	-3.198	3.864	-19.191	1.00	0.00
ATOM	622	OE2	GLU	39	-4.184	4.593	-20.963	1.00	0.00
ATOM	623	C	GLU	39	-3.775	-0.566	-20.828	1.00	0.00
ATOM	624	O	GLU	39	-4.159	-0.327	-21.956	1.00	0.00
ATOM	625	N	GLN	40	-2.699	-1.273	-20.615	1.00	0.00

ATOM	626	H	GLN	40	-2.371	-1.475	-19.681	1.00	0.00
ATOM	627	CA	GLN	40	-1.919	-1.806	-21.767	1.00	0.00
ATOM	628	HA	GLN	40	-1.645	-0.998	-22.445	1.00	0.00
ATOM	629	CB	GLN	40	-0.639	-2.469	-21.254	1.00	0.00
ATOM	630	HB2	GLN	40	-0.888	-3.179	-20.465	1.00	0.00
ATOM	631	HB3	GLN	40	-0.148	-2.996	-22.073	1.00	0.00
ATOM	632	CG	GLN	40	0.303	-1.399	-20.699	1.00	0.00
ATOM	633	HG2	GLN	40	0.560	-0.680	-21.477	1.00	0.00
ATOM	634	HG3	GLN	40	-0.167	-0.879	-19.865	1.00	0.00
ATOM	635	CD	GLN	40	1.589	-2.060	-20.200	1.00	0.00
ATOM	636	OE1	GLN	40	1.651	-3.266	-20.061	1.00	0.00
ATOM	637	NE2	GLN	40	2.627	-1.318	-19.924	1.00	0.00
ATOM	638	HE21	GLN	40	3.479	-1.750	-19.594	1.00	0.00
ATOM	639	HE22	GLN	40	2.574	-0.317	-20.042	1.00	0.00
ATOM	640	C	GLN	40	-2.763	-2.837	-22.518	1.00	0.00
ATOM	641	O	GLN	40	-2.660	-2.982	-23.719	1.00	0.00
ATOM	642	N	GLU	41	-3.598	-3.555	-21.817	1.00	0.00
ATOM	643	H	GLU	41	-3.687	-3.443	-20.817	1.00	0.00
ATOM	644	CA	GLU	41	-4.450	-4.575	-22.492	1.00	0.00
ATOM	645	HA	GLU	41	-3.828	-5.346	-22.948	1.00	0.00
ATOM	646	CB	GLU	41	-5.369	-5.234	-21.461	1.00	0.00
ATOM	647	HB2	GLU	41	-5.980	-4.472	-20.979	1.00	0.00

ATOM	648	HB3	GLU	41	-6.016	-5.956	-21.960	1.00	0.00
ATOM	649	CG	GLU	41	-4.523	-5.951	-20.407	1.00	0.00
ATOM	650	HG2	GLU	41	-3.889	-6.694	-20.892	1.00	0.00
ATOM	651	HG3	GLU	41	-3.898	-5.225	-19.887	1.00	0.00
ATOM	652	CD	GLU	41	-5.443	-6.645	-19.401	1.00	0.00
ATOM	653	OE1	GLU	41	-6.638	-6.412	-19.463	1.00	0.00
ATOM	654	OE2	GLU	41	-4.936	-7.398	-18.587	1.00	0.00
ATOM	655	C	GLU	41	-5.295	-3.898	-23.573	1.00	0.00
ATOM	656	O	GLU	41	-5.798	-2.809	-23.387	1.00	0.00
ATOM	657	N	GLN	42	-5.455	-4.536	-24.700	1.00	0.00
ATOM	658	H	GLN	42	-5.038	-5.442	-24.863	1.00	0.00
ATOM	659	CA	GLN	42	-6.268	-3.927	-25.789	1.00	0.00
ATOM	660	HA	GLN	42	-5.868	-2.950	-26.059	1.00	0.00
ATOM	661	CB	GLN	42	-6.225	-4.831	-27.023	1.00	0.00
ATOM	662	HB2	GLN	42	-6.570	-5.830	-26.755	1.00	0.00
ATOM	663	HB3	GLN	42	-6.871	-4.420	-27.798	1.00	0.00
ATOM	664	CG	GLN	42	-4.790	-4.911	-27.546	1.00	0.00
ATOM	665	HG2	GLN	42	-4.136	-5.353	-26.794	1.00	0.00
ATOM	666	HG3	GLN	42	-4.752	-5.510	-28.456	1.00	0.00
ATOM	667	CD	GLN	42	-4.285	-3.502	-27.866	1.00	0.00
ATOM	668	OE1	GLN	42	-4.936	-2.755	-28.568	1.00	0.00
ATOM	669	NE2	GLN	42	-3.143	-3.105	-27.376	1.00	0.00

ATOM	670	HE21	GLN	42	-2.803	-2.177	-27.583	1.00	0.00
ATOM	671	HE22	GLN	42	-2.603	-3.728	-26.792	1.00	0.00
ATOM	672	C	GLN	42	-7.715	-3.770	-25.319	1.00	0.00
ATOM	673	O	GLN	42	-8.386	-2.814	-25.651	1.00	0.00
ATOM	674	N	TYR	43	-8.202	-4.703	-24.546	1.00	0.00
ATOM	675	H	TYR	43	-7.650	-5.501	-24.264	1.00	0.00
ATOM	676	CA	TYR	43	-9.606	-4.606	-24.055	1.00	0.00
ATOM	677	HA	TYR	43	-10.090	-3.721	-24.468	1.00	0.00
ATOM	678	CB	TYR	43	-10.390	-5.844	-24.498	1.00	0.00
ATOM	679	HB2	TYR	43	-9.928	-6.736	-24.074	1.00	0.00
ATOM	680	HB3	TYR	43	-11.420	-5.769	-24.150	1.00	0.00
ATOM	681	CG	TYR	43	-10.374	-5.937	-26.005	1.00	0.00
ATOM	682	CD1	TYR	43	-11.249	-5.150	-26.764	1.00	0.00
ATOM	683	HD1	TYR	43	-11.940	-4.470	-26.268	1.00	0.00
ATOM	684	CE1	TYR	43	-11.235	-5.238	-28.161	1.00	0.00
ATOM	685	HE1	TYR	43	-11.916	-4.626	-28.752	1.00	0.00
ATOM	686	CZ	TYR	43	-10.348	-6.113	-28.799	1.00	0.00
ATOM	687	OH	TYR	43	-10.335	-6.199	-30.177	1.00	0.00
ATOM	688	HH	TYR	43	-10.973	-5.617	-30.595	1.00	0.00
ATOM	689	CE2	TYR	43	-9.473	-6.899	-28.040	1.00	0.00
ATOM	690	HE2	TYR	43	-8.781	-7.580	-28.536	1.00	0.00
ATOM	691	CD2	TYR	43	-9.487	-6.811	-26.644	1.00	0.00

ATOM	692	HD2 TYR	43	-8.806	-7.424	-26.053	1.00	0.00
ATOM	693	C TYR	43	-9.606	-4.525	-22.527	1.00	0.00
ATOM	694	O TYR	43	-8.659	-4.917	-21.875	1.00	0.00
ATOM	695	N ASP	44	-10.662	-4.019	-21.951	1.00	0.00
ATOM	696	H ASP	44	-11.453	-3.692	-22.486	1.00	0.00
ATOM	697	CA ASP	44	-10.721	-3.913	-20.466	1.00	0.00
ATOM	698	HA ASP	44	-10.727	-4.906	-20.017	1.00	0.00
ATOM	699	CB ASP	44	-9.493	-3.154	-19.957	1.00	0.00
ATOM	700	HB2 ASP	44	-9.618	-2.930	-18.898	1.00	0.00
ATOM	701	HB3 ASP	44	-8.602	-3.767	-20.095	1.00	0.00
ATOM	702	CG ASP	44	-9.340	-1.848	-20.740	1.00	0.00
ATOM	703	OD1 ASP	44	-10.056	-1.675	-21.712	1.00	0.00
ATOM	704	OD2 ASP	44	-8.507	-1.045	-20.353	1.00	0.00
ATOM	705	C ASP	44	-11.990	-3.161	-20.059	1.00	0.00
ATOM	706	O ASP	44	-12.697	-3.558	-19.155	1.00	0.00
ATOM	707	N SER	45	-12.285	-2.075	-20.721	1.00	0.00
ATOM	708	H SER	45	-11.702	-1.737	-21.473	1.00	0.00
ATOM	709	CA SER	45	-13.509	-1.300	-20.373	1.00	0.00
ATOM	710	HA SER	45	-13.387	-0.814	-19.405	1.00	0.00
ATOM	711	CB SER	45	-13.748	-0.224	-21.434	1.00	0.00
ATOM	712	HB2 SER	45	-14.554	0.434	-21.110	1.00	0.00
ATOM	713	HB3 SER	45	-12.837	0.358	-21.572	1.00	0.00

ATOM	714	OG	SER	45	-14.106	-0.841	-22.662	1.00	0.00
ATOM	715	HG	SER	45	-14.256	-0.166	-23.328	1.00	0.00
ATOM	716	C	SER	45	-14.712	-2.242	-20.321	1.00	0.00
ATOM	717	O	SER	45	-15.610	-2.075	-19.520	1.00	0.00
ATOM	718	N	TYR	46	-14.739	-3.232	-21.172	1.00	0.00
ATOM	719	H	TYR	46	-13.995	-3.378	-21.840	1.00	0.00
ATOM	720	CA	TYR	46	-15.885	-4.183	-21.173	1.00	0.00
ATOM	721	HA	TYR	46	-16.818	-3.651	-21.359	1.00	0.00
ATOM	722	CB	TYR	46	-15.685	-5.221	-22.279	1.00	0.00
ATOM	723	HB2	TYR	46	-14.719	-5.711	-22.151	1.00	0.00
ATOM	724	HB3	TYR	46	-16.479	-5.966	-22.226	1.00	0.00
ATOM	725	CG	TYR	46	-15.727	-4.536	-23.624	1.00	0.00
ATOM	726	CD1	TYR	46	-16.919	-3.962	-24.080	1.00	0.00
ATOM	727	HD1	TYR	46	-17.817	-4.011	-23.464	1.00	0.00
ATOM	728	CE1	TYR	46	-16.959	-3.326	-25.327	1.00	0.00
ATOM	729	HE1	TYR	46	-17.887	-2.880	-25.682	1.00	0.00
ATOM	730	CZ	TYR	46	-15.805	-3.263	-26.117	1.00	0.00
ATOM	731	OH	TYR	46	-15.844	-2.637	-27.346	1.00	0.00
ATOM	732	HH	TYR	46	-16.710	-2.282	-27.559	1.00	0.00
ATOM	733	CE2	TYR	46	-14.612	-3.836	-25.661	1.00	0.00
ATOM	734	HE2	TYR	46	-13.714	-3.787	-26.277	1.00	0.00
ATOM	735	CD2	TYR	46	-14.572	-4.473	-24.414	1.00	0.00

ATOM	736	HD2	TYR	46	-13.643	-4.919	-24.059	1.00	0.00
ATOM	737	C	TYR	46	-15.962	-4.891	-19.818	1.00	0.00
ATOM	738	O	TYR	46	-17.027	-5.070	-19.261	1.00	0.00
ATOM	739	N	ASP	47	-14.842	-5.296	-19.284	1.00	0.00
ATOM	740	H	ASP	47	-13.952	-5.151	-19.740	1.00	0.00
ATOM	741	CA	ASP	47	-14.855	-5.992	-17.967	1.00	0.00
ATOM	742	HA	ASP	47	-15.866	-6.316	-17.720	1.00	0.00
ATOM	743	CB	ASP	47	-13.950	-7.224	-18.032	1.00	0.00
ATOM	744	HB2	ASP	47	-12.956	-6.932	-18.372	1.00	0.00
ATOM	745	HB3	ASP	47	-13.877	-7.673	-17.041	1.00	0.00
ATOM	746	CG	ASP	47	-14.544	-8.241	-19.009	1.00	0.00
ATOM	747	OD1	ASP	47	-15.704	-8.092	-19.356	1.00	0.00
ATOM	748	OD2	ASP	47	-13.828	-9.150	-19.396	1.00	0.00
ATOM	749	C	ASP	47	-14.343	-5.042	-16.882	1.00	0.00
ATOM	750	O	ASP	47	-13.220	-4.578	-16.929	1.00	0.00
ATOM	751	N	ILE	48	-15.156	-4.747	-15.905	1.00	0.00
ATOM	752	H	ILE	48	-16.090	-5.129	-15.858	1.00	0.00
ATOM	753	CA	ILE	48	-14.714	-3.826	-14.820	1.00	0.00
ATOM	754	HA	ILE	48	-14.466	-2.854	-15.246	1.00	0.00
ATOM	755	CB	ILE	48	-15.842	-3.663	-13.799	1.00	0.00
ATOM	756	HB	ILE	48	-16.078	-4.633	-13.360	1.00	0.00
ATOM	757	CG2	ILE	48	-15.397	-2.700	-12.697	1.00	0.00



ATOM	758	HG21	ILE	48	-15.160	-1.731	-13.135	1.00	0.00
ATOM	759	HG22	ILE	48	-16.200	-2.584	-11.969	1.00	0.00
ATOM	760	HG23	ILE	48	-14.512	-3.100	-12.200	1.00	0.00
ATOM	761	CG1	ILE	48	-17.084	-3.102	-14.495	1.00	0.00
ATOM	762	HG12	ILE	48	-16.884	-2.085	-14.832	1.00	0.00
ATOM	763	HG13	ILE	48	-17.333	-3.726	-15.354	1.00	0.00
ATOM	764	CD1	ILE	48	-18.258	-3.093	-13.514	1.00	0.00
ATOM	765	HD11	ILE	48	-18.010	-2.469	-12.655	1.00	0.00
ATOM	766	HD12	ILE	48	-19.143	-2.694	-14.009	1.00	0.00
ATOM	767	HD13	ILE	48	-18.458	-4.111	-13.177	1.00	0.00
ATOM	768	C	ILE	48	-13.481	-4.410	-14.129	1.00	0.00
ATOM	769	O	ILE	48	-12.526	-3.714	-13.849	1.00	0.00
ATOM	770	N	ARG	49	-13.494	-5.686	-13.850	1.00	0.00
ATOM	771	H	ARG	49	-14.284	-6.272	-14.080	1.00	0.00
ATOM	772	CA	ARG	49	-12.323	-6.313	-13.177	1.00	0.00
ATOM	773	HA	ARG	49	-11.463	-5.644	-13.212	1.00	0.00
ATOM	774	CB	ARG	49	-12.665	-6.593	-11.712	1.00	0.00
ATOM	775	HB2	ARG	49	-13.550	-7.228	-11.659	1.00	0.00
ATOM	776	HB3	ARG	49	-11.827	-7.099	-11.233	1.00	0.00
ATOM	777	CG	ARG	49	-12.942	-5.271	-10.992	1.00	0.00
ATOM	778	HG2	ARG	49	-13.700	-4.711	-11.539	1.00	0.00
ATOM	779	HG3	ARG	49	-13.298	-5.475	-9.982	1.00	0.00

ATOM	780	CD	ARG	49	-11.653	-4.449	-10.922	1.00	0.00
ATOM	781	HD2	ARG	49	-10.856	-5.035	-10.462	1.00	0.00
ATOM	782	HD3	ARG	49	-11.346	-4.142	-11.922	1.00	0.00
ATOM	783	NE	ARG	49	-11.886	-3.230	-10.098	1.00	0.00
ATOM	784	HE	ARG	49	-12.797	-3.016	-9.719	1.00	0.00
ATOM	785	CZ	ARG	49	-10.901	-2.411	-9.851	1.00	0.00
ATOM	786	NH1	ARG	49	-9.671	-2.782	-10.079	1.00	0.00
ATOM	787	HH11	ARG	49	-9.485	-3.704	-10.447	1.00	0.00
ATOM	788	HH12	ARG	49	-8.911	-2.146	-9.887	1.00	0.00
ATOM	789	NH2	ARG	49	-11.146	-1.220	-9.376	1.00	0.00
ATOM	790	HH21	ARG	49	-12.099	-0.936	-9.201	1.00	0.00
ATOM	791	HH22	ARG	49	-10.381	-0.589	-9.186	1.00	0.00
ATOM	792	C	ARG	49	-11.975	-7.628	-13.879	1.00	0.00
ATOM	793	O	ARG	49	-12.842	-8.346	-14.336	1.00	0.00
ATOM	794	N	SER	50	-10.713	-7.947	-13.970	1.00	0.00
ATOM	795	H	SER	50	-9.987	-7.355	-13.594	1.00	0.00
ATOM	796	CA	SER	50	-10.312	-9.214	-14.643	1.00	0.00
ATOM	797	HA	SER	50	-10.563	-9.176	-15.703	1.00	0.00
ATOM	798	CB	SER	50	-8.800	-9.407	-14.505	1.00	0.00
ATOM	799	HB2	SER	50	-8.543	-9.527	-13.453	1.00	0.00
ATOM	800	HB3	SER	50	-8.494	-10.297	-15.057	1.00	0.00
ATOM	801	OG	SER	50	-8.129	-8.272	-15.029	1.00	0.00

ATOM	802	HG	SER	50	-7.180	-8.393	-14.943	1.00	0.00
ATOM	803	C	SER	50	-11.039	-10.392	-13.990	1.00	0.00
ATOM	804	O	SER	50	-11.481	-11.307	-14.657	1.00	0.00
ATOM	805	N	THR	51	-11.166	-10.377	-12.692	1.00	0.00
ATOM	806	H	THR	51	-10.801	-9.621	-12.132	1.00	0.00
ATOM	807	CA	THR	51	-11.864	-11.496	-11.999	1.00	0.00
ATOM	808	HA	THR	51	-12.562	-11.988	-12.676	1.00	0.00
ATOM	809	CB	THR	51	-10.835	-12.525	-11.527	1.00	0.00
ATOM	810	HB	THR	51	-10.172	-12.781	-12.354	1.00	0.00
ATOM	811	CG2	THR	51	-10.014	-11.940	-10.378	1.00	0.00
ATOM	812	HG21	THR	51	-10.676	-11.685	-9.551	1.00	0.00
ATOM	813	HG22	THR	51	-9.281	-12.675	-10.043	1.00	0.00
ATOM	814	HG23	THR	51	-9.498	-11.043	-10.720	1.00	0.00
ATOM	815	OG1	THR	51	-11.506	-13.697	-11.084	1.00	0.00
ATOM	816	HG1	THR	51	-10.860	-14.343	-10.788	1.00	0.00
ATOM	817	C	THR	51	-12.630	-10.951	-10.792	1.00	0.00
ATOM	818	O	THR	51	-12.304	-9.910	-10.257	1.00	0.00
ATOM	819	N	ARG	52	-13.646	-11.646	-10.359	1.00	0.00
ATOM	820	H	ARG	52	-13.922	-12.513	-10.798	1.00	0.00
ATOM	821	CA	ARG	52	-14.432	-11.166	-9.187	1.00	0.00
ATOM	822	HA	ARG	52	-14.846	-10.179	-9.389	1.00	0.00
ATOM	823	CB	ARG	52	-15.585	-12.134	-8.915	1.00	0.00

ATOM	824	HB2 ARG	52	-15.191	-13.143	-8.786	1.00	0.00
ATOM	825	HB3 ARG	52	-16.109	-11.831	-8.009	1.00	0.00
ATOM	826	CG ARG	52	-16.556	-12.114	-10.097	1.00	0.00
ATOM	827	HG2 ARG	52	-16.872	-11.089	-10.291	1.00	0.00
ATOM	828	HG3 ARG	52	-16.061	-12.516	-10.982	1.00	0.00
ATOM	829	CD ARG	52	-17.781	-12.971	-9.765	1.00	0.00
ATOM	830	HD2 ARG	52	-18.313	-12.555	-8.910	1.00	0.00
ATOM	831	HD3 ARG	52	-18.452	-13.019	-10.622	1.00	0.00
ATOM	832	NE ARG	52	-17.341	-14.353	-9.426	1.00	0.00
ATOM	833	HE ARG	52	-16.424	-14.538	-9.045	1.00	0.00
ATOM	834	CZ ARG	52	-18.149	-15.360	-9.620	1.00	0.00
ATOM	835	NH1 ARG	52	-18.553	-16.077	-8.607	1.00	0.00
ATOM	836	HH11 ARG	52	-18.238	-15.851	-7.674	1.00	0.00
ATOM	837	HH12 ARG	52	-19.178	-16.856	-8.761	1.00	0.00
ATOM	838	NH2 ARG	52	-18.552	-15.649	-10.826	1.00	0.00
ATOM	839	HH21 ARG	52	-18.237	-15.092	-11.607	1.00	0.00
ATOM	840	HH22 ARG	52	-19.177	-16.429	-10.973	1.00	0.00
ATOM	841	C ARG	52	-13.525	-11.097	-7.957	1.00	0.00
ATOM	842	O ARG	52	-13.688	-10.249	-7.102	1.00	0.00
ATOM	843	N SER	53	-12.571	-11.981	-7.860	1.00	0.00
ATOM	844	H SER	53	-12.431	-12.689	-8.567	1.00	0.00
ATOM	845	CA SER	53	-11.655	-11.966	-6.685	1.00	0.00

ATOM	846	HA	SER	53	-12.218	-12.119	-5.765	1.00	0.00
ATOM	847	CB	SER	53	-10.629	-13.093	-6.822	1.00	0.00
ATOM	848	HB2	SER	53	-10.069	-13.192	-5.892	1.00	0.00
ATOM	849	HB3	SER	53	-11.143	-14.030	-7.037	1.00	0.00
ATOM	850	OG	SER	53	-9.734	-12.791	-7.883	1.00	0.00
ATOM	851	HG	SER	53	-9.090	-13.498	-7.969	1.00	0.00
ATOM	852	C	SER	53	-10.931	-10.620	-6.620	1.00	0.00
ATOM	853	O	SER	53	-10.432	-10.222	-5.585	1.00	0.00
ATOM	854	N	SER	54	-10.867	-9.915	-7.716	1.00	0.00
ATOM	855	H	SER	54	-11.279	-10.240	-8.579	1.00	0.00
ATOM	856	CA	SER	54	-10.174	-8.596	-7.716	1.00	0.00
ATOM	857	HA	SER	54	-9.107	-8.730	-7.536	1.00	0.00
ATOM	858	CB	SER	54	-10.360	-7.921	-9.076	1.00	0.00
ATOM	859	HB2	SER	54	-10.041	-8.601	-9.866	1.00	0.00
ATOM	860	HB3	SER	54	-11.411	-7.669	-9.216	1.00	0.00
ATOM	861	OG	SER	54	-9.579	-6.737	-9.128	1.00	0.00
ATOM	862	HG	SER	54	-9.696	-6.314	-9.982	1.00	0.00
ATOM	863	C	SER	54	-10.768	-7.708	-6.621	1.00	0.00
ATOM	864	O	SER	54	-10.085	-6.897	-6.028	1.00	0.00
ATOM	865	N	ASP	55	-12.035	-7.853	-6.349	1.00	0.00
ATOM	866	H	ASP	55	-12.609	-8.524	-6.839	1.00	0.00
ATOM	867	CA	ASP	55	-12.671	-7.016	-5.292	1.00	0.00

ATOM	868	HA	ASP	55	-12.569	-5.959	-5.535	1.00	0.00
ATOM	869	CB	ASP	55	-14.160	-7.356	-5.200	1.00	0.00
ATOM	870	HB2	ASP	55	-14.280	-8.433	-5.081	1.00	0.00
ATOM	871	HB3	ASP	55	-14.597	-6.846	-4.342	1.00	0.00
ATOM	872	CG	ASP	55	-14.868	-6.902	-6.478	1.00	0.00
ATOM	873	OD1	ASP	55	-14.255	-6.179	-7.246	1.00	0.00
ATOM	874	OD2	ASP	55	-16.011	-7.285	-6.667	1.00	0.00
ATOM	875	C	ASP	55	-12.000	-7.295	-3.946	1.00	0.00
ATOM	876	O	ASP	55	-11.998	-6.465	-3.059	1.00	0.00
ATOM	877	N	GLN	56	-11.429	-8.458	-3.787	1.00	0.00
ATOM	878	H	GLN	56	-11.426	-9.153	-4.520	1.00	0.00
ATOM	879	CA	GLN	56	-10.758	-8.788	-2.498	1.00	0.00
ATOM	880	HA	GLN	56	-11.460	-8.692	-1.670	1.00	0.00
ATOM	881	CB	GLN	56	-10.250	-10.230	-2.543	1.00	0.00
ATOM	882	HB2	GLN	56	-9.532	-10.338	-3.357	1.00	0.00
ATOM	883	HB3	GLN	56	-9.765	-10.475	-1.598	1.00	0.00
ATOM	884	CG	GLN	56	-11.427	-11.180	-2.773	1.00	0.00
ATOM	885	HG2	GLN	56	-12.267	-10.904	-2.136	1.00	0.00
ATOM	886	HG3	GLN	56	-11.738	-11.150	-3.817	1.00	0.00
ATOM	887	CD	GLN	56	-11.003	-12.610	-2.431	1.00	0.00
ATOM	888	OE1	GLN	56	-11.786	-13.381	-1.914	1.00	0.00
ATOM	889	NE2	GLN	56	-9.787	-12.999	-2.701	1.00	0.00

ATOM	890	HE21	GLN	56	-9.500	-13.942	-2.478	1.00	0.00
ATOM	891	HE22	GLN	56	-9.138	-12.356	-3.132	1.00	0.00
ATOM	892	C	GLN	56	-9.578	-7.840	-2.277	1.00	0.00
ATOM	893	O	GLN	56	-9.275	-7.460	-1.164	1.00	0.00
ATOM	894	N	GLN	57	-8.910	-7.455	-3.330	1.00	0.00
ATOM	895	H	GLN	57	-9.156	-7.768	-4.258	1.00	0.00
ATOM	896	CA	GLN	57	-7.749	-6.533	-3.180	1.00	0.00
ATOM	897	HA	GLN	57	-6.903	-7.059	-2.736	1.00	0.00
ATOM	898	CB	GLN	57	-7.332	-6.010	-4.556	1.00	0.00
ATOM	899	HB2	GLN	57	-8.178	-5.513	-5.029	1.00	0.00
ATOM	900	HB3	GLN	57	-6.511	-5.302	-4.444	1.00	0.00
ATOM	901	CG	GLN	57	-6.878	-7.182	-5.428	1.00	0.00
ATOM	902	HG2	GLN	57	-5.990	-7.649	-5.002	1.00	0.00
ATOM	903	HG3	GLN	57	-7.673	-7.923	-5.510	1.00	0.00
ATOM	904	CD	GLN	57	-6.538	-6.673	-6.830	1.00	0.00
ATOM	905	OE1	GLN	57	-6.932	-5.588	-7.208	1.00	0.00
ATOM	906	NE2	GLN	57	-5.816	-7.418	-7.623	1.00	0.00
ATOM	907	HE21	GLN	57	-5.587	-7.090	-8.550	1.00	0.00
ATOM	908	HE22	GLN	57	-5.489	-8.320	-7.306	1.00	0.00
ATOM	909	C	GLN	57	-8.144	-5.357	-2.283	1.00	0.00
ATOM	910	O	GLN	57	-7.415	-4.972	-1.391	1.00	0.00
ATOM	911	N	GLN	58	-9.293	-4.782	-2.513	1.00	0.00

ATOM	912	H	GLN	58	-9.905	-5.097	-3.252	1.00	0.00
ATOM	913	CA	GLN	58	-9.732	-3.633	-1.674	1.00	0.00
ATOM	914	HA	GLN	58	-9.150	-2.744	-1.917	1.00	0.00
ATOM	915	CB	GLN	58	-11.210	-3.339	-1.942	1.00	0.00
ATOM	916	HB2	GLN	58	-11.811	-4.200	-1.648	1.00	0.00
ATOM	917	HB3	GLN	58	-11.518	-2.468	-1.365	1.00	0.00
ATOM	918	CG	GLN	58	-11.413	-3.061	-3.433	1.00	0.00
ATOM	919	HG2	GLN	58	-10.630	-2.401	-3.807	1.00	0.00
ATOM	920	HG3	GLN	58	-11.400	-3.994	-3.997	1.00	0.00
ATOM	921	CD	GLN	58	-12.768	-2.381	-3.643	1.00	0.00
ATOM	922	OE1	GLN	58	-12.910	-1.539	-4.507	1.00	0.00
ATOM	923	NE2	GLN	58	-13.776	-2.714	-2.885	1.00	0.00
ATOM	924	HE21	GLN	58	-14.673	-2.270	-3.018	1.00	0.00
ATOM	925	HE22	GLN	58	-13.655	-3.416	-2.168	1.00	0.00
ATOM	926	C	GLN	58	-9.544	-3.980	-0.196	1.00	0.00
ATOM	927	O	GLN	58	-9.112	-3.163	0.593	1.00	0.00
ATOM	928	N	ARG	59	-9.866	-5.186	0.186	1.00	0.00
ATOM	929	H	ARG	59	-10.226	-5.871	-0.464	1.00	0.00
ATOM	930	CA	ARG	59	-9.708	-5.582	1.613	1.00	0.00
ATOM	931	HA	ARG	59	-10.444	-5.069	2.232	1.00	0.00
ATOM	932	CB	ARG	59	-9.921	-7.091	1.750	1.00	0.00
ATOM	933	HB2	ARG	59	-9.192	-7.620	1.135	1.00	0.00



ATOM	934	HB3	ARG	59	-9.796	-7.384	2.793	1.00	0.00
ATOM	935	CG	ARG	59	-11.334	-7.449	1.286	1.00	0.00
ATOM	936	HG2	ARG	59	-12.063	-6.895	1.877	1.00	0.00
ATOM	937	HG3	ARG	59	-11.448	-7.190	0.233	1.00	0.00
ATOM	938	CD	ARG	59	-11.565	-8.951	1.469	1.00	0.00
ATOM	939	HD2	ARG	59	-10.776	-9.518	0.975	1.00	0.00
ATOM	940	HD3	ARG	59	-11.584	-9.205	2.529	1.00	0.00
ATOM	941	NE	ARG	59	-12.874	-9.328	0.864	1.00	0.00
ATOM	942	HE	ARG	59	-12.967	-9.506	-0.126	1.00	0.00
ATOM	943	CZ	ARG	59	-13.934	-9.436	1.619	1.00	0.00
ATOM	944	NH1	ARG	59	-14.233	-10.583	2.164	1.00	0.00
ATOM	945	HH11	ARG	59	-13.642	-11.386	2.000	1.00	0.00
ATOM	946	HH12	ARG	59	-15.053	-10.663	2.747	1.00	0.00
ATOM	947	NH2	ARG	59	-14.694	-8.395	1.828	1.00	0.00
ATOM	948	HH21	ARG	59	-14.459	-7.509	1.404	1.00	0.00
ATOM	949	HH22	ARG	59	-15.513	-8.481	2.412	1.00	0.00
ATOM	950	C	ARG	59	-8.303	-5.218	2.092	1.00	0.00
ATOM	951	O	ARG	59	-8.089	-4.925	3.251	1.00	0.00
ATOM	952	N	CYX	60	-7.343	-5.227	1.210	1.00	0.00
ATOM	953	H	CYX	60	-7.510	-5.467	0.243	1.00	0.00
ATOM	954	CA	CYX	60	-5.955	-4.875	1.620	1.00	0.00
ATOM	955	HA	CYX	60	-5.505	-5.695	2.181	1.00	0.00

ATOM	956	CB	CYX	60	-5.108	-4.614	0.371	1.00	0.00
ATOM	957	HB2	CYX	60	-4.857	-5.563	-0.104	1.00	0.00
ATOM	958	HB3	CYX	60	-5.671	-3.996	-0.328	1.00	0.00
ATOM	959	SG	CYX	60	-3.550	-3.822	0.843	1.00	0.00
ATOM	960	C	CYX	60	-5.997	-3.615	2.487	1.00	0.00
ATOM	961	O	CYX	60	-6.085	-3.684	3.698	1.00	0.00
ATOM	962	N	CYX	61	-5.935	-2.467	1.875	1.00	0.00
ATOM	963	H	CYX	61	-5.858	-2.404	0.870	1.00	0.00
ATOM	964	CA	CYX	61	-5.973	-1.202	2.662	1.00	0.00
ATOM	965	HA	CYX	61	-5.001	-1.015	3.120	1.00	0.00
ATOM	966	CB	CYX	61	-6.313	-0.031	1.739	1.00	0.00
ATOM	967	HB2	CYX	61	-6.391	-0.388	0.712	1.00	0.00
ATOM	968	HB3	CYX	61	-7.262	0.408	2.044	1.00	0.00
ATOM	969	SG	CYX	61	-4.979	1.192	1.802	1.00	0.00
ATOM	970	C	CYX	61	-7.037	-1.319	3.756	1.00	0.00
ATOM	971	O	CYX	61	-6.850	-0.868	4.868	1.00	0.00
ATOM	972	N	ASP	62	-8.151	-1.923	3.447	1.00	0.00
ATOM	973	H	ASP	62	-8.312	-2.301	2.524	1.00	0.00
ATOM	974	CA	ASP	62	-9.227	-2.069	4.469	1.00	0.00
ATOM	975	HA	ASP	62	-9.557	-1.089	4.812	1.00	0.00
ATOM	976	CB	ASP	62	-10.421	-2.799	3.853	1.00	0.00
ATOM	977	HB2	ASP	62	-10.090	-3.749	3.433	1.00	0.00

ATOM	978	HB3	ASP	62	-11.170	-2.984	4.622	1.00	0.00
ATOM	979	CG	ASP	62	-11.030	-1.937	2.745	1.00	0.00
ATOM	980	OD1	ASP	62	-10.676	-0.771	2.667	1.00	0.00
ATOM	981	OD2	ASP	62	-11.839	-2.455	1.993	1.00	0.00
ATOM	982	C	ASP	62	-8.696	-2.872	5.656	1.00	0.00
ATOM	983	O	ASP	62	-9.026	-2.608	6.796	1.00	0.00
ATOM	984	N	GLU	63	-7.872	-3.848	5.400	1.00	0.00
ATOM	985	H	GLU	63	-7.593	-4.075	4.456	1.00	0.00
ATOM	986	CA	GLU	63	-7.315	-4.663	6.515	1.00	0.00
ATOM	987	HA	GLU	63	-8.122	-5.095	7.107	1.00	0.00
ATOM	988	CB	GLU	63	-6.466	-5.800	5.943	1.00	0.00
ATOM	989	HB2	GLU	63	-5.862	-5.423	5.117	1.00	0.00
ATOM	990	HB3	GLU	63	-5.811	-6.192	6.721	1.00	0.00
ATOM	991	CG	GLU	63	-7.381	-6.916	5.437	1.00	0.00
ATOM	992	HG2	GLU	63	-8.058	-7.221	6.235	1.00	0.00
ATOM	993	HG3	GLU	63	-7.961	-6.554	4.588	1.00	0.00
ATOM	994	CD	GLU	63	-6.534	-8.113	5.002	1.00	0.00
ATOM	995	OE1	GLU	63	-5.322	-8.031	5.122	1.00	0.00
ATOM	996	OE2	GLU	63	-7.111	-9.092	4.556	1.00	0.00
ATOM	997	C	GLU	63	-6.447	-3.770	7.402	1.00	0.00
ATOM	998	O	GLU	63	-6.589	-3.748	8.608	1.00	0.00
ATOM	999	N	LEU	64	-5.548	-3.032	6.811	1.00	0.00

ATOM	1000	H	LEU	64	-5.427	-3.048	5.808	1.00	0.00
ATOM	1001	CA	LEU	64	-4.668	-2.138	7.614	1.00	0.00
ATOM	1002	HA	LEU	64	-4.193	-2.698	8.420	1.00	0.00
ATOM	1003	CB	LEU	64	-3.576	-1.556	6.713	1.00	0.00
ATOM	1004	HB2	LEU	64	-4.026	-0.890	5.978	1.00	0.00
ATOM	1005	HB3	LEU	64	-2.863	-0.998	7.321	1.00	0.00
ATOM	1006	CG	LEU	64	-2.850	-2.693	5.992	1.00	0.00
ATOM	1007	HG	LEU	64	-3.541	-3.196	5.315	1.00	0.00
ATOM	1008	CD1	LEU	64	-1.678	-2.121	5.191	1.00	0.00
ATOM	1009	HD11	LEU	64	-0.986	-1.619	5.867	1.00	0.00
ATOM	1010	HD12	LEU	64	-1.159	-2.931	4.677	1.00	0.00
ATOM	1011	HD13	LEU	64	-2.052	-1.407	4.458	1.00	0.00
ATOM	1012	CD2	LEU	64	-2.322	-3.696	7.019	1.00	0.00
ATOM	1013	HD21	LEU	64	-3.155	-4.104	7.591	1.00	0.00
ATOM	1014	HD22	LEU	64	-1.805	-4.506	6.504	1.00	0.00
ATOM	1015	HD23	LEU	64	-1.629	-3.195	7.694	1.00	0.00
ATOM	1016	C	LEU	64	-5.495	-0.995	8.211	1.00	0.00
ATOM	1017	O	LEU	64	-4.984	-0.158	8.927	1.00	0.00
ATOM	1018	N	ASN	65	-6.769	-0.951	7.925	1.00	0.00
ATOM	1019	H	ASN	65	-7.205	-1.643	7.333	1.00	0.00
ATOM	1020	CA	ASN	65	-7.619	0.141	8.482	1.00	0.00
ATOM	1021	HA	ASN	65	-6.994	0.953	8.854	1.00	0.00

ATOM	1022	CB	ASN	65	-8.531	0.690	7.383	1.00	0.00
ATOM	1023	HB2	ASN	65	-9.217	-0.086	7.042	1.00	0.00
ATOM	1024	HB3	ASN	65	-9.101	1.541	7.755	1.00	0.00
ATOM	1025	CG	ASN	65	-7.685	1.150	6.197	1.00	0.00
ATOM	1026	OD1	ASN	65	-8.201	1.137	4.998	1.00	0.00
ATOM	1027	ND2	ASN	65	-6.540	1.525	6.360	1.00	0.00
ATOM	1028	HD21	ASN	65	-5.992	1.826	5.566	1.00	0.00
ATOM	1029	HD22	ASN	65	-6.142	1.533	7.288	1.00	0.00
ATOM	1030	C	ASN	65	-8.478	-0.409	9.623	1.00	0.00
ATOM	1031	O	ASN	65	-9.118	0.332	10.341	1.00	0.00
ATOM	1032	N	GLU	66	-8.500	-1.703	9.795	1.00	0.00
ATOM	1033	H	GLU	66	-7.971	-2.329	9.204	1.00	0.00
ATOM	1034	CA	GLU	66	-9.324	-2.292	10.890	1.00	0.00
ATOM	1035	HA	GLU	66	-9.499	-1.554	11.672	1.00	0.00
ATOM	1036	CB	GLU	66	-10.675	-2.735	10.325	1.00	0.00
ATOM	1037	HB2	GLU	66	-10.524	-3.556	9.624	1.00	0.00
ATOM	1038	HB3	GLU	66	-11.318	-3.068	11.140	1.00	0.00
ATOM	1039	CG	GLU	66	-11.336	-1.561	9.601	1.00	0.00
ATOM	1040	HG2	GLU	66	-11.592	-0.787	10.324	1.00	0.00
ATOM	1041	HG3	GLU	66	-10.646	-1.154	8.862	1.00	0.00
ATOM	1042	CD	GLU	66	-12.607	-2.044	8.900	1.00	0.00
ATOM	1043	OE1	GLU	66	-12.795	-3.248	8.822	1.00	0.00

ATOM	1044	OE2	GLU	66	-13.370	-1.204	8.453	1.00	0.00
ATOM	1045	C	GLU	66	-8.604	-3.503	11.491	1.00	0.00
ATOM	1046	O	GLU	66	-8.725	-3.787	12.665	1.00	0.00
ATOM	1047	N	MET	67	-7.860	-4.222	10.696	1.00	0.00
ATOM	1048	H	MET	67	-7.752	-3.997	9.717	1.00	0.00
ATOM	1049	CA	MET	67	-7.142	-5.415	11.229	1.00	0.00
ATOM	1050	HA	MET	67	-7.807	-6.008	11.857	1.00	0.00
ATOM	1051	CB	MET	67	-6.666	-6.285	10.064	1.00	0.00
ATOM	1052	HB2	MET	67	-6.836	-5.761	9.124	1.00	0.00
ATOM	1053	HB3	MET	67	-5.602	-6.493	10.176	1.00	0.00
ATOM	1054	CG	MET	67	-7.445	-7.602	10.061	1.00	0.00
ATOM	1055	HG2	MET	67	-7.865	-7.785	11.050	1.00	0.00
ATOM	1056	HG3	MET	67	-8.250	-7.553	9.328	1.00	0.00
ATOM	1057	SD	MET	67	-6.330	-8.960	9.628	1.00	0.00
ATOM	1058	CE	MET	67	-6.220	-8.606	7.857	1.00	0.00
ATOM	1059	HE1	MET	67	-5.812	-7.606	7.710	1.00	0.00
ATOM	1060	HE2	MET	67	-5.567	-9.338	7.380	1.00	0.00
ATOM	1061	HE3	MET	67	-7.213	-8.662	7.412	1.00	0.00
ATOM	1062	C	MET	67	-5.937	-4.963	12.053	1.00	0.00
ATOM	1063	O	MET	67	-5.955	-4.993	13.268	1.00	0.00
ATOM	1064	N	GLU	68	-4.889	-4.547	11.402	1.00	0.00
ATOM	1065	H	GLU	68	-4.868	-4.523	10.392	1.00	0.00

ATOM	1066	CA	GLU	68	-3.679	-4.095	12.144	1.00	0.00
ATOM	1067	HA	GLU	68	-3.473	-4.767	12.978	1.00	0.00
ATOM	1068	CB	GLU	68	-2.473	-4.101	11.203	1.00	0.00
ATOM	1069	HB2	GLU	68	-2.564	-3.283	10.489	1.00	0.00
ATOM	1070	HB3	GLU	68	-1.558	-3.977	11.783	1.00	0.00
ATOM	1071	CG	GLU	68	-2.422	-5.431	10.449	1.00	0.00
ATOM	1072	HG2	GLU	68	-2.217	-6.240	11.151	1.00	0.00
ATOM	1073	HG3	GLU	68	-3.380	-5.609	9.961	1.00	0.00
ATOM	1074	CD	GLU	68	-1.315	-5.379	9.394	1.00	0.00
ATOM	1075	OE1	GLU	68	-0.746	-4.315	9.212	1.00	0.00
ATOM	1076	OE2	GLU	68	-1.054	-6.405	8.786	1.00	0.00
ATOM	1077	C	GLU	68	-3.902	-2.679	12.680	1.00	0.00
ATOM	1078	O	GLU	68	-3.020	-2.081	13.263	1.00	0.00
ATOM	1079	N	ASN	69	-5.074	-2.138	12.489	1.00	0.00
ATOM	1080	H	ASN	69	-5.814	-2.628	12.007	1.00	0.00
ATOM	1081	CA	ASN	69	-5.347	-0.760	12.989	1.00	0.00
ATOM	1082	HA	ASN	69	-6.271	-0.377	12.557	1.00	0.00
ATOM	1083	CB	ASN	69	-5.495	-0.791	14.512	1.00	0.00
ATOM	1084	HB2	ASN	69	-4.561	-1.110	14.976	1.00	0.00
ATOM	1085	HB3	ASN	69	-5.767	0.196	14.885	1.00	0.00
ATOM	1086	CG	ASN	69	-6.595	-1.780	14.898	1.00	0.00
ATOM	1087	OD1	ASN	69	-7.530	-1.992	14.150	1.00	0.00

ATOM	1088	ND2	ASN	69	-6.524	-2.401	16.044	1.00	0.00
ATOM	1089	HD21	ASN	69	-7.247	-3.056	16.306	1.00	0.00
ATOM	1090	HD22	ASN	69	-5.746	-2.224	16.664	1.00	0.00
ATOM	1091	C	ASN	69	-4.184	0.158	12.606	1.00	0.00
ATOM	1092	O	ASN	69	-3.927	1.152	13.256	1.00	0.00
ATOM	1093	N	THR	70	-3.481	-0.169	11.558	1.00	0.00
ATOM	1094	H	THR	70	-3.692	-0.995	11.015	1.00	0.00
ATOM	1095	CA	THR	70	-2.333	0.683	11.132	1.00	0.00
ATOM	1096	HA	THR	70	-1.466	0.499	11.766	1.00	0.00
ATOM	1097	CB	THR	70	-1.960	0.349	9.685	1.00	0.00
ATOM	1098	HB	THR	70	-0.951	0.707	9.479	1.00	0.00
ATOM	1099	CG2	THR	70	-2.015	-1.166	9.477	1.00	0.00
ATOM	1100	HG21	THR	70	-3.023	-1.526	9.683	1.00	0.00
ATOM	1101	HG22	THR	70	-1.749	-1.402	8.446	1.00	0.00
ATOM	1102	HG23	THR	70	-1.311	-1.652	10.153	1.00	0.00
ATOM	1103	OG1	THR	70	-2.874	0.984	8.802	1.00	0.00
ATOM	1104	HG1	THR	70	-2.640	0.774	7.895	1.00	0.00
ATOM	1105	C	THR	70	-2.728	2.158	11.229	1.00	0.00
ATOM	1106	O	THR	70	-3.894	2.500	11.236	1.00	0.00
ATOM	1107	N	GLN	71	-1.765	3.037	11.305	1.00	0.00
ATOM	1108	H	GLN	71	-0.793	2.761	11.300	1.00	0.00
ATOM	1109	CA	GLN	71	-2.088	4.489	11.402	1.00	0.00



ATOM	1110	HA	GLN	71	-2.707	4.795	10.559	1.00	0.00
ATOM	1111	CB	GLN	71	-2.858	4.755	12.696	1.00	0.00
ATOM	1112	HB2	GLN	71	-3.798	4.204	12.680	1.00	0.00
ATOM	1113	HB3	GLN	71	-2.261	4.430	13.548	1.00	0.00
ATOM	1114	CG	GLN	71	-3.147	6.254	12.817	1.00	0.00
ATOM	1115	HG2	GLN	71	-2.235	6.828	12.654	1.00	0.00
ATOM	1116	HG3	GLN	71	-3.900	6.554	12.088	1.00	0.00
ATOM	1117	CD	GLN	71	-3.675	6.561	14.221	1.00	0.00
ATOM	1118	OE1	GLN	71	-3.074	6.181	15.206	1.00	0.00
ATOM	1119	NE2	GLN	71	-4.783	7.238	14.353	1.00	0.00
ATOM	1120	HE21	GLN	71	-5.138	7.444	15.276	1.00	0.00
ATOM	1121	HE22	GLN	71	-5.280	7.552	13.532	1.00	0.00
ATOM	1122	C	GLN	71	-0.791	5.302	11.404	1.00	0.00
ATOM	1123	O	GLN	71	-0.735	6.399	10.884	1.00	0.00
ATOM	1124	N	GLY	72	0.251	4.776	11.989	1.00	0.00
ATOM	1125	H	GLY	72	0.213	3.865	12.425	1.00	0.00
ATOM	1126	CA	GLY	72	1.540	5.523	12.025	1.00	0.00
ATOM	1127	HA2	GLY	72	1.382	6.551	11.699	1.00	0.00
ATOM	1128	HA3	GLY	72	1.942	5.520	13.038	1.00	0.00
ATOM	1129	C	GLY	72	2.548	4.853	11.088	1.00	0.00
ATOM	1130	O	GLY	72	2.410	3.698	10.735	1.00	0.00
ATOM	1131	N	CYX	73	3.562	5.568	10.685	1.00	0.00

ATOM	1132	H	CYX	73	3.682	6.528	10.975	1.00	0.00
ATOM	1133	CA	CYX	73	4.578	4.974	9.772	1.00	0.00
ATOM	1134	HA	CYX	73	5.400	5.672	9.615	1.00	0.00
ATOM	1135	CB	CYX	73	5.137	3.693	10.394	1.00	0.00
ATOM	1136	HB2	CYX	73	4.532	3.412	11.256	1.00	0.00
ATOM	1137	HB3	CYX	73	5.113	2.890	9.657	1.00	0.00
ATOM	1138	SG	CYX	73	6.827	3.988	10.973	1.00	0.00
ATOM	1139	C	CYX	73	3.927	4.647	8.425	1.00	0.00
ATOM	1140	O	CYX	73	4.512	3.995	7.583	1.00	0.00
ATOM	1141	N	MET	74	2.720	5.096	8.216	1.00	0.00
ATOM	1142	H	MET	74	2.229	5.639	8.911	1.00	0.00
ATOM	1143	CA	MET	74	2.032	4.811	6.926	1.00	0.00
ATOM	1144	HA	MET	74	1.668	3.783	6.910	1.00	0.00
ATOM	1145	CB	MET	74	0.838	5.756	6.765	1.00	0.00
ATOM	1146	HB2	MET	74	1.195	6.781	6.668	1.00	0.00
ATOM	1147	HB3	MET	74	0.274	5.482	5.873	1.00	0.00
ATOM	1148	CG	MET	74	-0.066	5.644	7.995	1.00	0.00
ATOM	1149	HG2	MET	74	-0.207	4.594	8.254	1.00	0.00
ATOM	1150	HG3	MET	74	0.389	6.167	8.836	1.00	0.00
ATOM	1151	SD	MET	74	-1.675	6.389	7.631	1.00	0.00
ATOM	1152	CE	MET	74	-2.545	4.859	7.209	1.00	0.00
ATOM	1153	HE1	MET	74	-2.529	4.183	8.065	1.00	0.00

ATOM	1154	HE2 MET	74	-3.577	5.088	6.946	1.00	0.00
ATOM	1155	HE3 MET	74	-2.052	4.382	6.362	1.00	0.00
ATOM	1156	C MET	74	3.013	5.024	5.771	1.00	0.00
ATOM	1157	O MET	74	3.239	4.142	4.966	1.00	0.00
ATOM	1158	N CYX	75	3.599	6.187	5.684	1.00	0.00
ATOM	1159	H CYX	75	3.418	6.926	6.348	1.00	0.00
ATOM	1160	CA CYX	75	4.565	6.450	4.581	1.00	0.00
ATOM	1161	HA CYX	75	4.036	6.573	3.636	1.00	0.00
ATOM	1162	CB CYX	75	5.341	7.735	4.878	1.00	0.00
ATOM	1163	HB2 CYX	75	4.648	8.513	5.196	1.00	0.00
ATOM	1164	HB3 CYX	75	6.065	7.547	5.671	1.00	0.00
ATOM	1165	SG CYX	75	6.163	8.304	3.370	1.00	0.00
ATOM	1166	C CYX	75	5.541	5.279	4.468	1.00	0.00
ATOM	1167	O CYX	75	5.750	4.733	3.402	1.00	0.00
ATOM	1168	N GLU	76	6.140	4.883	5.559	1.00	0.00
ATOM	1169	H GLU	76	5.974	5.328	6.450	1.00	0.00
ATOM	1170	CA GLU	76	7.098	3.743	5.507	1.00	0.00
ATOM	1171	HA GLU	76	7.941	3.987	4.861	1.00	0.00
ATOM	1172	CB GLU	76	7.628	3.453	6.913	1.00	0.00
ATOM	1173	HB2 GLU	76	6.801	3.165	7.562	1.00	0.00
ATOM	1174	HB3 GLU	76	8.353	2.640	6.868	1.00	0.00
ATOM	1175	CG GLU	76	8.302	4.707	7.472	1.00	0.00

ATOM	1176	HG2	GLU	76	9.054	5.059	6.766	1.00	0.00
ATOM	1177	HG3	GLU	76	7.554	5.484	7.625	1.00	0.00
ATOM	1178	CD	GLU	76	8.973	4.376	8.807	1.00	0.00
ATOM	1179	OE1	GLU	76	8.966	3.213	9.179	1.00	0.00
ATOM	1180	OE2	GLU	76	9.481	5.289	9.435	1.00	0.00
ATOM	1181	C	GLU	76	6.377	2.507	4.966	1.00	0.00
ATOM	1182	O	GLU	76	6.993	1.566	4.504	1.00	0.00
ATOM	1183	N	ALA	77	5.072	2.508	5.011	1.00	0.00
ATOM	1184	H	ALA	77	4.554	3.286	5.392	1.00	0.00
ATOM	1185	CA	ALA	77	4.310	1.339	4.492	1.00	0.00
ATOM	1186	HA	ALA	77	4.779	0.391	4.759	1.00	0.00
ATOM	1187	CB	ALA	77	2.889	1.359	5.060	1.00	0.00
ATOM	1188	HB1	ALA	77	2.404	2.297	4.793	1.00	0.00
ATOM	1189	HB2	ALA	77	2.321	0.525	4.647	1.00	0.00
ATOM	1190	HB3	ALA	77	2.930	1.267	6.145	1.00	0.00
ATOM	1191	C	ALA	77	4.254	1.418	2.967	1.00	0.00
ATOM	1192	O	ALA	77	4.712	0.531	2.273	1.00	0.00
ATOM	1193	N	LEU	78	3.704	2.475	2.437	1.00	0.00
ATOM	1194	H	LEU	78	3.322	3.218	3.004	1.00	0.00
ATOM	1195	CA	LEU	78	3.632	2.609	0.956	1.00	0.00
ATOM	1196	HA	LEU	78	2.986	1.836	0.539	1.00	0.00
ATOM	1197	CB	LEU	78	3.056	3.978	0.590	1.00	0.00

ATOM	1198	HB2	LEU	78	2.098	4.115	1.091	1.00	0.00
ATOM	1199	HB3	LEU	78	3.746	4.760	0.907	1.00	0.00
ATOM	1200	CG	LEU	78	2.856	4.058	-0.923	1.00	0.00
ATOM	1201	HG	LEU	78	3.766	3.733	-1.428	1.00	0.00
ATOM	1202	CD1	LEU	78	1.694	3.151	-1.333	1.00	0.00
ATOM	1203	HD11	LEU	78	0.784	3.475	-0.829	1.00	0.00
ATOM	1204	HD12	LEU	78	1.551	3.208	-2.412	1.00	0.00
ATOM	1205	HD13	LEU	78	1.918	2.122	-1.050	1.00	0.00
ATOM	1206	CD2	LEU	78	2.541	5.501	-1.322	1.00	0.00
ATOM	1207	HD21	LEU	78	3.369	6.147	-1.031	1.00	0.00
ATOM	1208	HD22	LEU	78	2.399	5.557	-2.401	1.00	0.00
ATOM	1209	HD23	LEU	78	1.631	5.827	-0.818	1.00	0.00
ATOM	1210	C	LEU	78	5.042	2.476	0.380	1.00	0.00
ATOM	1211	O	LEU	78	5.265	1.776	-0.587	1.00	0.00
ATOM	1212	N	GLN	79	5.996	3.141	0.973	1.00	0.00
ATOM	1213	H	GLN	79	5.816	3.724	1.778	1.00	0.00
ATOM	1214	CA	GLN	79	7.392	3.050	0.466	1.00	0.00
ATOM	1215	HA	GLN	79	7.463	3.496	-0.526	1.00	0.00
ATOM	1216	CB	GLN	79	8.332	3.805	1.410	1.00	0.00
ATOM	1217	HB2	GLN	79	8.203	3.432	2.426	1.00	0.00
ATOM	1218	HB3	GLN	79	9.364	3.651	1.095	1.00	0.00
ATOM	1219	CG	GLN	79	8.004	5.299	1.369	1.00	0.00

ATOM	1220	HG2	GLN	79	8.175	5.695	0.368	1.00	0.00
ATOM	1221	HG3	GLN	79	6.966	5.467	1.653	1.00	0.00
ATOM	1222	CD	GLN	79	8.908	6.046	2.352	1.00	0.00
ATOM	1223	OE1	GLN	79	9.131	7.320	2.176	1.00	0.00
ATOM	1224	NE2	GLN	79	9.418	5.464	3.289	1.00	0.00
ATOM	1225	HE21	GLN	79	10.013	5.969	3.930	1.00	0.00
ATOM	1226	HE22	GLN	79	9.245	4.477	3.422	1.00	0.00
ATOM	1227	C	GLN	79	7.807	1.582	0.400	1.00	0.00
ATOM	1228	O	GLN	79	8.371	1.128	-0.575	1.00	0.00
ATOM	1229	N	GLN	80	7.524	0.832	1.429	1.00	0.00
ATOM	1230	H	GLN	80	7.052	1.199	2.242	1.00	0.00
ATOM	1231	CA	GLN	80	7.897	-0.610	1.421	1.00	0.00
ATOM	1232	HA	GLN	80	8.982	-0.719	1.402	1.00	0.00
ATOM	1233	CB	GLN	80	7.360	-1.286	2.684	1.00	0.00
ATOM	1234	HB2	GLN	80	7.684	-0.727	3.562	1.00	0.00
ATOM	1235	HB3	GLN	80	6.271	-1.309	2.650	1.00	0.00
ATOM	1236	CG	GLN	80	7.897	-2.716	2.764	1.00	0.00
ATOM	1237	HG2	GLN	80	7.437	-3.246	3.598	1.00	0.00
ATOM	1238	HG3	GLN	80	7.692	-3.251	1.837	1.00	0.00
ATOM	1239	CD	GLN	80	9.411	-2.681	2.983	1.00	0.00
ATOM	1240	OE1	GLN	80	9.898	-1.954	3.826	1.00	0.00
ATOM	1241	NE2	GLN	80	10.181	-3.441	2.253	1.00	0.00

ATOM	1242	HE21	GLN	80	11.181	-3.424	2.392	1.00	0.00
ATOM	1243	HE22	GLN	80	9.773	-4.044	1.552	1.00	0.00
ATOM	1244	C	GLN	80	7.287	-1.277	0.187	1.00	0.00
ATOM	1245	O	GLN	80	7.952	-1.996	-0.533	1.00	0.00
ATOM	1246	N	ILE	81	6.030	-1.038	-0.066	1.00	0.00
ATOM	1247	H	ILE	81	5.472	-0.440	0.526	1.00	0.00
ATOM	1248	CA	ILE	81	5.383	-1.653	-1.258	1.00	0.00
ATOM	1249	HA	ILE	81	5.252	-2.722	-1.090	1.00	0.00
ATOM	1250	CB	ILE	81	4.018	-1.002	-1.488	1.00	0.00
ATOM	1251	HB	ILE	81	4.142	0.076	-1.584	1.00	0.00
ATOM	1252	CG2	ILE	81	3.395	-1.559	-2.769	1.00	0.00
ATOM	1253	HG21	ILE	81	3.271	-2.638	-2.674	1.00	0.00
ATOM	1254	HG22	ILE	81	2.423	-1.095	-2.932	1.00	0.00
ATOM	1255	HG23	ILE	81	4.047	-1.343	-3.615	1.00	0.00
ATOM	1256	CG1	ILE	81	3.099	-1.306	-0.303	1.00	0.00
ATOM	1257	HG12	ILE	81	3.057	-2.384	-0.144	1.00	0.00
ATOM	1258	HG13	ILE	81	3.489	-0.822	0.592	1.00	0.00
ATOM	1259	CD1	ILE	81	1.693	-0.778	-0.597	1.00	0.00
ATOM	1260	HD11	ILE	81	1.303	-1.262	-1.492	1.00	0.00
ATOM	1261	HD12	ILE	81	1.039	-0.995	0.247	1.00	0.00
ATOM	1262	HD13	ILE	81	1.735	0.299	-0.756	1.00	0.00
ATOM	1263	C	ILE	81	6.273	-1.426	-2.480	1.00	0.00

ATOM	1264	O	ILE	81	6.765	-2.359	-3.085	1.00	0.00
ATOM	1265	N	MET	82	6.490	-0.192	-2.845	1.00	0.00
ATOM	1266	H	MET	82	6.086	0.587	-2.346	1.00	0.00
ATOM	1267	CA	MET	82	7.354	0.095	-4.023	1.00	0.00
ATOM	1268	HA	MET	82	6.824	-0.135	-4.947	1.00	0.00
ATOM	1269	CB	MET	82	7.728	1.579	-4.030	1.00	0.00
ATOM	1270	HB2	MET	82	8.383	1.793	-3.185	1.00	0.00
ATOM	1271	HB3	MET	82	8.245	1.819	-4.959	1.00	0.00
ATOM	1272	CG	MET	82	6.459	2.426	-3.919	1.00	0.00
ATOM	1273	HG2	MET	82	6.016	2.300	-2.931	1.00	0.00
ATOM	1274	HG3	MET	82	6.702	3.476	-4.077	1.00	0.00
ATOM	1275	SD	MET	82	5.270	1.895	-5.176	1.00	0.00
ATOM	1276	CE	MET	82	6.255	2.351	-6.625	1.00	0.00
ATOM	1277	HE1	MET	82	7.196	1.800	-6.614	1.00	0.00
ATOM	1278	HE2	MET	82	5.703	2.106	-7.532	1.00	0.00
ATOM	1279	HE3	MET	82	6.461	3.421	-6.603	1.00	0.00
ATOM	1280	C	MET	82	8.624	-0.750	-3.937	1.00	0.00
ATOM	1281	O	MET	82	8.985	-1.445	-4.864	1.00	0.00
ATOM	1282	N	GLU	83	9.300	-0.701	-2.825	1.00	0.00
ATOM	1283	H	GLU	83	9.004	-0.129	-2.048	1.00	0.00
ATOM	1284	CA	GLU	83	10.545	-1.504	-2.676	1.00	0.00
ATOM	1285	HA	GLU	83	11.224	-1.308	-3.506	1.00	0.00



ATOM	1286	CB	GLU	83	11.246	-1.121	-1.370	1.00	0.00
ATOM	1287	HB2	GLU	83	10.553	-1.239	-0.537	1.00	0.00
ATOM	1288	HB3	GLU	83	12.110	-1.768	-1.217	1.00	0.00
ATOM	1289	CG	GLU	83	11.707	0.336	-1.448	1.00	0.00
ATOM	1290	HG2	GLU	83	12.338	0.472	-2.327	1.00	0.00
ATOM	1291	HG3	GLU	83	10.837	0.988	-1.521	1.00	0.00
ATOM	1292	CD	GLU	83	12.503	0.687	-0.190	1.00	0.00
ATOM	1293	OE1	GLU	83	12.571	-0.146	0.697	1.00	0.00
ATOM	1294	OE2	GLU	83	13.033	1.785	-0.136	1.00	0.00
ATOM	1295	C	GLU	83	10.185	-2.990	-2.647	1.00	0.00
ATOM	1296	O	GLU	83	11.033	-3.848	-2.789	1.00	0.00
ATOM	1297	N	ASN	84	8.930	-3.297	-2.468	1.00	0.00
ATOM	1298	H	ASN	84	8.222	-2.588	-2.349	1.00	0.00
ATOM	1299	CA	ASN	84	8.511	-4.725	-2.434	1.00	0.00
ATOM	1300	HA	ASN	84	9.249	-5.323	-1.898	1.00	0.00
ATOM	1301	CB	ASN	84	7.166	-4.847	-1.714	1.00	0.00
ATOM	1302	HB2	ASN	84	7.209	-4.348	-0.746	1.00	0.00
ATOM	1303	HB3	ASN	84	6.373	-4.404	-2.316	1.00	0.00
ATOM	1304	CG	ASN	84	6.841	-6.324	-1.488	1.00	0.00
ATOM	1305	OD1	ASN	84	7.462	-6.978	-0.674	1.00	0.00
ATOM	1306	ND2	ASN	84	5.886	-6.883	-2.180	1.00	0.00
ATOM	1307	HD21	ASN	84	5.666	-7.859	-2.036	1.00	0.00

ATOM	1308	HD22	ASN	84	5.371	-6.338	-2.857	1.00	0.00
ATOM	1309	C	ASN	84	8.374	-5.248	-3.865	1.00	0.00
ATOM	1310	O	ASN	84	8.423	-6.438	-4.107	1.00	0.00
ATOM	1311	N	GLN	85	8.201	-4.370	-4.816	1.00	0.00
ATOM	1312	H	GLN	85	8.156	-3.379	-4.626	1.00	0.00
ATOM	1313	CA	GLN	85	8.063	-4.826	-6.228	1.00	0.00
ATOM	1314	HA	GLN	85	8.869	-5.514	-6.485	1.00	0.00
ATOM	1315	CB	GLN	85	6.727	-5.553	-6.400	1.00	0.00
ATOM	1316	HB2	GLN	85	6.607	-6.288	-5.604	1.00	0.00
ATOM	1317	HB3	GLN	85	5.911	-4.832	-6.354	1.00	0.00
ATOM	1318	CG	GLN	85	6.704	-6.262	-7.756	1.00	0.00
ATOM	1319	HG2	GLN	85	6.810	-5.538	-8.564	1.00	0.00
ATOM	1320	HG3	GLN	85	7.512	-6.992	-7.816	1.00	0.00
ATOM	1321	CD	GLN	85	5.371	-6.993	-7.926	1.00	0.00
ATOM	1322	OE1	GLN	85	4.669	-7.233	-6.964	1.00	0.00
ATOM	1323	NE2	GLN	85	4.990	-7.360	-9.119	1.00	0.00
ATOM	1324	HE21	GLN	85	4.111	-7.843	-9.239	1.00	0.00
ATOM	1325	HE22	GLN	85	5.576	-7.160	-9.917	1.00	0.00
ATOM	1326	C	GLN	85	8.109	-3.619	-7.171	1.00	0.00
ATOM	1327	O	GLN	85	7.291	-3.484	-8.058	1.00	0.00
ATOM	1328	N	CYX	86	9.063	-2.744	-6.992	1.00	0.00
ATOM	1329	H	CYX	86	9.750	-2.846	-6.258	1.00	0.00

ATOM	1330	CA	CYX	86	9.156	-1.555	-7.888	1.00	0.00
ATOM	1331	HA	CYX	86	8.174	-1.312	-8.294	1.00	0.00
ATOM	1332	CB	CYX	86	9.669	-0.351	-7.095	1.00	0.00
ATOM	1333	HB2	CYX	86	9.873	0.474	-7.778	1.00	0.00
ATOM	1334	HB3	CYX	86	8.915	-0.045	-6.371	1.00	0.00
ATOM	1335	SG	CYX	86	11.221	-0.785	-6.271	1.00	0.00
ATOM	1336	C	CYX	86	10.122	-1.857	-9.034	1.00	0.00
ATOM	1337	O	CYX	86	10.235	-1.102	-9.979	1.00	0.00
ATOM	1338	N	ASP	87	10.824	-2.956	-8.957	1.00	0.00
ATOM	1339	H	ASP	87	10.737	-3.588	-8.174	1.00	0.00
ATOM	1340	CA	ASP	87	11.783	-3.305	-10.042	1.00	0.00
ATOM	1341	HA	ASP	87	12.671	-2.675	-9.980	1.00	0.00
ATOM	1342	CB	ASP	87	12.210	-4.767	-9.893	1.00	0.00
ATOM	1343	HB2	ASP	87	11.339	-5.379	-9.657	1.00	0.00
ATOM	1344	HB3	ASP	87	12.654	-5.113	-10.827	1.00	0.00
ATOM	1345	CG	ASP	87	13.237	-4.887	-8.765	1.00	0.00
ATOM	1346	OD1	ASP	87	13.670	-3.858	-8.272	1.00	0.00
ATOM	1347	OD2	ASP	87	13.573	-6.005	-8.413	1.00	0.00
ATOM	1348	C	ASP	87	11.111	-3.107	-11.402	1.00	0.00
ATOM	1349	O	ASP	87	11.669	-2.507	-12.300	1.00	0.00
ATOM	1350	N	ARG	88	9.917	-3.609	-11.563	1.00	0.00
ATOM	1351	H	ARG	88	9.448	-4.110	-10.822	1.00	0.00

ATOM	1352	CA	ARG	88	9.212	-3.451	-12.866	1.00	0.00
ATOM	1353	HA	ARG	88	9.815	-3.865	-13.675	1.00	0.00
ATOM	1354	CB	ARG	88	7.878	-4.200	-12.818	1.00	0.00
ATOM	1355	HB2	ARG	88	7.293	-3.847	-11.969	1.00	0.00
ATOM	1356	HB3	ARG	88	7.326	-4.019	-13.740	1.00	0.00
ATOM	1357	CG	ARG	88	8.140	-5.700	-12.667	1.00	0.00
ATOM	1358	HG2	ARG	88	8.730	-6.053	-13.513	1.00	0.00
ATOM	1359	HG3	ARG	88	8.687	-5.882	-11.742	1.00	0.00
ATOM	1360	CD	ARG	88	6.808	-6.450	-12.627	1.00	0.00
ATOM	1361	HD2	ARG	88	6.147	-6.005	-11.884	1.00	0.00
ATOM	1362	HD3	ARG	88	6.328	-6.418	-13.605	1.00	0.00
ATOM	1363	NE	ARG	88	7.048	-7.873	-12.260	1.00	0.00
ATOM	1364	HE	ARG	88	6.760	-8.244	-11.365	1.00	0.00
ATOM	1365	CZ	ARG	88	7.642	-8.674	-13.104	1.00	0.00
ATOM	1366	NH1	ARG	88	6.935	-9.485	-13.841	1.00	0.00
ATOM	1367	HH11	ARG	88	5.929	-9.492	-13.757	1.00	0.00
ATOM	1368	HH12	ARG	88	7.397	-10.103	-14.493	1.00	0.00
ATOM	1369	NH2	ARG	88	8.943	-8.661	-13.210	1.00	0.00
ATOM	1370	HH21	ARG	88	9.487	-8.031	-12.638	1.00	0.00
ATOM	1371	HH22	ARG	88	9.400	-9.282	-13.863	1.00	0.00
ATOM	1372	C	ARG	88	8.953	-1.966	-13.134	1.00	0.00
ATOM	1373	O	ARG	88	8.597	-1.577	-14.228	1.00	0.00

ATOM	1374	N	LEU	89	9.132	-1.135	-12.145	1.00	0.00
ATOM	1375	H	LEU	89	9.428	-1.451	-11.232	1.00	0.00
ATOM	1376	CA	LEU	89	8.897	0.323	-12.347	1.00	0.00
ATOM	1377	HA	LEU	89	7.870	0.499	-12.665	1.00	0.00
ATOM	1378	CB	LEU	89	9.137	1.068	-11.032	1.00	0.00
ATOM	1379	HB2	LEU	89	8.650	0.534	-10.216	1.00	0.00
ATOM	1380	HB3	LEU	89	10.208	1.127	-10.839	1.00	0.00
ATOM	1381	CG	LEU	89	8.559	2.480	-11.134	1.00	0.00
ATOM	1382	HG	LEU	89	8.973	2.980	-12.010	1.00	0.00
ATOM	1383	CD1	LEU	89	7.037	2.399	-11.265	1.00	0.00
ATOM	1384	HD11	LEU	89	6.623	1.899	-10.390	1.00	0.00
ATOM	1385	HD12	LEU	89	6.624	3.405	-11.338	1.00	0.00
ATOM	1386	HD13	LEU	89	6.779	1.835	-12.161	1.00	0.00
ATOM	1387	CD2	LEU	89	8.918	3.273	-9.877	1.00	0.00
ATOM	1388	HD21	LEU	89	10.002	3.331	-9.781	1.00	0.00
ATOM	1389	HD22	LEU	89	8.506	4.279	-9.951	1.00	0.00
ATOM	1390	HD23	LEU	89	8.503	2.774	-9.001	1.00	0.00
ATOM	1391	C	LEU	89	9.857	0.852	-13.415	1.00	0.00
ATOM	1392	O	LEU	89	9.674	1.927	-13.950	1.00	0.00
ATOM	1393	N	GLN	90	10.880	0.104	-13.728	1.00	0.00
ATOM	1394	H	GLN	90	11.039	-0.792	-13.288	1.00	0.00
ATOM	1395	CA	GLN	90	11.850	0.565	-14.761	1.00	0.00

ATOM	1396	HA	GLN	90	12.493	1.346	-14.355	1.00	0.00
ATOM	1397	CB	GLN	90	12.726	-0.611	-15.198	1.00	0.00
ATOM	1398	HB2	GLN	90	12.098	-1.480	-15.395	1.00	0.00
ATOM	1399	HB3	GLN	90	13.269	-0.344	-16.105	1.00	0.00
ATOM	1400	CG	GLN	90	13.724	-0.945	-14.086	1.00	0.00
ATOM	1401	HG2	GLN	90	14.296	-0.058	-13.813	1.00	0.00
ATOM	1402	HG3	GLN	90	13.202	-1.325	-13.208	1.00	0.00
ATOM	1403	CD	GLN	90	14.695	-2.019	-14.580	1.00	0.00
ATOM	1404	OE1	GLN	90	14.470	-2.633	-15.604	1.00	0.00
ATOM	1405	NE2	GLN	90	15.772	-2.275	-13.889	1.00	0.00
ATOM	1406	HE21	GLN	90	16.418	-2.983	-14.209	1.00	0.00
ATOM	1407	HE22	GLN	90	15.955	-1.765	-13.037	1.00	0.00
ATOM	1408	C	GLN	90	11.088	1.108	-15.970	1.00	0.00
ATOM	1409	O	GLN	90	11.586	1.929	-16.714	1.00	0.00
ATOM	1410	N	ASP	91	9.880	0.656	-16.174	1.00	0.00
ATOM	1411	H	ASP	91	9.459	-0.026	-15.559	1.00	0.00
ATOM	1412	CA	ASP	91	9.086	1.145	-17.335	1.00	0.00
ATOM	1413	HA	ASP	91	9.645	1.007	-18.261	1.00	0.00
ATOM	1414	CB	ASP	91	7.781	0.354	-17.430	1.00	0.00
ATOM	1415	HB2	ASP	91	7.248	0.417	-16.481	1.00	0.00
ATOM	1416	HB3	ASP	91	7.160	0.770	-18.223	1.00	0.00
ATOM	1417	CG	ASP	91	8.093	-1.110	-17.742	1.00	0.00

ATOM	1418	OD1	ASP	91	9.223	-1.389	-18.109	1.00	0.00
ATOM	1419	OD2	ASP	91	7.198	-1.929	-17.610	1.00	0.00
ATOM	1420	C	ASP	91	8.769	2.630	-17.146	1.00	0.00
ATOM	1421	O	ASP	91	8.499	3.084	-16.051	1.00	0.00
ATOM	1422	N	ARG	92	8.802	3.393	-18.205	1.00	0.00
ATOM	1423	H	ARG	92	9.028	3.024	-19.118	1.00	0.00
ATOM	1424	CA	ARG	92	8.503	4.848	-18.085	1.00	0.00
ATOM	1425	HA	ARG	92	9.079	5.285	-17.269	1.00	0.00
ATOM	1426	CB	ARG	92	8.882	5.557	-19.386	1.00	0.00
ATOM	1427	HB2	ARG	92	9.958	5.478	-19.542	1.00	0.00
ATOM	1428	HB3	ARG	92	8.360	5.088	-20.220	1.00	0.00
ATOM	1429	CG	ARG	92	8.486	7.031	-19.300	1.00	0.00
ATOM	1430	HG2	ARG	92	7.443	7.109	-18.994	1.00	0.00
ATOM	1431	HG3	ARG	92	9.118	7.535	-18.569	1.00	0.00
ATOM	1432	CD	ARG	92	8.666	7.689	-20.669	1.00	0.00
ATOM	1433	HD2	ARG	92	7.954	7.275	-21.383	1.00	0.00
ATOM	1434	HD3	ARG	92	8.518	8.766	-20.592	1.00	0.00
ATOM	1435	NE	ARG	92	10.046	7.431	-21.167	1.00	0.00
ATOM	1436	HE	ARG	92	10.644	6.742	-20.732	1.00	0.00
ATOM	1437	CZ	ARG	92	10.507	8.099	-22.188	1.00	0.00
ATOM	1438	NH1	ARG	92	10.242	9.371	-22.308	1.00	0.00
ATOM	1439	HH11	ARG	92	9.680	9.834	-21.609	1.00	0.00

ATOM	1440	HH12	ARG	92	10.601	9.885	-23.100	1.00	0.00
ATOM	1441	NH2	ARG	92	11.235	7.496	-23.088	1.00	0.00
ATOM	1442	HH21	ARG	92	11.440	6.511	-22.991	1.00	0.00
ATOM	1443	HH22	ARG	92	11.591	8.016	-23.877	1.00	0.00
ATOM	1444	C	ARG	92	7.009	5.041	-17.816	1.00	0.00
ATOM	1445	O	ARG	92	6.576	6.091	-17.383	1.00	0.00
ATOM	1446	N	GLN	93	6.216	4.037	-18.070	1.00	0.00
ATOM	1447	H	GLN	93	6.568	3.161	-18.431	1.00	0.00
ATOM	1448	CA	GLN	93	4.752	4.164	-17.830	1.00	0.00
ATOM	1449	HA	GLN	93	4.395	5.135	-18.170	1.00	0.00
ATOM	1450	CB	GLN	93	4.013	3.071	-18.608	1.00	0.00
ATOM	1451	HB2	GLN	93	4.373	3.050	-19.637	1.00	0.00
ATOM	1452	HB3	GLN	93	4.197	2.103	-18.140	1.00	0.00
ATOM	1453	CG	GLN	93	2.511	3.365	-18.599	1.00	0.00
ATOM	1454	HG2	GLN	93	2.113	3.275	-17.588	1.00	0.00
ATOM	1455	HG3	GLN	93	2.321	4.369	-18.976	1.00	0.00
ATOM	1456	CD	GLN	93	1.790	2.360	-19.500	1.00	0.00
ATOM	1457	OE1	GLN	93	2.419	1.622	-20.232	1.00	0.00
ATOM	1458	NE2	GLN	93	0.487	2.299	-19.476	1.00	0.00
ATOM	1459	HE21	GLN	93	0.005	1.638	-20.068	1.00	0.00
ATOM	1460	HE22	GLN	93	-0.033	2.913	-18.866	1.00	0.00
ATOM	1461	C	GLN	93	4.461	4.012	-16.335	1.00	0.00



ATOM	1462	O	GLN	93	3.785	4.828	-15.740	1.00	0.00
ATOM	1463	N	MET	94	4.965	2.975	-15.724	1.00	0.00
ATOM	1464	H	MET	94	5.530	2.294	-16.212	1.00	0.00
ATOM	1465	CA	MET	94	4.715	2.772	-14.269	1.00	0.00
ATOM	1466	HA	MET	94	3.650	2.628	-14.085	1.00	0.00
ATOM	1467	CB	MET	94	5.465	1.529	-13.789	1.00	0.00
ATOM	1468	HB2	MET	94	6.494	1.564	-14.149	1.00	0.00
ATOM	1469	HB3	MET	94	5.463	1.502	-12.699	1.00	0.00
ATOM	1470	CG	MET	94	4.779	0.274	-14.331	1.00	0.00
ATOM	1471	HG2	MET	94	4.459	0.444	-15.359	1.00	0.00
ATOM	1472	HG3	MET	94	5.473	-0.567	-14.302	1.00	0.00
ATOM	1473	SD	MET	94	3.333	-0.112	-13.313	1.00	0.00
ATOM	1474	CE	MET	94	4.182	-0.171	-11.715	1.00	0.00
ATOM	1475	HE1	MET	94	4.646	0.794	-11.513	1.00	0.00
ATOM	1476	HE2	MET	94	3.463	-0.400	-10.929	1.00	0.00
ATOM	1477	HE3	MET	94	4.950	-0.944	-11.739	1.00	0.00
ATOM	1478	C	MET	94	5.208	3.993	-13.488	1.00	0.00
ATOM	1479	O	MET	94	4.578	4.437	-12.550	1.00	0.00
ATOM	1480	N	VAL	95	6.336	4.533	-13.864	1.00	0.00
ATOM	1481	H	VAL	95	6.867	4.164	-14.640	1.00	0.00
ATOM	1482	CA	VAL	95	6.875	5.721	-13.140	1.00	0.00
ATOM	1483	HA	VAL	95	7.372	5.409	-12.221	1.00	0.00

ATOM	1484	CB	VAL	95	7.893	6.440	-14.027	1.00	0.00
ATOM	1485	HB	VAL	95	7.438	6.671	-14.990	1.00	0.00
ATOM	1486	CG1	VAL	95	8.335	7.737	-13.348	1.00	0.00
ATOM	1487	HG11	VAL	95	8.791	7.506	-12.385	1.00	0.00
ATOM	1488	HG12	VAL	95	9.061	8.249	-13.980	1.00	0.00
ATOM	1489	HG13	VAL	95	7.469	8.380	-13.194	1.00	0.00
ATOM	1490	CG2	VAL	95	9.110	5.537	-14.241	1.00	0.00
ATOM	1491	HG21	VAL	95	8.796	4.611	-14.725	1.00	0.00
ATOM	1492	HG22	VAL	95	9.836	6.048	-14.873	1.00	0.00
ATOM	1493	HG23	VAL	95	9.566	5.306	-13.278	1.00	0.00
ATOM	1494	C	VAL	95	5.733	6.680	-12.793	1.00	0.00
ATOM	1495	O	VAL	95	5.106	6.563	-11.759	1.00	0.00
ATOM	1496	N	GLN	96	5.461	7.628	-13.646	1.00	0.00
ATOM	1497	H	GLN	96	5.980	7.734	-14.506	1.00	0.00
ATOM	1498	CA	GLN	96	4.362	8.593	-13.360	1.00	0.00
ATOM	1499	HA	GLN	96	4.601	9.187	-12.478	1.00	0.00
ATOM	1500	CB	GLN	96	4.187	9.536	-14.553	1.00	0.00
ATOM	1501	HB2	GLN	96	3.903	8.959	-15.433	1.00	0.00
ATOM	1502	HB3	GLN	96	3.408	10.264	-14.329	1.00	0.00
ATOM	1503	CG	GLN	96	5.504	10.265	-14.825	1.00	0.00
ATOM	1504	HG2	GLN	96	5.841	10.789	-13.930	1.00	0.00
ATOM	1505	HG3	GLN	96	6.270	9.555	-15.139	1.00	0.00

ATOM	1506	CD	GLN	96	5.298	11.289	-15.943	1.00	0.00
ATOM	1507	OE1	GLN	96	4.578	12.254	-15.775	1.00	0.00
ATOM	1508	NE2	GLN	96	5.906	11.121	-17.086	1.00	0.00
ATOM	1509	HE21	GLN	96	5.775	11.793	-17.828	1.00	0.00
ATOM	1510	HE22	GLN	96	6.505	10.319	-17.223	1.00	0.00
ATOM	1511	C	GLN	96	3.061	7.831	-13.116	1.00	0.00
ATOM	1512	O	GLN	96	2.421	7.982	-12.094	1.00	0.00
ATOM	1513	N	GLN	97	2.665	7.014	-14.048	1.00	0.00
ATOM	1514	H	GLN	97	3.192	6.889	-14.900	1.00	0.00
ATOM	1515	CA	GLN	97	1.405	6.238	-13.877	1.00	0.00
ATOM	1516	HA	GLN	97	0.540	6.883	-14.027	1.00	0.00
ATOM	1517	CB	GLN	97	1.359	5.110	-14.910	1.00	0.00
ATOM	1518	HB2	GLN	97	1.685	5.489	-15.879	1.00	0.00
ATOM	1519	HB3	GLN	97	2.020	4.301	-14.597	1.00	0.00
ATOM	1520	CG	GLN	97	-0.073	4.583	-15.024	1.00	0.00
ATOM	1521	HG2	GLN	97	-0.109	3.724	-15.695	1.00	0.00
ATOM	1522	HG3	GLN	97	-0.447	4.292	-14.042	1.00	0.00
ATOM	1523	CD	GLN	97	-0.977	5.681	-15.586	1.00	0.00
ATOM	1524	OE1	GLN	97	-0.855	6.057	-16.735	1.00	0.00
ATOM	1525	NE2	GLN	97	-1.888	6.214	-14.818	1.00	0.00
ATOM	1526	HE21	GLN	97	-2.489	6.939	-15.182	1.00	0.00
ATOM	1527	HE22	GLN	97	-1.987	5.898	-13.864	1.00	0.00

ATOM	1528	C	GLN	97	1.354	5.646	-12.467	1.00	0.00
ATOM	1529	O	GLN	97	0.556	6.048	-11.643	1.00	0.00
ATOM	1530	N	PHE	98	2.201	4.695	-12.181	1.00	0.00
ATOM	1531	H	PHE	98	2.868	4.349	-12.856	1.00	0.00
ATOM	1532	CA	PHE	98	2.193	4.086	-10.820	1.00	0.00
ATOM	1533	HA	PHE	98	1.271	3.525	-10.668	1.00	0.00
ATOM	1534	CB	PHE	98	3.379	3.129	-10.664	1.00	0.00
ATOM	1535	HB2	PHE	98	3.426	2.399	-11.473	1.00	0.00
ATOM	1536	HB3	PHE	98	4.330	3.658	-10.598	1.00	0.00
ATOM	1537	CG	PHE	98	3.231	2.342	-9.379	1.00	0.00
ATOM	1538	CD1	PHE	98	2.031	2.390	-8.654	1.00	0.00
ATOM	1539	HD1	PHE	98	1.201	2.995	-9.017	1.00	0.00
ATOM	1540	CE1	PHE	98	1.900	1.662	-7.467	1.00	0.00
ATOM	1541	HE1	PHE	98	0.966	1.700	-6.906	1.00	0.00
ATOM	1542	CZ	PHE	98	2.965	0.885	-6.999	1.00	0.00
ATOM	1543	HZ	PHE	98	2.862	0.318	-6.073	1.00	0.00
ATOM	1544	CE2	PHE	98	4.164	0.835	-7.720	1.00	0.00
ATOM	1545	HE2	PHE	98	4.994	0.229	-7.356	1.00	0.00
ATOM	1546	CD2	PHE	98	4.297	1.563	-8.909	1.00	0.00
ATOM	1547	HD2	PHE	98	5.231	1.524	-9.470	1.00	0.00
ATOM	1548	C	PHE	98	2.292	5.195	-9.774	1.00	0.00
ATOM	1549	O	PHE	98	1.662	5.143	-8.737	1.00	0.00

ATOM	1550	N	LYS	99	3.077	6.201	-10.042	1.00	0.00
ATOM	1551	H	LYS	99	3.603	6.249	-10.903	1.00	0.00
ATOM	1552	CA	LYS	99	3.214	7.318	-9.067	1.00	0.00
ATOM	1553	HA	LYS	99	3.508	6.932	-8.091	1.00	0.00
ATOM	1554	CB	LYS	99	4.289	8.292	-9.551	1.00	0.00
ATOM	1555	HB2	LYS	99	5.202	7.742	-9.779	1.00	0.00
ATOM	1556	HB3	LYS	99	3.940	8.802	-10.449	1.00	0.00
ATOM	1557	CG	LYS	99	4.574	9.323	-8.456	1.00	0.00
ATOM	1558	HG2	LYS	99	3.647	9.824	-8.177	1.00	0.00
ATOM	1559	HG3	LYS	99	4.993	8.821	-7.583	1.00	0.00
ATOM	1560	CD	LYS	99	5.574	10.356	-8.979	1.00	0.00
ATOM	1561	HD2	LYS	99	6.521	9.865	-9.203	1.00	0.00
ATOM	1562	HD3	LYS	99	5.181	10.816	-9.885	1.00	0.00
ATOM	1563	CE	LYS	99	5.797	11.433	-7.915	1.00	0.00
ATOM	1564	HE2	LYS	99	5.617	12.416	-8.349	1.00	0.00
ATOM	1565	HE3	LYS	99	5.110	11.271	-7.084	1.00	0.00
ATOM	1566	NZ	LYS	99	7.200	11.359	-7.420	1.00	0.00
ATOM	1567	HZ1	LYS	99	7.837	11.509	-8.190	1.00	0.00
ATOM	1568	HZ2	LYS	99	7.347	12.069	-6.718	1.00	0.00
ATOM	1569	HZ3	LYS	99	7.368	10.448	-7.017	1.00	0.00
ATOM	1570	C	LYS	99	1.876	8.050	-8.952	1.00	0.00
ATOM	1571	O	LYS	99	1.512	8.540	-7.902	1.00	0.00

ATOM	1572	N	ARG	100	1.139	8.121	-10.025	1.00	0.00
ATOM	1573	H	ARG	100	1.437	7.715	-10.901	1.00	0.00
ATOM	1574	CA	ARG	100	-0.179	8.813	-9.979	1.00	0.00
ATOM	1575	HA	ARG	100	-0.067	9.809	-9.551	1.00	0.00
ATOM	1576	CB	ARG	100	-0.737	8.950	-11.397	1.00	0.00
ATOM	1577	HB2	ARG	100	-0.555	8.029	-11.951	1.00	0.00
ATOM	1578	HB3	ARG	100	-1.809	9.139	-11.350	1.00	0.00
ATOM	1579	CG	ARG	100	-0.044	10.116	-12.105	1.00	0.00
ATOM	1580	HG2	ARG	100	-0.191	11.029	-11.529	1.00	0.00
ATOM	1581	HG3	ARG	100	1.023	9.907	-12.189	1.00	0.00
ATOM	1582	CD	ARG	100	-0.641	10.293	-13.503	1.00	0.00
ATOM	1583	HD2	ARG	100	-0.734	9.326	-13.999	1.00	0.00
ATOM	1584	HD3	ARG	100	-1.622	10.763	-13.438	1.00	0.00
ATOM	1585	NE	ARG	100	0.253	11.164	-14.318	1.00	0.00
ATOM	1586	HE	ARG	100	1.159	10.845	-14.631	1.00	0.00
ATOM	1587	CZ	ARG	100	-0.129	12.368	-14.643	1.00	0.00
ATOM	1588	NH1	ARG	100	0.497	13.405	-14.157	1.00	0.00
ATOM	1589	HH11	ARG	100	1.277	13.271	-13.529	1.00	0.00
ATOM	1590	HH12	ARG	100	0.199	14.335	-14.411	1.00	0.00
ATOM	1591	NH2	ARG	100	-1.137	12.536	-15.454	1.00	0.00
ATOM	1592	HH21	ARG	100	-1.619	11.731	-15.829	1.00	0.00
ATOM	1593	HH22	ARG	100	-1.430	13.469	-15.704	1.00	0.00

ATOM	1594	C	ARG	100	-1.143	7.991	-9.125	1.00	0.00
ATOM	1595	O	ARG	100	-1.744	8.490	-8.194	1.00	0.00
ATOM	1596	N	GLU	101	-1.287	6.728	-9.424	1.00	0.00
ATOM	1597	H	GLU	101	-0.788	6.302	-10.192	1.00	0.00
ATOM	1598	CA	GLU	101	-2.202	5.874	-8.618	1.00	0.00
ATOM	1599	HA	GLU	101	-3.216	6.270	-8.653	1.00	0.00
ATOM	1600	CB	GLU	101	-2.212	4.454	-9.187	1.00	0.00
ATOM	1601	HB2	GLU	101	-1.191	4.074	-9.234	1.00	0.00
ATOM	1602	HB3	GLU	101	-2.809	3.809	-8.543	1.00	0.00
ATOM	1603	CG	GLU	101	-2.815	4.469	-10.593	1.00	0.00
ATOM	1604	HG2	GLU	101	-2.144	4.997	-11.270	1.00	0.00
ATOM	1605	HG3	GLU	101	-2.951	3.445	-10.943	1.00	0.00
ATOM	1606	CD	GLU	101	-4.169	5.181	-10.559	1.00	0.00
ATOM	1607	OE1	GLU	101	-4.879	5.017	-9.581	1.00	0.00
ATOM	1608	OE2	GLU	101	-4.474	5.878	-11.514	1.00	0.00
ATOM	1609	C	GLU	101	-1.700	5.843	-7.176	1.00	0.00
ATOM	1610	O	GLU	101	-2.469	5.859	-6.235	1.00	0.00
ATOM	1611	N	LEU	102	-0.407	5.800	-6.997	1.00	0.00
ATOM	1612	H	LEU	102	0.235	5.784	-7.777	1.00	0.00
ATOM	1613	CA	LEU	102	0.156	5.771	-5.620	1.00	0.00
ATOM	1614	HA	LEU	102	-0.147	4.859	-5.106	1.00	0.00
ATOM	1615	CB	LEU	102	1.684	5.805	-5.695	1.00	0.00

ATOM	1616	HB2	LEU	102	1.997	5.747	-6.738	1.00	0.00
ATOM	1617	HB3	LEU	102	2.047	6.735	-5.259	1.00	0.00
ATOM	1618	CG	LEU	102	2.266	4.618	-4.921	1.00	0.00
ATOM	1619	HG	LEU	102	2.183	4.807	-3.851	1.00	0.00
ATOM	1620	CD1	LEU	102	1.495	3.344	-5.275	1.00	0.00
ATOM	1621	HD11	LEU	102	1.579	3.153	-6.345	1.00	0.00
ATOM	1622	HD12	LEU	102	1.912	2.501	-4.723	1.00	0.00
ATOM	1623	HD13	LEU	102	0.445	3.468	-5.010	1.00	0.00
ATOM	1624	CD2	LEU	102	3.739	4.441	-5.295	1.00	0.00
ATOM	1625	HD21	LEU	102	4.290	5.346	-5.041	1.00	0.00
ATOM	1626	HD22	LEU	102	4.155	3.596	-4.745	1.00	0.00
ATOM	1627	HD23	LEU	102	3.823	4.253	-6.366	1.00	0.00
ATOM	1628	C	LEU	102	-0.345	6.986	-4.838	1.00	0.00
ATOM	1629	O	LEU	102	-0.634	6.902	-3.663	1.00	0.00
ATOM	1630	N	MET	103	-0.457	8.116	-5.483	1.00	0.00
ATOM	1631	H	MET	103	-0.223	8.197	-6.462	1.00	0.00
ATOM	1632	CA	MET	103	-0.946	9.329	-4.770	1.00	0.00
ATOM	1633	HA	MET	103	-0.313	9.541	-3.908	1.00	0.00
ATOM	1634	CB	MET	103	-0.904	10.531	-5.715	1.00	0.00
ATOM	1635	HB2	MET	103	-1.356	10.260	-6.669	1.00	0.00
ATOM	1636	HB3	MET	103	-1.456	11.360	-5.274	1.00	0.00
ATOM	1637	CG	MET	103	0.551	10.950	-5.941	1.00	0.00



ATOM	1638	HG2	MET	103	1.030	11.151	-4.983	1.00	0.00
ATOM	1639	HG3	MET	103	1.089	10.153	-6.455	1.00	0.00
ATOM	1640	SD	MET	103	0.596	12.449	-6.955	1.00	0.00
ATOM	1641	CE	MET	103	0.337	13.637	-5.616	1.00	0.00
ATOM	1642	HE1	MET	103	1.143	13.545	-4.887	1.00	0.00
ATOM	1643	HE2	MET	103	0.330	14.648	-6.023	1.00	0.00
ATOM	1644	HE3	MET	103	-0.617	13.434	-5.129	1.00	0.00
ATOM	1645	C	MET	103	-2.385	9.091	-4.310	1.00	0.00
ATOM	1646	O	MET	103	-2.814	9.594	-3.291	1.00	0.00
ATOM	1647	N	SER	104	-3.132	8.321	-5.054	1.00	0.00
ATOM	1648	H	SER	104	-2.779	7.899	-5.901	1.00	0.00
ATOM	1649	CA	SER	104	-4.541	8.044	-4.662	1.00	0.00
ATOM	1650	HA	SER	104	-5.005	8.943	-4.259	1.00	0.00
ATOM	1651	CB	SER	104	-5.333	7.594	-5.891	1.00	0.00
ATOM	1652	HB2	SER	104	-6.374	7.431	-5.614	1.00	0.00
ATOM	1653	HB3	SER	104	-5.278	8.363	-6.661	1.00	0.00
ATOM	1654	OG	SER	104	-4.782	6.384	-6.391	1.00	0.00
ATOM	1655	HG	SER	104	-5.278	6.101	-7.162	1.00	0.00
ATOM	1656	C	SER	104	-4.565	6.937	-3.606	1.00	0.00
ATOM	1657	O	SER	104	-5.423	6.903	-2.747	1.00	0.00
ATOM	1658	N	LEU	105	-3.631	6.027	-3.667	1.00	0.00
ATOM	1659	H	LEU	105	-2.920	6.047	-4.384	1.00	0.00

ATOM	1660	CA	LEU	105	-3.599	4.919	-2.672	1.00	0.00
ATOM	1661	HA	LEU	105	-4.347	4.166	-2.921	1.00	0.00
ATOM	1662	CB	LEU	105	-2.218	4.258	-2.684	1.00	0.00
ATOM	1663	HB2	LEU	105	-1.556	4.822	-3.341	1.00	0.00
ATOM	1664	HB3	LEU	105	-1.808	4.252	-1.674	1.00	0.00
ATOM	1665	CG	LEU	105	-2.338	2.819	-3.194	1.00	0.00
ATOM	1666	HG	LEU	105	-1.400	2.292	-3.017	1.00	0.00
ATOM	1667	CD1	LEU	105	-3.472	2.103	-2.456	1.00	0.00
ATOM	1668	HD11	LEU	105	-4.410	2.628	-2.634	1.00	0.00
ATOM	1669	HD12	LEU	105	-3.554	1.079	-2.821	1.00	0.00
ATOM	1670	HD13	LEU	105	-3.259	2.090	-1.387	1.00	0.00
ATOM	1671	CD2	LEU	105	-2.634	2.833	-4.694	1.00	0.00
ATOM	1672	HD21	LEU	105	-1.824	3.338	-5.220	1.00	0.00
ATOM	1673	HD22	LEU	105	-2.719	1.809	-5.058	1.00	0.00
ATOM	1674	HD23	LEU	105	-3.570	3.361	-4.875	1.00	0.00
ATOM	1675	C	LEU	105	-3.891	5.464	-1.272	1.00	0.00
ATOM	1676	O	LEU	105	-4.734	4.949	-0.565	1.00	0.00
ATOM	1677	N	PRO	106	-3.183	6.530	-0.861	1.00	0.00
ATOM	1678	CD	PRO	106	-2.147	7.228	-1.643	1.00	0.00
ATOM	1679	HD2	PRO	106	-2.497	7.381	-2.664	1.00	0.00
ATOM	1680	HD3	PRO	106	-1.234	6.632	-1.659	1.00	0.00
ATOM	1681	CG	PRO	106	-1.976	8.518	-0.891	1.00	0.00

ATOM	1682	HG2 PRO	106	-2.663	9.266	-1.287	1.00	0.00
ATOM	1683	HG3 PRO	106	-0.951	8.872	-1.001	1.00	0.00
ATOM	1684	CB PRO	106	-2.279	8.200	0.532	1.00	0.00
ATOM	1685	HB2 PRO	106	-2.665	9.102	1.006	1.00	0.00
ATOM	1686	HB3 PRO	106	-1.434	7.820	1.108	1.00	0.00
ATOM	1687	CA PRO	106	-3.378	7.140	0.458	1.00	0.00
ATOM	1688	HA PRO	106	-3.280	6.365	1.218	1.00	0.00
ATOM	1689	C PRO	106	-4.757	7.789	0.568	1.00	0.00
ATOM	1690	O PRO	106	-5.162	8.248	1.618	1.00	0.00
ATOM	1691	N GLN	107	-5.486	7.819	-0.513	1.00	0.00
ATOM	1692	H GLN	107	-5.149	7.437	-1.386	1.00	0.00
ATOM	1693	CA GLN	107	-6.844	8.423	-0.485	1.00	0.00
ATOM	1694	HA GLN	107	-6.944	9.085	0.375	1.00	0.00
ATOM	1695	CB GLN	107	-7.070	9.239	-1.759	1.00	0.00
ATOM	1696	HB2 GLN	107	-6.287	9.991	-1.853	1.00	0.00
ATOM	1697	HB3 GLN	107	-7.042	8.577	-2.625	1.00	0.00
ATOM	1698	CG GLN	107	-8.434	9.929	-1.688	1.00	0.00
ATOM	1699	HG2 GLN	107	-9.226	9.188	-1.578	1.00	0.00
ATOM	1700	HG3 GLN	107	-8.465	10.620	-0.846	1.00	0.00
ATOM	1701	CD GLN	107	-8.676	10.716	-2.977	1.00	0.00
ATOM	1702	OE1 GLN	107	-7.789	10.848	-3.798	1.00	0.00
ATOM	1703	NE2 GLN	107	-9.847	11.250	-3.192	1.00	0.00

ATOM	1704	HE21	GLN	107	-10.013	11.770	-4.041	1.00	0.00
ATOM	1705	HE22	GLN	107	-10.582	11.140	-2.508	1.00	0.00
ATOM	1706	C	GLN	107	-7.884	7.308	-0.399	1.00	0.00
ATOM	1707	O	GLN	107	-8.787	7.347	0.412	1.00	0.00
ATOM	1708	N	GLN	108	-7.766	6.313	-1.235	1.00	0.00
ATOM	1709	H	GLN	108	-7.019	6.276	-1.914	1.00	0.00
ATOM	1710	CA	GLN	108	-8.748	5.193	-1.204	1.00	0.00
ATOM	1711	HA	GLN	108	-9.713	5.524	-1.587	1.00	0.00
ATOM	1712	CB	GLN	108	-8.241	4.047	-2.082	1.00	0.00
ATOM	1713	HB2	GLN	108	-8.041	4.419	-3.087	1.00	0.00
ATOM	1714	HB3	GLN	108	-7.323	3.641	-1.656	1.00	0.00
ATOM	1715	CG	GLN	108	-9.302	2.947	-2.148	1.00	0.00
ATOM	1716	HG2	GLN	108	-9.582	2.628	-1.144	1.00	0.00
ATOM	1717	HG3	GLN	108	-10.186	3.306	-2.675	1.00	0.00
ATOM	1718	CD	GLN	108	-8.738	1.742	-2.904	1.00	0.00
ATOM	1719	OE1	GLN	108	-7.829	1.087	-2.436	1.00	0.00
ATOM	1720	NE2	GLN	108	-9.245	1.419	-4.063	1.00	0.00
ATOM	1721	HE21	GLN	108	-8.878	0.624	-4.568	1.00	0.00
ATOM	1722	HE22	GLN	108	-10.002	1.964	-4.449	1.00	0.00
ATOM	1723	C	GLN	108	-8.915	4.699	0.233	1.00	0.00
ATOM	1724	O	GLN	108	-9.959	4.208	0.615	1.00	0.00
ATOM	1725	N	CYX	109	-7.894	4.825	1.035	1.00	0.00

ATOM	1726	H	CYX	109	-7.022	5.230	0.725	1.00	0.00
ATOM	1727	CA	CYX	109	-7.994	4.362	2.448	1.00	0.00
ATOM	1728	HA	CYX	109	-9.037	4.198	2.718	1.00	0.00
ATOM	1729	CB	CYX	109	-7.233	3.042	2.614	1.00	0.00
ATOM	1730	HB2	CYX	109	-6.785	3.002	3.607	1.00	0.00
ATOM	1731	HB3	CYX	109	-7.922	2.206	2.493	1.00	0.00
ATOM	1732	SG	CYX	109	-5.891	2.949	1.400	1.00	0.00
ATOM	1733	C	CYX	109	-7.389	5.421	3.374	1.00	0.00
ATOM	1734	O	CYX	109	-6.919	5.118	4.453	1.00	0.00
ATOM	1735	N	ASN	110	-7.401	6.658	2.961	1.00	0.00
ATOM	1736	H	ASN	110	-7.791	6.913	2.065	1.00	0.00
ATOM	1737	CA	ASN	110	-6.830	7.737	3.816	1.00	0.00
ATOM	1738	HA	ASN	110	-6.642	8.631	3.221	1.00	0.00
ATOM	1739	CB	ASN	110	-7.823	8.088	4.926	1.00	0.00
ATOM	1740	HB2	ASN	110	-7.919	7.255	5.623	1.00	0.00
ATOM	1741	HB3	ASN	110	-7.490	8.975	5.464	1.00	0.00
ATOM	1742	CG	ASN	110	-9.195	8.374	4.313	1.00	0.00
ATOM	1743	OD1	ASN	110	-9.301	9.099	3.344	1.00	0.00
ATOM	1744	ND2	ASN	110	-10.258	7.831	4.841	1.00	0.00
ATOM	1745	HD21	ASN	110	-11.167	8.015	4.441	1.00	0.00
ATOM	1746	HD22	ASN	110	-10.166	7.228	5.647	1.00	0.00
ATOM	1747	C	ASN	110	-5.519	7.257	4.440	1.00	0.00

ATOM	1748	O	ASN	110	-5.279	7.435	5.618	1.00	0.00
ATOM	1749	N	PHE	111	-4.666	6.648	3.660	1.00	0.00
ATOM	1750	H	PHE	111	-4.856	6.491	2.680	1.00	0.00
ATOM	1751	CA	PHE	111	-3.372	6.161	4.214	1.00	0.00
ATOM	1752	HA	PHE	111	-3.542	5.594	5.129	1.00	0.00
ATOM	1753	CB	PHE	111	-2.691	5.248	3.193	1.00	0.00
ATOM	1754	HB2	PHE	111	-3.402	4.811	2.492	1.00	0.00
ATOM	1755	HB3	PHE	111	-1.906	5.763	2.640	1.00	0.00
ATOM	1756	CG	PHE	111	-2.029	4.096	3.911	1.00	0.00
ATOM	1757	CD1	PHE	111	-2.784	2.976	4.281	1.00	0.00
ATOM	1758	HD1	PHE	111	-3.848	2.934	4.050	1.00	0.00
ATOM	1759	CE1	PHE	111	-2.170	1.909	4.948	1.00	0.00
ATOM	1760	HE1	PHE	111	-2.758	1.038	5.238	1.00	0.00
ATOM	1761	CZ	PHE	111	-0.802	1.960	5.243	1.00	0.00
ATOM	1762	HZ	PHE	111	-0.324	1.128	5.761	1.00	0.00
ATOM	1763	CE2	PHE	111	-0.048	3.080	4.872	1.00	0.00
ATOM	1764	HE2	PHE	111	1.017	3.121	5.102	1.00	0.00
ATOM	1765	CD2	PHE	111	-0.662	4.147	4.206	1.00	0.00
ATOM	1766	HD2	PHE	111	-0.075	5.018	3.917	1.00	0.00
ATOM	1767	C	PHE	111	-2.465	7.354	4.518	1.00	0.00
ATOM	1768	O	PHE	111	-1.379	7.203	5.040	1.00	0.00
ATOM	1769	N	ARG	112	-2.902	8.542	4.197	1.00	0.00

ATOM	1770	H	ARG	112	-3.804	8.677	3.764	1.00	0.00
ATOM	1771	CA	ARG	112	-2.062	9.742	4.471	1.00	0.00
ATOM	1772	HA	ARG	112	-1.211	9.771	3.790	1.00	0.00
ATOM	1773	CB	ARG	112	-2.897	11.008	4.265	1.00	0.00
ATOM	1774	HB2	ARG	112	-3.782	10.967	4.900	1.00	0.00
ATOM	1775	HB3	ARG	112	-2.302	11.882	4.528	1.00	0.00
ATOM	1776	CG	ARG	112	-3.325	11.104	2.798	1.00	0.00
ATOM	1777	HG2	ARG	112	-2.443	11.071	2.158	1.00	0.00
ATOM	1778	HG3	ARG	112	-3.981	10.268	2.554	1.00	0.00
ATOM	1779	CD	ARG	112	-4.071	12.420	2.571	1.00	0.00
ATOM	1780	HD2	ARG	112	-3.422	13.265	2.800	1.00	0.00
ATOM	1781	HD3	ARG	112	-4.406	12.490	1.536	1.00	0.00
ATOM	1782	NE	ARG	112	-5.262	12.476	3.464	1.00	0.00
ATOM	1783	HE	ARG	112	-5.960	11.745	3.459	1.00	0.00
ATOM	1784	CZ	ARG	112	-5.422	13.485	4.277	1.00	0.00
ATOM	1785	NH1	ARG	112	-4.973	13.413	5.500	1.00	0.00
ATOM	1786	HH11	ARG	112	-4.502	12.576	5.814	1.00	0.00
ATOM	1787	HH12	ARG	112	-5.098	14.194	6.127	1.00	0.00
ATOM	1788	NH2	ARG	112	-6.030	14.563	3.867	1.00	0.00
ATOM	1789	HH21	ARG	112	-6.376	14.614	2.920	1.00	0.00
ATOM	1790	HH22	ARG	112	-6.152	15.341	4.499	1.00	0.00
ATOM	1791	C	ARG	112	-1.563	9.691	5.916	1.00	0.00

ATOM	1792	O	ARG	112	-2.176	9.088	6.774	1.00	0.00
ATOM	1793	N	ALA	113	-0.453	10.321	6.194	1.00	0.00
ATOM	1794	H	ALA	113	0.064	10.825	5.488	1.00	0.00
ATOM	1795	CA	ALA	113	0.082	10.306	7.584	1.00	0.00
ATOM	1796	HA	ALA	113	-0.685	10.038	8.311	1.00	0.00
ATOM	1797	CB	ALA	113	1.222	9.291	7.681	1.00	0.00
ATOM	1798	HB1	ALA	113	2.002	9.550	6.965	1.00	0.00
ATOM	1799	HB2	ALA	113	1.636	9.303	8.689	1.00	0.00
ATOM	1800	HB3	ALA	113	0.842	8.294	7.457	1.00	0.00
ATOM	1801	C	ALA	113	0.606	11.697	7.945	1.00	0.00
ATOM	1802	O	ALA	113	0.826	12.529	7.087	1.00	0.00
ATOM	1803	N	PRO	114	0.809	11.948	9.247	1.00	0.00
ATOM	1804	CD	PRO	114	0.566	10.994	10.342	1.00	0.00
ATOM	1805	HD2	PRO	114	1.030	10.037	10.100	1.00	0.00
ATOM	1806	HD3	PRO	114	-0.507	10.854	10.470	1.00	0.00
ATOM	1807	CG	PRO	114	1.203	11.660	11.528	1.00	0.00
ATOM	1808	HG2	PRO	114	2.227	11.302	11.637	1.00	0.00
ATOM	1809	HG3	PRO	114	0.636	11.417	12.427	1.00	0.00
ATOM	1810	CB	PRO	114	1.165	13.126	11.253	1.00	0.00
ATOM	1811	HB2	PRO	114	2.023	13.587	11.742	1.00	0.00
ATOM	1812	HB3	PRO	114	0.252	13.624	11.577	1.00	0.00
ATOM	1813	CA	PRO	114	1.310	13.238	9.736	1.00	0.00



ATOM	1814	HA	PRO	114	0.706	14.030	9.295	1.00	0.00
ATOM	1815	C	PRO	114	2.780	13.452	9.366	1.00	0.00
ATOM	1816	O	PRO	114	3.310	14.538	9.489	1.00	0.00
ATOM	1817	N	GLN	115	3.442	12.423	8.911	1.00	0.00
ATOM	1818	H	GLN	115	3.007	11.517	8.806	1.00	0.00
ATOM	1819	CA	GLN	115	4.875	12.566	8.531	1.00	0.00
ATOM	1820	HA	GLN	115	5.290	13.480	8.955	1.00	0.00
ATOM	1821	CB	GLN	115	5.667	11.373	9.071	1.00	0.00
ATOM	1822	HB2	GLN	115	5.305	10.455	8.607	1.00	0.00
ATOM	1823	HB3	GLN	115	6.724	11.503	8.839	1.00	0.00
ATOM	1824	CG	GLN	115	5.485	11.283	10.588	1.00	0.00
ATOM	1825	HG2	GLN	115	4.437	11.111	10.833	1.00	0.00
ATOM	1826	HG3	GLN	115	6.090	10.473	10.996	1.00	0.00
ATOM	1827	CD	GLN	115	5.929	12.597	11.233	1.00	0.00
ATOM	1828	OE1	GLN	115	7.024	13.066	10.990	1.00	0.00
ATOM	1829	NE2	GLN	115	5.122	13.214	12.051	1.00	0.00
ATOM	1830	HE21	GLN	115	5.410	14.082	12.480	1.00	0.00
ATOM	1831	HE22	GLN	115	4.214	12.820	12.251	1.00	0.00
ATOM	1832	C	GLN	115	4.996	12.611	7.007	1.00	0.00
ATOM	1833	O	GLN	115	4.184	12.054	6.293	1.00	0.00
ATOM	1834	N	ARG	116	6.002	13.268	6.501	1.00	0.00
ATOM	1835	H	ARG	116	6.680	13.733	7.087	1.00	0.00

ATOM	1836	CA	ARG	116	6.173	13.347	5.023	1.00	0.00
ATOM	1837	HA	ARG	116	5.347	12.844	4.519	1.00	0.00
ATOM	1838	CB	ARG	116	6.191	14.814	4.589	1.00	0.00
ATOM	1839	HB2	ARG	116	6.999	15.335	5.102	1.00	0.00
ATOM	1840	HB3	ARG	116	6.348	14.873	3.512	1.00	0.00
ATOM	1841	CG	ARG	116	4.854	15.467	4.946	1.00	0.00
ATOM	1842	HG2	ARG	116	4.043	14.922	4.463	1.00	0.00
ATOM	1843	HG3	ARG	116	4.715	15.442	6.027	1.00	0.00
ATOM	1844	CD	ARG	116	4.851	16.919	4.464	1.00	0.00
ATOM	1845	HD2	ARG	116	5.765	17.423	4.778	1.00	0.00
ATOM	1846	HD3	ARG	116	4.772	16.956	3.377	1.00	0.00
ATOM	1847	NE	ARG	116	3.684	17.635	5.053	1.00	0.00
ATOM	1848	HE	ARG	116	3.778	18.205	5.881	1.00	0.00
ATOM	1849	CZ	ARG	116	2.509	17.535	4.496	1.00	0.00
ATOM	1850	NH1	ARG	116	2.292	16.623	3.588	1.00	0.00
ATOM	1851	HH11	ARG	116	3.037	15.995	3.319	1.00	0.00
ATOM	1852	HH12	ARG	116	1.381	16.548	3.159	1.00	0.00
ATOM	1853	NH2	ARG	116	1.548	18.345	4.849	1.00	0.00
ATOM	1854	HH21	ARG	116	1.718	19.048	5.554	1.00	0.00
ATOM	1855	HH22	ARG	116	0.640	18.264	4.416	1.00	0.00
ATOM	1856	C	ARG	116	7.491	12.681	4.624	1.00	0.00
ATOM	1857	O	ARG	116	8.436	12.649	5.386	1.00	0.00

ATOM	1858	N	CYX	117	7.561	12.146	3.436	1.00	0.00
ATOM	1859	H	CYX	117	6.779	12.168	2.797	1.00	0.00
ATOM	1860	CA	CYX	117	8.817	11.482	2.991	1.00	0.00
ATOM	1861	HA	CYX	117	9.548	11.474	3.800	1.00	0.00
ATOM	1862	CB	CYX	117	8.516	10.036	2.590	1.00	0.00
ATOM	1863	HB2	CYX	117	7.743	10.024	1.822	1.00	0.00
ATOM	1864	HB3	CYX	117	9.421	9.570	2.200	1.00	0.00
ATOM	1865	SG	CYX	117	7.886	9.131	4.025	1.00	0.00
ATOM	1866	C	CYX	117	9.393	12.233	1.789	1.00	0.00
ATOM	1867	O	CYX	117	8.696	12.951	1.101	1.00	0.00
ATOM	1868	N	ASP	118	10.663	12.072	1.530	1.00	0.00
ATOM	1869	H	ASP	118	11.250	11.477	2.097	1.00	0.00
ATOM	1870	CA	ASP	118	11.281	12.777	0.372	1.00	0.00
ATOM	1871	HA	ASP	118	10.988	13.826	0.368	1.00	0.00
ATOM	1872	CB	ASP	118	12.805	12.696	0.480	1.00	0.00
ATOM	1873	HB2	ASP	118	13.116	11.651	0.492	1.00	0.00
ATOM	1874	HB3	ASP	118	13.256	13.198	-0.376	1.00	0.00
ATOM	1875	CG	ASP	118	13.262	13.378	1.771	1.00	0.00
ATOM	1876	OD1	ASP	118	12.468	14.103	2.348	1.00	0.00
ATOM	1877	OD2	ASP	118	14.398	13.162	2.162	1.00	0.00
ATOM	1878	C	ASP	118	10.825	12.115	-0.930	1.00	0.00
ATOM	1879	O	ASP	118	10.612	10.921	-0.988	1.00	0.00

ATOM	1880	N	LEU	119	10.671	12.883	-1.974	1.00	0.00
ATOM	1881	H	LEU	119	10.846	13.876	-1.933	1.00	0.00
ATOM	1882	CA	LEU	119	10.226	12.297	-3.269	1.00	0.00
ATOM	1883	HA	LEU	119	9.414	11.589	-3.105	1.00	0.00
ATOM	1884	CB	LEU	119	9.724	13.414	-4.186	1.00	0.00
ATOM	1885	HB2	LEU	119	10.425	14.248	-4.159	1.00	0.00
ATOM	1886	HB3	LEU	119	9.643	13.040	-5.207	1.00	0.00
ATOM	1887	CG	LEU	119	8.350	13.887	-3.706	1.00	0.00
ATOM	1888	HG	LEU	119	7.743	13.023	-3.434	1.00	0.00
ATOM	1889	CD1	LEU	119	8.521	14.795	-2.487	1.00	0.00
ATOM	1890	HD11	LEU	119	9.128	15.658	-2.759	1.00	0.00
ATOM	1891	HD12	LEU	119	7.543	15.132	-2.145	1.00	0.00
ATOM	1892	HD13	LEU	119	9.015	14.242	-1.688	1.00	0.00
ATOM	1893	CD2	LEU	119	7.655	14.662	-4.827	1.00	0.00
ATOM	1894	HD21	LEU	119	7.533	14.014	-5.695	1.00	0.00
ATOM	1895	HD22	LEU	119	6.677	14.998	-4.484	1.00	0.00
ATOM	1896	HD23	LEU	119	8.260	15.526	-5.101	1.00	0.00
ATOM	1897	C	LEU	119	11.400	11.578	-3.937	1.00	0.00
ATOM	1898	O	LEU	119	11.219	10.732	-4.789	1.00	0.00
ATOM	1899	N	ASP	120	12.605	11.906	-3.555	1.00	0.00
ATOM	1900	H	ASP	120	12.766	12.609	-2.848	1.00	0.00
ATOM	1901	CA	ASP	120	13.787	11.238	-4.169	1.00	0.00

ATOM	1902	HA	ASP	120	13.731	11.295	-5.256	1.00	0.00
ATOM	1903	CB	ASP	120	15.067	11.938	-3.708	1.00	0.00
ATOM	1904	HB2	ASP	120	15.930	11.466	-4.178	1.00	0.00
ATOM	1905	HB3	ASP	120	15.029	12.989	-3.992	1.00	0.00
ATOM	1906	CG	ASP	120	15.189	11.825	-2.187	1.00	0.00
ATOM	1907	OD1	ASP	120	14.179	11.581	-1.547	1.00	0.00
ATOM	1908	OD2	ASP	120	16.291	11.984	-1.688	1.00	0.00
ATOM	1909	C	ASP	120	13.824	9.770	-3.740	1.00	0.00
ATOM	1910	O	ASP	120	14.283	8.912	-4.467	1.00	0.00
ATOM	1911	N	VAL	121	13.346	9.475	-2.562	1.00	0.00
ATOM	1912	H	VAL	121	12.964	10.182	-1.952	1.00	0.00
ATOM	1913	CA	VAL	121	13.355	8.062	-2.087	1.00	0.00
ATOM	1914	HA	VAL	121	14.380	7.709	-1.967	1.00	0.00
ATOM	1915	CB	VAL	121	12.647	7.976	-0.733	1.00	0.00
ATOM	1916	HB	VAL	121	11.686	8.486	-0.792	1.00	0.00
ATOM	1917	CG1	VAL	121	12.422	6.507	-0.367	1.00	0.00
ATOM	1918	HG11	VAL	121	13.383	5.995	-0.307	1.00	0.00
ATOM	1919	HG12	VAL	121	11.918	6.445	0.597	1.00	0.00
ATOM	1920	HG13	VAL	121	11.805	6.032	-1.130	1.00	0.00
ATOM	1921	CG2	VAL	121	13.514	8.641	0.338	1.00	0.00
ATOM	1922	HG21	VAL	121	13.675	9.687	0.078	1.00	0.00
ATOM	1923	HG22	VAL	121	13.011	8.580	1.303	1.00	0.00

ATOM	1924	HG23	VAL	121	14.475	8.129	0.397	1.00	0.00
ATOM	1925	C	VAL	121	12.625	7.178	-3.101	1.00	0.00
ATOM	1926	O	VAL	121	13.098	6.123	-3.473	1.00	0.00
ATOM	1927	N	SER	122	11.477	7.601	-3.552	1.00	0.00
ATOM	1928	H	SER	122	11.078	8.477	-3.247	1.00	0.00
ATOM	1929	CA	SER	122	10.718	6.785	-4.542	1.00	0.00
ATOM	1930	HA	SER	122	10.460	5.816	-4.114	1.00	0.00
ATOM	1931	CB	SER	122	9.426	7.512	-4.921	1.00	0.00
ATOM	1932	HB2	SER	122	9.669	8.443	-5.433	1.00	0.00
ATOM	1933	HB3	SER	122	8.833	6.879	-5.581	1.00	0.00
ATOM	1934	OG	SER	122	8.682	7.798	-3.746	1.00	0.00
ATOM	1935	HG	SER	122	7.872	8.254	-3.984	1.00	0.00
ATOM	1936	C	SER	122	11.572	6.577	-5.794	1.00	0.00
ATOM	1937	O	SER	122	11.520	5.543	-6.429	1.00	0.00
ATOM	1938	N	GLY	123	12.359	7.554	-6.156	1.00	0.00
ATOM	1939	H	GLY	123	12.408	8.417	-5.634	1.00	0.00
ATOM	1940	CA	GLY	123	13.215	7.411	-7.367	1.00	0.00
ATOM	1941	HA2	GLY	123	12.725	6.763	-8.094	1.00	0.00
ATOM	1942	HA3	GLY	123	13.393	8.389	-7.814	1.00	0.00
ATOM	1943	C	GLY	123	14.557	6.792	-6.974	1.00	0.00
ATOM	1944	O	GLY	123	15.502	6.795	-7.738	1.00	0.00
ATOM	1945	N	GLY	124	14.649	6.257	-5.786	1.00	0.00

ATOM	1946	H	GLY	124	13.869	6.249	-5.145	1.00	0.00
ATOM	1947	CA	GLY	124	15.930	5.637	-5.346	1.00	0.00
ATOM	1948	HA2	GLY	124	16.738	6.366	-5.410	1.00	0.00
ATOM	1949	HA3	GLY	124	15.839	5.284	-4.318	1.00	0.00
ATOM	1950	C	GLY	124	16.260	4.449	-6.252	1.00	0.00
ATOM	1951	O	GLY	124	16.271	4.562	-7.461	1.00	0.00
ATOM	1952	N	ARG	125	16.529	3.308	-5.676	1.00	0.00
ATOM	1953	H	ARG	125	16.522	3.204	-4.671	1.00	0.00
ATOM	1954	CA	ARG	125	16.856	2.115	-6.506	1.00	0.00
ATOM	1955	HA	ARG	125	17.730	2.313	-7.127	1.00	0.00
ATOM	1956	CB	ARG	125	17.166	0.927	-5.591	1.00	0.00
ATOM	1957	HB2	ARG	125	16.341	0.778	-4.895	1.00	0.00
ATOM	1958	HB3	ARG	125	17.299	0.028	-6.193	1.00	0.00
ATOM	1959	CG	ARG	125	18.449	1.210	-4.808	1.00	0.00
ATOM	1960	HG2	ARG	125	19.248	1.473	-5.501	1.00	0.00
ATOM	1961	HG3	ARG	125	18.280	2.037	-4.119	1.00	0.00
ATOM	1962	CD	ARG	125	18.850	-0.038	-4.018	1.00	0.00
ATOM	1963	HD2	ARG	125	17.997	-0.423	-3.460	1.00	0.00
ATOM	1964	HD3	ARG	125	19.220	-0.810	-4.693	1.00	0.00
ATOM	1965	NE	ARG	125	19.932	0.312	-3.055	1.00	0.00
ATOM	1966	HE	ARG	125	19.866	1.124	-2.458	1.00	0.00
ATOM	1967	CZ	ARG	125	20.996	-0.438	-2.969	1.00	0.00

ATOM	1968	NH1	ARG	125	21.598	-0.844	-4.054	1.00	0.00
ATOM	1969	HH11	ARG	125	21.238	-0.576	-4.959	1.00	0.00
ATOM	1970	HH12	ARG	125	22.422	-1.425	-3.984	1.00	0.00
ATOM	1971	NH2	ARG	125	21.459	-0.783	-1.799	1.00	0.00
ATOM	1972	HH21	ARG	125	20.992	-0.468	-0.961	1.00	0.00
ATOM	1973	HH22	ARG	125	22.283	-1.364	-1.737	1.00	0.00
ATOM	1974	C	ARG	125	15.661	1.773	-7.398	1.00	0.00
ATOM	1975	O	ARG	125	15.817	1.286	-8.502	1.00	0.00
ATOM	1976	N	CYX	126	14.470	2.024	-6.932	1.00	0.00
ATOM	1977	H	CYX	126	14.334	2.428	-6.017	1.00	0.00
ATOM	1978	CA	CYX	126	13.266	1.714	-7.754	1.00	0.00
ATOM	1979	HA	CYX	126	13.243	0.654	-8.007	1.00	0.00
ATOM	1980	CB	CYX	126	12.005	2.054	-6.958	1.00	0.00
ATOM	1981	HB2	CYX	126	12.070	3.079	-6.595	1.00	0.00
ATOM	1982	HB3	CYX	126	11.131	1.950	-7.600	1.00	0.00
ATOM	1983	SG	CYX	126	11.889	0.965	-5.518	1.00	0.00
ATOM	1984	C	CYX	126	13.300	2.546	-9.038	1.00	0.00
ATOM	1985	O	CYX	126	12.694	2.196	-10.032	1.00	0.00
ATOM	1986	N	SER	127	14.005	3.643	-9.026	1.00	0.00
ATOM	1987	H	SER	127	14.513	3.937	-8.204	1.00	0.00
ATOM	1988	CA	SER	127	14.079	4.496	-10.245	1.00	0.00
ATOM	1989	HA	SER	127	14.752	5.337	-10.078	1.00	0.00



ATOM	1990	CB	SER	127	14.613	3.668	-11.416	1.00	0.00
ATOM	1991	HB2	SER	127	15.693	3.795	-11.489	1.00	0.00
ATOM	1992	HB3	SER	127	14.383	2.615	-11.252	1.00	0.00
ATOM	1993	OG	SER	127	14.003	4.103	-12.622	1.00	0.00
ATOM	1994	HG	SER	127	14.339	3.583	-13.356	1.00	0.00
ATOM	1995	C	SER	127	12.681	5.018	-10.588	1.00	0.00
ATOM	1996	O	SER	127	11.732	4.556	-9.977	1.00	0.00
ATOM	1997	OXT	SER	127	12.585	5.873	-11.453	1.00	0.00

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ATOM	1998	S1	LIG	128	-25.710	13.916	1.899	1.00	0.00
ATOM	1999	S2	LIG	128	-18.259	14.566	3.990	1.00	0.00
ATOM	2000	O1	LIG	128	-21.981	16.533	7.094	1.00	0.00
ATOM	2001	H5	LIG	128	-21.131	16.671	7.564	1.00	0.00
ATOM	2002	O2	LIG	128	-26.488	15.167	1.261	1.00	0.00
ATOM	2003	H6	LIG	128	-26.963	15.572	2.048	1.00	0.00
ATOM	2004	O3	LIG	128	-17.683	13.629	5.162	1.00	0.00
ATOM	2005	H7	LIG	128	-17.742	14.202	5.980	1.00	0.00
ATOM	2006	O4	LIG	128	-24.895	13.348	0.845	1.00	0.00
ATOM	2007	O5	LIG	128	-26.636	13.089	2.659	1.00	0.00
ATOM	2008	O6	LIG	128	-18.307	13.756	2.790	1.00	0.00
ATOM	2009	O7	LIG	128	-17.575	15.850	4.006	1.00	0.00
ATOM	2010	O8	LIG	128	-32.758	16.967	6.620	1.00	0.00

ATOM	2011	O9	LIG	128	-33.288	17.432	4.566	1.00	0.00
ATOM	2012	N1	LIG	128	-24.503	16.597	6.270	1.00	0.00
ATOM	2013	H3	LIG	128	-23.865	16.851	7.008	1.00	0.00
ATOM	2014	H4	LIG	128	-25.493	16.774	6.347	1.00	0.00
ATOM	2015	N2	LIG	128	-26.330	15.835	4.581	1.00	0.00
ATOM	2016	N3	LIG	128	-19.517	15.966	6.803	1.00	0.00
ATOM	2017	N4	LIG	128	-27.256	15.846	3.719	1.00	0.00
ATOM	2018	N5	LIG	128	-18.349	15.516	6.957	1.00	0.00
ATOM	2019	N6	LIG	128	-32.496	17.073	5.427	1.00	0.00
ATOM	2020	C1	LIG	128	-22.689	15.543	5.033	1.00	0.00
ATOM	2021	C2	LIG	128	-22.301	14.831	3.863	1.00	0.00
ATOM	2022	C3	LIG	128	-24.084	15.873	5.218	1.00	0.00
ATOM	2023	C4	LIG	128	-24.599	14.716	3.100	1.00	0.00
ATOM	2024	C5	LIG	128	-23.277	14.421	2.921	1.00	0.00
ATOM	2025	H1	LIG	128	-22.973	13.845	2.057	1.00	0.00
ATOM	2026	C6	LIG	128	-21.666	15.881	5.956	1.00	0.00
ATOM	2027	C7	LIG	128	-19.965	14.864	4.536	1.00	0.00
ATOM	2028	C8	LIG	128	-20.937	14.522	3.635	1.00	0.00
ATOM	2029	H2	LIG	128	-20.655	14.015	2.721	1.00	0.00
ATOM	2030	C9	LIG	128	-25.049	15.461	4.239	1.00	0.00
ATOM	2031	C10	LIG	128	-20.309	15.539	5.746	1.00	0.00
ATOM	2032	C11	LIG	128	-28.543	16.145	4.207	1.00	0.00

ATOM	2033	C12	LIG	128	-17.598	16.049	8.022	1.00	0.00
ATOM	2034	C13	LIG	128	-28.904	16.031	5.561	1.00	0.00
ATOM	2035	H8	LIG	128	-28.176	15.680	6.279	1.00	0.00
ATOM	2036	C14	LIG	128	-29.497	16.533	3.257	1.00	0.00
ATOM	2037	H9	LIG	128	-29.217	16.594	2.213	1.00	0.00
ATOM	2038	C15	LIG	128	-30.195	16.336	5.959	1.00	0.00
ATOM	2039	H10	LIG	128	-30.503	16.249	6.992	1.00	0.00
ATOM	2040	C16	LIG	128	-30.790	16.846	3.651	1.00	0.00
ATOM	2041	H11	LIG	128	-31.539	17.158	2.937	1.00	0.00
ATOM	2042	C17	LIG	128	-31.119	16.748	5.000	1.00	0.00
ATOM	2043	C18	LIG	128	-17.930	17.232	8.704	1.00	0.00
ATOM	2044	H12	LIG	128	-18.795	17.804	8.396	1.00	0.00
ATOM	2045	C19	LIG	128	-16.440	15.339	8.372	1.00	0.00
ATOM	2046	H13	LIG	128	-16.180	14.443	7.822	1.00	0.00
ATOM	2047	C20	LIG	128	-17.123	17.672	9.741	1.00	0.00
ATOM	2048	H14	LIG	128	-17.370	18.590	10.263	1.00	0.00
ATOM	2049	C21	LIG	128	-15.643	15.784	9.420	1.00	0.00
ATOM	2050	H15	LIG	128	-14.755	15.228	9.694	1.00	0.00
ATOM	2051	C22	LIG	128	-15.983	16.948	10.108	1.00	0.00
ATOM	2052	H16	LIG	128	-15.356	17.302	10.918	1.00	0.00
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ATOM	2053	S1	LIG	129	19.780	-14.706	25.788	1.00	0.00

ATOM	2054	S2	LIG	129	19.368	-7.030	26.890	1.00	0.00
ATOM	2055	O1	LIG	129	23.476	-9.046	24.356	1.00	0.00
ATOM	2056	H5	LIG	129	23.594	-8.072	24.337	1.00	0.00
ATOM	2057	O2	LIG	129	20.729	-15.611	26.713	1.00	0.00
ATOM	2058	H6	LIG	129	21.569	-15.699	26.170	1.00	0.00
ATOM	2059	O3	LIG	129	18.991	-6.073	25.655	1.00	0.00
ATOM	2060	H7	LIG	129	19.877	-5.762	25.311	1.00	0.00
ATOM	2061	O4	LIG	129	18.587	-14.425	26.559	1.00	0.00
ATOM	2062	O5	LIG	129	19.692	-15.280	24.453	1.00	0.00
ATOM	2063	O6	LIG	129	18.129	-7.607	27.369	1.00	0.00
ATOM	2064	O7	LIG	129	20.273	-6.333	27.792	1.00	0.00
ATOM	2065	O8	LIG	129	26.441	-19.033	21.524	1.00	0.00
ATOM	2066	O9	LIG	129	25.989	-20.333	23.204	1.00	0.00
ATOM	2067	N1	LIG	129	23.798	-11.677	24.227	1.00	0.00
ATOM	2068	H3	LIG	129	24.195	-10.781	23.995	1.00	0.00
ATOM	2069	H4	LIG	129	24.242	-12.537	23.947	1.00	0.00
ATOM	2070	N2	LIG	129	22.832	-14.072	24.545	1.00	0.00
ATOM	2071	N3	LIG	129	22.216	-6.950	25.060	1.00	0.00
ATOM	2072	N4	LIG	129	22.673	-15.268	24.926	1.00	0.00
ATOM	2073	N5	LIG	129	21.605	-5.847	25.070	1.00	0.00
ATOM	2074	N6	LIG	129	25.891	-19.277	22.592	1.00	0.00
ATOM	2075	C1	LIG	129	21.848	-10.586	25.196	1.00	0.00

ATOM	2076	C2	LIG	129	20.590	-10.748	25.843	1.00	0.00
ATOM	2077	C3	LIG	129	22.579	-11.764	24.787	1.00	0.00
ATOM	2078	C4	LIG	129	20.733	-13.161	25.642	1.00	0.00
ATOM	2079	C5	LIG	129	20.053	-12.045	26.043	1.00	0.00
ATOM	2080	H1	LIG	129	19.077	-12.151	26.499	1.00	0.00
ATOM	2081	C6	LIG	129	22.303	-9.259	24.988	1.00	0.00
ATOM	2082	C7	LIG	129	20.326	-8.344	26.083	1.00	0.00
ATOM	2083	C8	LIG	129	19.865	-9.616	26.288	1.00	0.00
ATOM	2084	H2	LIG	129	18.929	-9.760	26.814	1.00	0.00
ATOM	2085	C9	LIG	129	22.019	-13.065	25.017	1.00	0.00
ATOM	2086	C10	LIG	129	21.560	-8.127	25.399	1.00	0.00
ATOM	2087	C11	LIG	129	23.494	-16.225	24.298	1.00	0.00
ATOM	2088	C12	LIG	129	22.363	-4.699	24.770	1.00	0.00
ATOM	2089	C13	LIG	129	24.139	-16.005	23.069	1.00	0.00
ATOM	2090	H8	LIG	129	23.996	-15.066	22.552	1.00	0.00
ATOM	2091	C14	LIG	129	23.616	-17.463	24.943	1.00	0.00
ATOM	2092	H9	LIG	129	23.095	-17.632	25.877	1.00	0.00
ATOM	2093	C15	LIG	129	24.923	-17.002	22.513	1.00	0.00
ATOM	2094	H10	LIG	129	25.424	-16.864	21.564	1.00	0.00
ATOM	2095	C16	LIG	129	24.406	-18.463	24.394	1.00	0.00
ATOM	2096	H11	LIG	129	24.524	-19.422	24.879	1.00	0.00
ATOM	2097	C17	LIG	129	25.053	-18.215	23.187	1.00	0.00

ATOM	2098	C18	LIG	129	23.768	-4.660	24.776	1.00	0.00
ATOM	2099	H12	LIG	129	24.328	-5.545	25.049	1.00	0.00
ATOM	2100	C19	LIG	129	21.631	-3.538	24.483	1.00	0.00
ATOM	2101	H13	LIG	129	20.549	-3.573	24.507	1.00	0.00
ATOM	2102	C20	LIG	129	24.421	-3.478	24.465	1.00	0.00
ATOM	2103	H14	LIG	129	25.504	-3.441	24.478	1.00	0.00
ATOM	2104	C21	LIG	129	22.295	-2.360	24.162	1.00	0.00
ATOM	2105	H15	LIG	129	21.727	-1.467	23.932	1.00	0.00
ATOM	2106	C22	LIG	129	23.689	-2.327	24.150	1.00	0.00
ATOM	2107	H16	LIG	129	24.208	-1.406	23.913	1.00	0.00

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ATOM	2108	S1	LIG	130	-29.853	-15.797	-5.583	1.00	0.00
ATOM	2109	S2	LIG	130	-22.573	-14.040	-3.527	1.00	0.00
ATOM	2110	O1	LIG	130	-23.925	-19.052	-4.166	1.00	0.00
ATOM	2111	H5	LIG	130	-22.965	-19.051	-3.965	1.00	0.00
ATOM	2112	O2	LIG	130	-30.902	-16.327	-4.490	1.00	0.00
ATOM	2113	H6	LIG	130	-30.856	-17.325	-4.588	1.00	0.00
ATOM	2114	O3	LIG	130	-21.397	-14.149	-4.617	1.00	0.00
ATOM	2115	H7	LIG	130	-20.999	-15.052	-4.453	1.00	0.00
ATOM	2116	O4	LIG	130	-29.766	-14.360	-5.418	1.00	0.00
ATOM	2117	O5	LIG	130	-30.148	-16.385	-6.881	1.00	0.00
ATOM	2118	O6	LIG	130	-23.268	-12.794	-3.782	1.00	0.00

ATOM	2119	O7	LIG	130	-22.051	-14.355	-2.207	1.00	0.00
ATOM	2120	O8	LIG	130	-33.050	-24.118	-6.930	1.00	0.00
ATOM	2121	O9	LIG	130	-34.674	-23.115	-5.896	1.00	0.00
ATOM	2122	N1	LIG	130	-26.466	-19.702	-4.570	1.00	0.00
ATOM	2123	H3	LIG	130	-25.532	-20.054	-4.438	1.00	0.00
ATOM	2124	H4	LIG	130	-27.240	-20.323	-4.752	1.00	0.00
ATOM	2125	N2	LIG	130	-28.901	-18.984	-5.143	1.00	0.00
ATOM	2126	N3	LIG	130	-22.050	-17.374	-3.786	1.00	0.00
ATOM	2127	N4	LIG	130	-30.153	-18.812	-5.086	1.00	0.00
ATOM	2128	N5	LIG	130	-20.988	-16.700	-3.876	1.00	0.00
ATOM	2129	N6	LIG	130	-33.520	-23.180	-6.297	1.00	0.00
ATOM	2130	C1	LIG	130	-25.646	-17.413	-4.448	1.00	0.00
ATOM	2131	C2	LIG	130	-25.969	-16.027	-4.495	1.00	0.00
ATOM	2132	C3	LIG	130	-26.697	-18.381	-4.663	1.00	0.00
ATOM	2133	C4	LIG	130	-28.286	-16.526	-5.009	1.00	0.00
ATOM	2134	C5	LIG	130	-27.293	-15.613	-4.788	1.00	0.00
ATOM	2135	H1	LIG	130	-27.516	-14.556	-4.861	1.00	0.00
ATOM	2136	C6	LIG	130	-24.293	-17.754	-4.195	1.00	0.00
ATOM	2137	C7	LIG	130	-23.671	-15.404	-4.006	1.00	0.00
ATOM	2138	C8	LIG	130	-24.971	-15.052	-4.254	1.00	0.00
ATOM	2139	H2	LIG	130	-25.242	-14.004	-4.255	1.00	0.00
ATOM	2140	C9	LIG	130	-28.032	-17.934	-4.941	1.00	0.00

ATOM	2141	C10	LIG	130	-23.288	-16.779	-3.993	1.00	0.00
ATOM	2142	C11	LIG	130	-30.940	-19.933	-5.412	1.00	0.00
ATOM	2143	C12	LIG	130	-19.783	-17.372	-3.593	1.00	0.00
ATOM	2144	C13	LIG	130	-30.460	-21.031	-6.145	1.00	0.00
ATOM	2145	H8	LIG	130	-29.439	-21.027	-6.504	1.00	0.00
ATOM	2146	C14	LIG	130	-32.281	-19.896	-5.001	1.00	0.00
ATOM	2147	H9	LIG	130	-32.649	-19.035	-4.459	1.00	0.00
ATOM	2148	C15	LIG	130	-31.302	-22.092	-6.433	1.00	0.00
ATOM	2149	H10	LIG	130	-30.962	-22.945	-7.003	1.00	0.00
ATOM	2150	C16	LIG	130	-33.127	-20.960	-5.281	1.00	0.00
ATOM	2151	H11	LIG	130	-34.160	-20.958	-4.965	1.00	0.00
ATOM	2152	C17	LIG	130	-32.623	-22.046	-5.989	1.00	0.00
ATOM	2153	C18	LIG	130	-19.710	-18.609	-2.931	1.00	0.00
ATOM	2154	H12	LIG	130	-20.616	-19.086	-2.581	1.00	0.00
ATOM	2155	C19	LIG	130	-18.608	-16.717	-3.987	1.00	0.00
ATOM	2156	H13	LIG	130	-18.675	-15.752	-4.474	1.00	0.00
ATOM	2157	C20	LIG	130	-18.472	-19.189	-2.700	1.00	0.00
ATOM	2158	H14	LIG	130	-18.411	-20.138	-2.180	1.00	0.00
ATOM	2159	C21	LIG	130	-17.372	-17.312	-3.761	1.00	0.00
ATOM	2160	H15	LIG	130	-16.467	-16.808	-4.075	1.00	0.00
ATOM	2161	C22	LIG	130	-17.301	-18.548	-3.120	1.00	0.00
ATOM	2162	H16	LIG	130	-16.337	-19.006	-2.931	1.00	0.00



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ATOM	2163	S1	LIG	131	-25.080	10.800	-25.570	1.00	0.00
ATOM	2164	S2	LIG	131	-20.512	16.725	-27.655	1.00	0.00
ATOM	2165	O1	LIG	131	-25.672	17.055	-28.446	1.00	0.00
ATOM	2166	H5	LIG	131	-25.297	17.917	-28.725	1.00	0.00
ATOM	2167	O2	LIG	131	-25.631	9.771	-26.672	1.00	0.00
ATOM	2168	H6	LIG	131	-26.546	10.126	-26.886	1.00	0.00
ATOM	2169	O3	LIG	131	-20.496	18.061	-26.763	1.00	0.00
ATOM	2170	H7	LIG	131	-21.138	18.671	-27.229	1.00	0.00
ATOM	2171	O4	LIG	131	-23.707	10.427	-25.298	1.00	0.00
ATOM	2172	O5	LIG	131	-26.046	10.938	-24.490	1.00	0.00
ATOM	2173	O6	LIG	131	-19.683	15.753	-26.971	1.00	0.00
ATOM	2174	O7	LIG	131	-20.282	17.063	-29.051	1.00	0.00
ATOM	2175	O8	LIG	131	-34.039	10.509	-26.525	1.00	0.00
ATOM	2176	O9	LIG	131	-33.410	8.499	-27.052	1.00	0.00
ATOM	2177	N1	LIG	131	-27.219	14.940	-28.028	1.00	0.00
ATOM	2178	H3	LIG	131	-27.190	15.895	-28.346	1.00	0.00
ATOM	2179	H4	LIG	131	-28.088	14.431	-27.972	1.00	0.00
ATOM	2180	N2	LIG	131	-27.534	12.552	-27.042	1.00	0.00
ATOM	2181	N3	LIG	131	-23.424	18.247	-28.470	1.00	0.00
ATOM	2182	N4	LIG	131	-27.784	11.317	-26.929	1.00	0.00
ATOM	2183	N5	LIG	131	-22.480	19.061	-28.278	1.00	0.00

ATOM	2184	N6	LIG	131	-33.184	9.674	-26.798	1.00	0.00
ATOM	2185	C1	LIG	131	-24.838	15.010	-27.523	1.00	0.00
ATOM	2186	C2	LIG	131	-23.703	14.307	-27.028	1.00	0.00
ATOM	2187	C3	LIG	131	-26.124	14.351	-27.517	1.00	0.00
ATOM	2188	C4	LIG	131	-25.066	12.378	-26.480	1.00	0.00
ATOM	2189	C5	LIG	131	-23.848	12.998	-26.503	1.00	0.00
ATOM	2190	H1	LIG	131	-22.984	12.491	-26.093	1.00	0.00
ATOM	2191	C6	LIG	131	-24.627	16.333	-27.991	1.00	0.00
ATOM	2192	C7	LIG	131	-22.240	16.187	-27.514	1.00	0.00
ATOM	2193	C8	LIG	131	-22.422	14.911	-27.052	1.00	0.00
ATOM	2194	H2	LIG	131	-21.564	14.347	-26.709	1.00	0.00
ATOM	2195	C9	LIG	131	-26.239	13.019	-26.995	1.00	0.00
ATOM	2196	C10	LIG	131	-23.354	16.949	-27.979	1.00	0.00
ATOM	2197	C11	LIG	131	-29.149	10.970	-26.888	1.00	0.00
ATOM	2198	C12	LIG	131	-22.611	20.335	-28.861	1.00	0.00
ATOM	2199	C13	LIG	131	-30.171	11.880	-26.570	1.00	0.00
ATOM	2200	H8	LIG	131	-29.916	12.902	-26.323	1.00	0.00
ATOM	2201	C14	LIG	131	-29.460	9.627	-27.143	1.00	0.00
ATOM	2202	H9	LIG	131	-28.663	8.927	-27.362	1.00	0.00
ATOM	2203	C15	LIG	131	-31.489	11.457	-26.542	1.00	0.00
ATOM	2204	H10	LIG	131	-32.294	12.133	-26.292	1.00	0.00
ATOM	2205	C16	LIG	131	-30.779	9.199	-27.123	1.00	0.00

ATOM	2206	H11	LIG	131	-31.044	8.171	-27.327	1.00	0.00
ATOM	2207	C17	LIG	131	-31.777	10.123	-26.827	1.00	0.00
ATOM	2208	C18	LIG	131	-23.536	20.646	-29.871	1.00	0.00
ATOM	2209	H12	LIG	131	-24.183	19.873	-30.264	1.00	0.00
ATOM	2210	C19	LIG	131	-21.724	21.317	-28.396	1.00	0.00
ATOM	2211	H13	LIG	131	-20.997	21.059	-27.635	1.00	0.00
ATOM	2212	C20	LIG	131	-23.586	21.935	-30.380	1.00	0.00
ATOM	2213	H14	LIG	131	-24.291	22.176	-31.166	1.00	0.00
ATOM	2214	C21	LIG	131	-21.789	22.609	-28.905	1.00	0.00
ATOM	2215	H15	LIG	131	-21.109	23.367	-28.537	1.00	0.00
ATOM	2216	C22	LIG	131	-22.720	22.921	-29.895	1.00	0.00
ATOM	2217	H16	LIG	131	-22.763	23.925	-30.301	1.00	0.00
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ATOM	2218	S1	LIG	132	12.811	-2.570	-24.256	1.00	0.00
ATOM	2219	S2	LIG	132	19.012	0.564	-27.724	1.00	0.00
ATOM	2220	O1	LIG	132	14.301	1.061	-29.942	1.00	0.00
ATOM	2221	H5	LIG	132	14.923	1.568	-30.506	1.00	0.00
ATOM	2222	O2	LIG	132	12.197	-3.955	-24.784	1.00	0.00
ATOM	2223	H6	LIG	132	11.449	-3.664	-25.388	1.00	0.00
ATOM	2224	O3	LIG	132	19.227	2.156	-27.669	1.00	0.00
ATOM	2225	H7	LIG	132	18.845	2.482	-28.534	1.00	0.00
ATOM	2226	O4	LIG	132	13.982	-2.903	-23.471	1.00	0.00

ATOM	2227	O5	LIG	132	11.753	-1.734	-23.706	1.00	0.00
ATOM	2228	O6	LIG	132	19.446	0.036	-26.447	1.00	0.00
ATOM	2229	O7	LIG	132	19.539	0.040	-28.975	1.00	0.00
ATOM	2230	O8	LIG	132	4.343	-2.186	-27.325	1.00	0.00
ATOM	2231	O9	LIG	132	4.512	-4.213	-26.565	1.00	0.00
ATOM	2232	N1	LIG	132	12.219	-0.249	-28.947	1.00	0.00
ATOM	2233	H3	LIG	132	12.541	0.357	-29.684	1.00	0.00
ATOM	2234	H4	LIG	132	11.251	-0.525	-28.880	1.00	0.00
ATOM	2235	N2	LIG	132	11.151	-1.628	-27.016	1.00	0.00
ATOM	2236	N3	LIG	132	16.753	1.740	-29.955	1.00	0.00
ATOM	2237	N4	LIG	132	10.579	-2.549	-26.364	1.00	0.00
ATOM	2238	N5	LIG	132	17.831	2.394	-29.954	1.00	0.00
ATOM	2239	N6	LIG	132	4.988	-3.134	-26.892	1.00	0.00
ATOM	2240	C1	LIG	132	14.427	-0.218	-27.923	1.00	0.00
ATOM	2241	C2	LIG	132	15.252	-0.668	-26.853	1.00	0.00
ATOM	2242	C3	LIG	132	13.031	-0.592	-27.934	1.00	0.00
ATOM	2243	C4	LIG	132	13.372	-1.777	-25.796	1.00	0.00
ATOM	2244	C5	LIG	132	14.695	-1.436	-25.799	1.00	0.00
ATOM	2245	H1	LIG	132	15.324	-1.737	-24.971	1.00	0.00
ATOM	2246	C6	LIG	132	15.040	0.584	-28.920	1.00	0.00
ATOM	2247	C7	LIG	132	17.204	0.421	-27.807	1.00	0.00
ATOM	2248	C8	LIG	132	16.631	-0.350	-26.831	1.00	0.00

ATOM	2249	H2	LIG	132	17.250	-0.733	-26.030	1.00	0.00
ATOM	2250	C9	LIG	132	12.499	-1.384	-26.862	1.00	0.00
ATOM	2251	C10	LIG	132	16.411	0.935	-28.877	1.00	0.00
ATOM	2252	C11	LIG	132	9.183	-2.637	-26.526	1.00	0.00
ATOM	2253	C12	LIG	132	18.125	3.137	-31.114	1.00	0.00
ATOM	2254	C13	LIG	132	8.390	-1.580	-27.006	1.00	0.00
ATOM	2255	H8	LIG	132	8.855	-0.635	-27.253	1.00	0.00
ATOM	2256	C14	LIG	132	8.583	-3.843	-26.138	1.00	0.00
ATOM	2257	H9	LIG	132	9.198	-4.643	-25.745	1.00	0.00
ATOM	2258	C15	LIG	132	7.020	-1.743	-27.127	1.00	0.00
ATOM	2259	H10	LIG	132	6.386	-0.945	-27.485	1.00	0.00
ATOM	2260	C16	LIG	132	7.212	-4.014	-26.263	1.00	0.00
ATOM	2261	H11	LIG	132	6.729	-4.939	-25.980	1.00	0.00
ATOM	2262	C17	LIG	132	6.450	-2.962	-26.762	1.00	0.00
ATOM	2263	C18	LIG	132	17.482	2.953	-32.349	1.00	0.00
ATOM	2264	H12	LIG	132	16.730	2.182	-32.454	1.00	0.00
ATOM	2265	C19	LIG	132	19.148	4.089	-30.990	1.00	0.00
ATOM	2266	H13	LIG	132	19.655	4.204	-30.040	1.00	0.00
ATOM	2267	C20	LIG	132	17.845	3.738	-33.432	1.00	0.00
ATOM	2268	H14	LIG	132	17.358	3.592	-34.390	1.00	0.00
ATOM	2269	C21	LIG	132	19.497	4.878	-32.079	1.00	0.00
ATOM	2270	H15	LIG	132	20.281	5.618	-31.978	1.00	0.00

ATOM	2271	C22	LIG	132	18.846	4.707	-33.301	1.00	0.00
ATOM	2272	H16	LIG	132	19.126	5.313	-34.154	1.00	0.00
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ATOM	2273	S1	LIG	133	-6.222	14.273	18.626	1.00	0.00
ATOM	2274	S2	LIG	133	-2.708	20.304	22.030	1.00	0.00
ATOM	2275	O1	LIG	133	-3.082	15.763	24.598	1.00	0.00
ATOM	2276	H5	LIG	133	-2.564	16.362	25.176	1.00	0.00
ATOM	2277	O2	LIG	133	-7.726	13.878	19.023	1.00	0.00
ATOM	2278	H6	LIG	133	-7.604	13.151	19.706	1.00	0.00
ATOM	2279	O3	LIG	133	-1.106	20.318	22.153	1.00	0.00
ATOM	2280	H7	LIG	133	-0.931	19.970	23.074	1.00	0.00
ATOM	2281	O4	LIG	133	-6.309	15.408	17.731	1.00	0.00
ATOM	2282	O5	LIG	133	-5.476	13.080	18.252	1.00	0.00
ATOM	2283	O6	LIG	133	-3.029	20.694	20.672	1.00	0.00
ATOM	2284	O7	LIG	133	-3.295	20.991	23.170	1.00	0.00
ATOM	2285	O8	LIG	133	-7.294	6.098	22.273	1.00	0.00
ATOM	2286	O9	LIG	133	-9.183	6.452	21.265	1.00	0.00
ATOM	2287	N1	LIG	133	-4.534	13.783	23.592	1.00	0.00
ATOM	2288	H3	LIG	133	-3.977	14.087	24.374	1.00	0.00
ATOM	2289	H4	LIG	133	-4.926	12.854	23.557	1.00	0.00
ATOM	2290	N2	LIG	133	-5.818	12.739	21.584	1.00	0.00
ATOM	2291	N3	LIG	133	-2.093	18.107	24.531	1.00	0.00

ATOM	2292	N4	LIG	133	-6.728	12.233	20.865	1.00	0.00
ATOM	2293	N5	LIG	133	-1.307	19.093	24.537	1.00	0.00
ATOM	2294	N6	LIG	133	-8.095	6.817	21.687	1.00	0.00
ATOM	2295	C1	LIG	133	-4.101	15.881	22.436	1.00	0.00
ATOM	2296	C2	LIG	133	-4.317	16.665	21.267	1.00	0.00
ATOM	2297	C3	LIG	133	-4.653	14.547	22.493	1.00	0.00
ATOM	2298	C4	LIG	133	-5.538	14.855	20.210	1.00	0.00
ATOM	2299	C5	LIG	133	-5.029	16.123	20.167	1.00	0.00
ATOM	2300	H1	LIG	133	-5.152	16.715	19.269	1.00	0.00
ATOM	2301	C6	LIG	133	-3.341	16.470	23.479	1.00	0.00
ATOM	2302	C7	LIG	133	-3.094	18.540	22.214	1.00	0.00
ATOM	2303	C8	LIG	133	-3.820	17.989	21.192	1.00	0.00
ATOM	2304	H2	LIG	133	-4.028	18.583	20.312	1.00	0.00
ATOM	2305	C9	LIG	133	-5.384	14.030	21.372	1.00	0.00
ATOM	2306	C10	LIG	133	-2.812	17.779	23.388	1.00	0.00
ATOM	2307	C11	LIG	133	-7.015	10.876	21.107	1.00	0.00
ATOM	2308	C12	LIG	133	-0.666	19.387	25.756	1.00	0.00
ATOM	2309	C13	LIG	133	-6.131	10.002	21.762	1.00	0.00
ATOM	2310	H8	LIG	133	-5.167	10.365	22.090	1.00	0.00
ATOM	2311	C14	LIG	133	-8.239	10.399	20.616	1.00	0.00
ATOM	2312	H9	LIG	133	-8.902	11.073	20.091	1.00	0.00
ATOM	2313	C15	LIG	133	-6.484	8.676	21.953	1.00	0.00

ATOM	2314	H10	LIG	133	-5.821	7.980	22.445	1.00	0.00
ATOM	2315	C16	LIG	133	-8.601	9.073	20.811	1.00	0.00
ATOM	2316	H11	LIG	133	-9.543	8.686	20.451	1.00	0.00
ATOM	2317	C17	LIG	133	-7.719	8.232	21.482	1.00	0.00
ATOM	2318	C18	LIG	133	-1.069	18.873	27.000	1.00	0.00
ATOM	2319	H12	LIG	133	-1.938	18.232	27.060	1.00	0.00
ATOM	2320	C19	LIG	133	0.419	20.272	25.681	1.00	0.00
ATOM	2321	H13	LIG	133	0.704	20.682	24.719	1.00	0.00
ATOM	2322	C20	LIG	133	-0.369	19.224	28.143	1.00	0.00
ATOM	2323	H14	LIG	133	-0.683	18.838	29.106	1.00	0.00
ATOM	2324	C21	LIG	133	1.121	20.609	26.832	1.00	0.00
ATOM	2325	H15	LIG	133	1.964	21.285	26.769	1.00	0.00
ATOM	2326	C22	LIG	133	0.731	20.085	28.064	1.00	0.00
ATOM	2327	H16	LIG	133	1.270	20.357	28.964	1.00	0.00
TER									
ATOM	2328	S1	LIG	134	-25.482	-4.867	14.844	1.00	0.00
ATOM	2329	S2	LIG	134	-24.587	-9.072	21.311	1.00	0.00
ATOM	2330	O1	LIG	134	-26.301	-4.143	21.666	1.00	0.00
ATOM	2331	H5	LIG	134	-26.314	-4.503	22.579	1.00	0.00
ATOM	2332	O2	LIG	134	-24.386	-3.771	14.428	1.00	0.00
ATOM	2333	H6	LIG	134	-24.766	-2.913	14.787	1.00	0.00
ATOM	2334	O3	LIG	134	-25.885	-9.648	22.065	1.00	0.00



ATOM	2335	H7	LIG	134	-26.066	-8.975	22.782	1.00	0.00
ATOM	2336	O4	LIG	134	-24.945	-6.159	14.470	1.00	0.00
ATOM	2337	O5	LIG	134	-26.802	-4.446	14.396	1.00	0.00
ATOM	2338	O6	LIG	134	-24.334	-9.945	20.184	1.00	0.00
ATOM	2339	O7	LIG	134	-23.547	-8.774	22.283	1.00	0.00
ATOM	2340	O8	LIG	134	-28.397	3.657	14.502	1.00	0.00
ATOM	2341	O9	LIG	134	-26.809	3.608	13.024	1.00	0.00
ATOM	2342	N1	LIG	134	-26.330	-2.588	19.517	1.00	0.00
ATOM	2343	H3	LIG	134	-26.500	-2.634	20.509	1.00	0.00
ATOM	2344	H4	LIG	134	-26.512	-1.746	18.991	1.00	0.00
ATOM	2345	N2	LIG	134	-26.158	-2.330	16.933	1.00	0.00
ATOM	2346	N3	LIG	134	-25.869	-6.349	22.860	1.00	0.00
ATOM	2347	N4	LIG	134	-25.795	-1.959	15.779	1.00	0.00
ATOM	2348	N5	LIG	134	-25.988	-7.404	23.541	1.00	0.00
ATOM	2349	N6	LIG	134	-27.444	3.121	13.949	1.00	0.00
ATOM	2350	C1	LIG	134	-25.749	-4.952	19.483	1.00	0.00
ATOM	2351	C2	LIG	134	-25.339	-6.068	18.699	1.00	0.00
ATOM	2352	C3	LIG	134	-26.000	-3.691	18.823	1.00	0.00
ATOM	2353	C4	LIG	134	-25.475	-4.759	16.662	1.00	0.00
ATOM	2354	C5	LIG	134	-25.221	-5.945	17.292	1.00	0.00
ATOM	2355	H1	LIG	134	-24.948	-6.812	16.703	1.00	0.00
ATOM	2356	C6	LIG	134	-25.890	-5.158	20.879	1.00	0.00

ATOM	2357	C7	LIG	134	-25.187	-7.484	20.669	1.00	0.00
ATOM	2358	C8	LIG	134	-25.050	-7.308	19.318	1.00	0.00
ATOM	2359	H2	LIG	134	-24.702	-8.134	18.711	1.00	0.00
ATOM	2360	C9	LIG	134	-25.857	-3.591	17.399	1.00	0.00
ATOM	2361	C10	LIG	134	-25.638	-6.408	21.492	1.00	0.00
ATOM	2362	C11	LIG	134	-26.248	-0.689	15.373	1.00	0.00
ATOM	2363	C12	LIG	134	-26.161	-7.248	24.929	1.00	0.00
ATOM	2364	C13	LIG	134	-27.342	-0.032	15.961	1.00	0.00
ATOM	2365	H8	LIG	134	-27.891	-0.518	16.757	1.00	0.00
ATOM	2366	C14	LIG	134	-25.573	-0.100	14.295	1.00	0.00
ATOM	2367	H9	LIG	134	-24.747	-0.625	13.832	1.00	0.00
ATOM	2368	C15	LIG	134	-27.732	1.213	15.497	1.00	0.00
ATOM	2369	H10	LIG	134	-28.575	1.737	15.925	1.00	0.00
ATOM	2370	C16	LIG	134	-25.955	1.151	13.830	1.00	0.00
ATOM	2371	H11	LIG	134	-25.442	1.629	13.008	1.00	0.00
ATOM	2372	C17	LIG	134	-27.027	1.792	14.443	1.00	0.00
ATOM	2373	C18	LIG	134	-25.901	-6.056	25.626	1.00	0.00
ATOM	2374	H12	LIG	134	-25.517	-5.196	25.093	1.00	0.00
ATOM	2375	C19	LIG	134	-26.595	-8.386	25.625	1.00	0.00
ATOM	2376	H13	LIG	134	-26.767	-9.307	25.082	1.00	0.00
ATOM	2377	C20	LIG	134	-26.105	-6.006	26.996	1.00	0.00
ATOM	2378	H14	LIG	134	-25.896	-5.091	27.538	1.00	0.00

ATOM	2379	C21	LIG	134	-26.806	-8.322	26.997	1.00	0.00
ATOM	2380	H15	LIG	134	-27.150	-9.200	27.530	1.00	0.00
ATOM	2381	C22	LIG	134	-26.565	-7.133	27.685	1.00	0.00
ATOM	2382	H16	LIG	134	-26.717	-7.086	28.757	1.00	0.00
TER									
ATOM	2383	S1	LIG	135	12.440	23.355	-0.749	1.00	0.00
ATOM	2384	S2	LIG	135	11.549	22.675	-8.434	1.00	0.00
ATOM	2385	O1	LIG	135	15.472	20.151	-6.067	1.00	0.00
ATOM	2386	H5	LIG	135	15.508	19.888	-7.012	1.00	0.00
ATOM	2387	O2	LIG	135	13.562	24.329	-0.144	1.00	0.00
ATOM	2388	H6	LIG	135	14.336	23.713	0.033	1.00	0.00
ATOM	2389	O3	LIG	135	10.951	21.313	-9.042	1.00	0.00
ATOM	2390	H7	LIG	135	11.762	20.789	-9.304	1.00	0.00
ATOM	2391	O4	LIG	135	11.329	24.194	-1.150	1.00	0.00
ATOM	2392	O5	LIG	135	12.239	22.217	0.136	1.00	0.00
ATOM	2393	O6	LIG	135	10.427	23.439	-7.930	1.00	0.00
ATOM	2394	O7	LIG	135	12.497	23.257	-9.371	1.00	0.00
ATOM	2395	O8	LIG	135	18.867	19.361	4.151	1.00	0.00
ATOM	2396	O9	LIG	135	18.726	21.343	5.024	1.00	0.00
ATOM	2397	N1	LIG	135	15.986	20.599	-3.503	1.00	0.00
ATOM	2398	H3	LIG	135	16.280	20.112	-4.334	1.00	0.00
ATOM	2399	H4	LIG	135	16.461	20.471	-2.623	1.00	0.00

ATOM	2400	N2	LIG	135	15.260	21.597	-1.212	1.00	0.00
ATOM	2401	N3	LIG	135	14.141	20.509	-8.207	1.00	0.00
ATOM	2402	N4	LIG	135	15.244	22.265	-0.137	1.00	0.00
ATOM	2403	N5	LIG	135	13.450	20.342	-9.248	1.00	0.00
ATOM	2404	N6	LIG	135	18.471	20.521	4.155	1.00	0.00
ATOM	2405	C1	LIG	135	14.085	21.541	-4.699	1.00	0.00
ATOM	2406	C2	LIG	135	12.931	22.372	-4.637	1.00	0.00
ATOM	2407	C3	LIG	135	14.854	21.324	-3.494	1.00	0.00
ATOM	2408	C4	LIG	135	13.241	22.724	-2.258	1.00	0.00
ATOM	2409	C5	LIG	135	12.527	22.941	-3.403	1.00	0.00
ATOM	2410	H1	LIG	135	11.625	23.537	-3.362	1.00	0.00
ATOM	2411	C6	LIG	135	14.404	20.968	-5.957	1.00	0.00
ATOM	2412	C7	LIG	135	12.505	22.076	-7.012	1.00	0.00
ATOM	2413	C8	LIG	135	12.176	22.634	-5.806	1.00	0.00
ATOM	2414	H2	LIG	135	11.325	23.300	-5.748	1.00	0.00
ATOM	2415	C9	LIG	135	14.431	21.925	-2.262	1.00	0.00
ATOM	2416	C10	LIG	135	13.627	21.199	-7.116	1.00	0.00
ATOM	2417	C11	LIG	135	16.059	21.773	0.901	1.00	0.00
ATOM	2418	C12	LIG	135	14.072	19.683	-10.325	1.00	0.00
ATOM	2419	C13	LIG	135	16.532	20.451	0.955	1.00	0.00
ATOM	2420	H8	LIG	135	16.254	19.753	0.178	1.00	0.00
ATOM	2421	C14	LIG	135	16.356	22.668	1.939	1.00	0.00

ATOM	2422	H9	LIG	135	15.966	23.677	1.902	1.00	0.00
ATOM	2423	C15	LIG	135	17.321	20.043	2.017	1.00	0.00
ATOM	2424	H10	LIG	135	17.692	19.030	2.089	1.00	0.00
ATOM	2425	C16	LIG	135	17.152	22.266	3.002	1.00	0.00
ATOM	2426	H11	LIG	135	17.403	22.942	3.807	1.00	0.00
ATOM	2427	C17	LIG	135	17.628	20.958	3.023	1.00	0.00
ATOM	2428	C18	LIG	135	15.459	19.488	-10.432	1.00	0.00
ATOM	2429	H12	LIG	135	16.117	19.883	-9.670	1.00	0.00
ATOM	2430	C19	LIG	135	13.220	19.233	-11.344	1.00	0.00
ATOM	2431	H13	LIG	135	12.154	19.412	-11.263	1.00	0.00
ATOM	2432	C20	LIG	135	15.973	18.824	-11.535	1.00	0.00
ATOM	2433	H14	LIG	135	17.044	18.681	-11.627	1.00	0.00
ATOM	2434	C21	LIG	135	13.744	18.559	-12.441	1.00	0.00
ATOM	2435	H15	LIG	135	13.083	18.205	-13.221	1.00	0.00
ATOM	2436	C22	LIG	135	15.120	18.351	-12.538	1.00	0.00
ATOM	2437	H16	LIG	135	15.531	17.836	-13.398	1.00	0.00
TER									
ATOM	2438	S1	LIG	136	-4.733	-16.007	22.630	1.00	0.00
ATOM	2439	S2	LIG	136	-7.005	-15.755	30.051	1.00	0.00
ATOM	2440	O1	LIG	136	-4.961	-11.477	27.843	1.00	0.00
ATOM	2441	H5	LIG	136	-5.226	-11.216	28.750	1.00	0.00
ATOM	2442	O2	LIG	136	-3.178	-16.152	22.259	1.00	0.00

ATOM	2443	H6	LIG	136	-2.887	-15.204	22.097	1.00	0.00
ATOM	2444	O3	LIG	136	-8.364	-14.989	30.436	1.00	0.00
ATOM	2445	H7	LIG	136	-8.056	-14.080	30.721	1.00	0.00
ATOM	2446	O4	LIG	136	-5.199	-17.326	23.003	1.00	0.00
ATOM	2447	O5	LIG	136	-5.418	-15.231	21.606	1.00	0.00
ATOM	2448	O6	LIG	136	-7.387	-17.048	29.521	1.00	0.00
ATOM	2449	O7	LIG	136	-6.050	-15.641	31.143	1.00	0.00
ATOM	2450	O8	LIG	136	-1.147	-9.142	18.016	1.00	0.00
ATOM	2451	O9	LIG	136	0.019	-10.852	17.362	1.00	0.00
ATOM	2452	N1	LIG	136	-3.900	-11.613	25.414	1.00	0.00
ATOM	2453	H3	LIG	136	-4.073	-11.021	26.211	1.00	0.00
ATOM	2454	H4	LIG	136	-3.460	-11.255	24.580	1.00	0.00
ATOM	2455	N2	LIG	136	-3.558	-12.913	23.186	1.00	0.00
ATOM	2456	N3	LIG	136	-6.144	-12.487	29.856	1.00	0.00
ATOM	2457	N4	LIG	136	-3.022	-13.494	22.198	1.00	0.00
ATOM	2458	N5	LIG	136	-6.953	-12.728	30.794	1.00	0.00
ATOM	2459	N6	LIG	136	-0.793	-10.312	18.101	1.00	0.00
ATOM	2460	C1	LIG	136	-5.061	-13.457	26.501	1.00	0.00
ATOM	2461	C2	LIG	136	-5.497	-14.809	26.412	1.00	0.00
ATOM	2462	C3	LIG	136	-4.388	-12.864	25.367	1.00	0.00
ATOM	2463	C4	LIG	136	-4.684	-14.981	24.133	1.00	0.00
ATOM	2464	C5	LIG	136	-5.304	-15.542	25.214	1.00	0.00

ATOM	2465	H1	LIG	136	-5.677	-16.557	25.146	1.00	0.00
ATOM	2466	C6	LIG	136	-5.327	-12.769	27.713	1.00	0.00
ATOM	2467	C7	LIG	136	-6.369	-14.751	28.680	1.00	0.00
ATOM	2468	C8	LIG	136	-6.128	-15.431	27.517	1.00	0.00
ATOM	2469	H2	LIG	136	-6.416	-16.472	27.445	1.00	0.00
ATOM	2470	C9	LIG	136	-4.192	-13.635	24.173	1.00	0.00
ATOM	2471	C10	LIG	136	-5.992	-13.379	28.803	1.00	0.00
ATOM	2472	C11	LIG	136	-2.496	-12.648	21.202	1.00	0.00
ATOM	2473	C12	LIG	136	-6.999	-11.798	31.849	1.00	0.00
ATOM	2474	C13	LIG	136	-2.872	-11.302	21.050	1.00	0.00
ATOM	2475	H8	LIG	136	-3.617	-10.879	21.710	1.00	0.00
ATOM	2476	C14	LIG	136	-1.583	-13.226	20.309	1.00	0.00
ATOM	2477	H9	LIG	136	-1.318	-14.270	20.419	1.00	0.00
ATOM	2478	C15	LIG	136	-2.315	-10.539	20.038	1.00	0.00
ATOM	2479	H10	LIG	136	-2.593	-9.505	19.892	1.00	0.00
ATOM	2480	C16	LIG	136	-1.016	-12.464	19.298	1.00	0.00
ATOM	2481	H11	LIG	136	-0.302	-12.886	18.605	1.00	0.00
ATOM	2482	C17	LIG	136	-1.387	-11.128	19.180	1.00	0.00
ATOM	2483	C18	LIG	136	-6.015	-10.821	32.080	1.00	0.00
ATOM	2484	H12	LIG	136	-5.144	-10.775	31.440	1.00	0.00
ATOM	2485	C19	LIG	136	-8.096	-11.906	32.715	1.00	0.00
ATOM	2486	H13	LIG	136	-8.835	-12.679	32.543	1.00	0.00

ATOM	2487	C20	LIG	136	-6.154	-9.950	33.149	1.00	0.00
ATOM	2488	H14	LIG	136	-5.392	-9.202	33.336	1.00	0.00
ATOM	2489	C21	LIG	136	-8.232	-11.020	33.778	1.00	0.00
ATOM	2490	H15	LIG	136	-9.085	-11.100	34.440	1.00	0.00
ATOM	2491	C22	LIG	136	-7.264	-10.040	33.996	1.00	0.00
ATOM	2492	H16	LIG	136	-7.362	-9.357	34.831	1.00	0.00
TER									
ATOM	2493	S1	LIG	137	30.663	-5.395	-12.685	1.00	0.00
ATOM	2494	S2	LIG	137	32.034	-0.452	-18.515	1.00	0.00
ATOM	2495	O1	LIG	137	31.636	1.380	-13.632	1.00	0.00
ATOM	2496	H5	LIG	137	31.862	2.150	-14.196	1.00	0.00
ATOM	2497	O2	LIG	137	29.190	-5.531	-12.063	1.00	0.00
ATOM	2498	H6	LIG	137	29.218	-4.924	-11.263	1.00	0.00
ATOM	2499	O3	LIG	137	33.507	0.165	-18.698	1.00	0.00
ATOM	2500	H7	LIG	137	33.455	1.053	-18.240	1.00	0.00
ATOM	2501	O4	LIG	137	30.667	-6.148	-13.923	1.00	0.00
ATOM	2502	O5	LIG	137	31.663	-5.641	-11.656	1.00	0.00
ATOM	2503	O6	LIG	137	32.070	-1.793	-19.062	1.00	0.00
ATOM	2504	O7	LIG	137	31.039	0.515	-18.953	1.00	0.00
ATOM	2505	O8	LIG	137	29.857	-3.145	-3.993	1.00	0.00
ATOM	2506	O9	LIG	137	28.317	-4.649	-4.269	1.00	0.00
ATOM	2507	N1	LIG	137	30.872	-0.231	-11.667	1.00	0.00



ATOM	2508	H3	LIG	137	31.120	0.713	-11.915	1.00	0.00
ATOM	2509	H4	LIG	137	30.658	-0.484	-10.714	1.00	0.00
ATOM	2510	N2	LIG	137	30.415	-2.638	-10.790	1.00	0.00
ATOM	2511	N3	LIG	137	32.222	1.870	-16.060	1.00	0.00
ATOM	2512	N4	LIG	137	29.846	-3.653	-10.292	1.00	0.00
ATOM	2513	N5	LIG	137	32.808	2.225	-17.119	1.00	0.00
ATOM	2514	N6	LIG	137	29.162	-3.872	-4.692	1.00	0.00
ATOM	2515	C1	LIG	137	31.292	-0.968	-13.949	1.00	0.00
ATOM	2516	C2	LIG	137	31.310	-2.057	-14.866	1.00	0.00
ATOM	2517	C3	LIG	137	30.963	-1.226	-12.566	1.00	0.00
ATOM	2518	C4	LIG	137	30.751	-3.625	-13.103	1.00	0.00
ATOM	2519	C5	LIG	137	31.046	-3.374	-14.414	1.00	0.00
ATOM	2520	H1	LIG	137	31.102	-4.197	-15.114	1.00	0.00
ATOM	2521	C6	LIG	137	31.611	0.316	-14.462	1.00	0.00
ATOM	2522	C7	LIG	137	31.892	-0.584	-16.711	1.00	0.00
ATOM	2523	C8	LIG	137	31.593	-1.833	-16.235	1.00	0.00
ATOM	2524	H2	LIG	137	31.563	-2.666	-16.926	1.00	0.00
ATOM	2525	C9	LIG	137	30.684	-2.567	-12.139	1.00	0.00
ATOM	2526	C10	LIG	137	31.932	0.533	-15.823	1.00	0.00
ATOM	2527	C11	LIG	137	29.716	-3.657	-8.890	1.00	0.00
ATOM	2528	C12	LIG	137	33.008	3.607	-17.302	1.00	0.00
ATOM	2529	C13	LIG	137	30.494	-2.854	-8.038	1.00	0.00

ATOM	2530	H8	LIG	137	31.250	-2.206	-8.459	1.00	0.00
ATOM	2531	C14	LIG	137	28.782	-4.552	-8.351	1.00	0.00
ATOM	2532	H9	LIG	137	28.205	-5.184	-9.014	1.00	0.00
ATOM	2533	C15	LIG	137	30.312	-2.924	-6.667	1.00	0.00
ATOM	2534	H10	LIG	137	30.902	-2.325	-5.987	1.00	0.00
ATOM	2535	C16	LIG	137	28.590	-4.621	-6.979	1.00	0.00
ATOM	2536	H11	LIG	137	27.867	-5.295	-6.542	1.00	0.00
ATOM	2537	C17	LIG	137	29.356	-3.800	-6.156	1.00	0.00
ATOM	2538	C18	LIG	137	32.343	4.602	-16.566	1.00	0.00
ATOM	2539	H12	LIG	137	31.605	4.321	-15.826	1.00	0.00
ATOM	2540	C19	LIG	137	33.915	3.967	-18.309	1.00	0.00
ATOM	2541	H13	LIG	137	34.403	3.192	-18.887	1.00	0.00
ATOM	2542	C20	LIG	137	32.613	5.937	-16.823	1.00	0.00
ATOM	2543	H14	LIG	137	32.094	6.708	-16.265	1.00	0.00
ATOM	2544	C21	LIG	137	34.187	5.308	-18.551	1.00	0.00
ATOM	2545	H15	LIG	137	34.894	5.583	-19.323	1.00	0.00
ATOM	2546	C22	LIG	137	33.539	6.295	-17.809	1.00	0.00
ATOM	2547	H16	LIG	137	33.740	7.342	-18.006	1.00	0.00
TER									
END									

**Table C:** The number of atoms present in the system of AH-SIs

ATOM	1	N	GLY	1	23.437	-11.685	-2.766	1.00	0.00
ATOM	2	H1	GLY	1	22.736	-10.970	-2.890	1.00	0.00
ATOM	3	H2	GLY	1	23.052	-12.572	-3.058	1.00	0.00
ATOM	4	H3	GLY	1	24.308	-11.359	-3.161	1.00	0.00
ATOM	5	CA	GLY	1	23.697	-11.830	-1.306	1.00	0.00
ATOM	6	HA2	GLY	1	23.465	-12.846	-0.985	1.00	0.00
ATOM	7	HA3	GLY	1	24.743	-11.612	-1.090	1.00	0.00
ATOM	8	C	GLY	1	22.813	-10.849	-0.532	1.00	0.00
ATOM	9	O	GLY	1	23.284	-9.860	-0.005	1.00	0.00
ATOM	10	N	PRO	2	21.506	-11.134	-0.466	1.00	0.00
ATOM	11	CD	PRO	2	20.863	-12.310	-1.078	1.00	0.00
ATOM	12	HD2	PRO	2	21.424	-13.208	-0.817	1.00	0.00
ATOM	13	HD3	PRO	2	20.849	-12.194	-2.162	1.00	0.00
ATOM	14	CG	PRO	2	19.484	-12.297	-0.483	1.00	0.00
ATOM	15	HG2	PRO	2	19.468	-12.931	0.404	1.00	0.00
ATOM	16	HG3	PRO	2	18.772	-12.679	-1.214	1.00	0.00
ATOM	17	CB	PRO	2	19.188	-10.876	-0.143	1.00	0.00
ATOM	18	HB2	PRO	2	18.519	-10.862	0.717	1.00	0.00
ATOM	19	HB3	PRO	2	18.747	-10.299	-0.956	1.00	0.00
ATOM	20	CA	PRO	2	20.542	-10.282	0.243	1.00	0.00
ATOM	21	HA	PRO	2	20.681	-9.255	-0.093	1.00	0.00
ATOM	22	C	PRO	2	20.731	-10.352	1.761	1.00	0.00

ATOM	23	O	PRO	2	20.286	-9.489	2.492	1.00	0.00
ATOM	24	N	MET	3	21.387	-11.373	2.240	1.00	0.00
ATOM	25	H	MET	3	21.760	-12.095	1.639	1.00	0.00
ATOM	26	CA	MET	3	21.602	-11.496	3.710	1.00	0.00
ATOM	27	HA	MET	3	20.646	-11.584	4.226	1.00	0.00
ATOM	28	CB	MET	3	22.431	-12.749	4.000	1.00	0.00
ATOM	29	HB2	MET	3	23.364	-12.707	3.437	1.00	0.00
ATOM	30	HB3	MET	3	22.653	-12.801	5.066	1.00	0.00
ATOM	31	CG	MET	3	21.640	-13.991	3.583	1.00	0.00
ATOM	32	HG2	MET	3	21.453	-13.966	2.509	1.00	0.00
ATOM	33	HG3	MET	3	22.206	-14.889	3.832	1.00	0.00
ATOM	34	SD	MET	3	20.058	-14.022	4.462	1.00	0.00
ATOM	35	CE	MET	3	20.732	-14.100	6.140	1.00	0.00
ATOM	36	HE1	MET	3	21.349	-13.221	6.326	1.00	0.00
ATOM	37	HE2	MET	3	19.914	-14.128	6.860	1.00	0.00
ATOM	38	HE3	MET	3	21.340	-14.999	6.247	1.00	0.00
ATOM	39	C	MET	3	22.346	-10.261	4.221	1.00	0.00
ATOM	40	O	MET	3	22.100	-9.783	5.311	1.00	0.00
ATOM	41	N	ARG	4	23.256	-9.740	3.443	1.00	0.00
ATOM	42	H	ARG	4	23.468	-10.133	2.537	1.00	0.00
ATOM	43	CA	ARG	4	24.013	-8.536	3.885	1.00	0.00
ATOM	44	HA	ARG	4	24.597	-8.764	4.777	1.00	0.00

ATOM	45	CB	ARG	4	24.968	-8.096	2.774	1.00	0.00
ATOM	46	HB2	ARG	4	24.405	-7.929	1.856	1.00	0.00
ATOM	47	HB3	ARG	4	25.466	-7.172	3.068	1.00	0.00
ATOM	48	CG	ARG	4	26.015	-9.186	2.538	1.00	0.00
ATOM	49	HG2	ARG	4	26.520	-9.415	3.476	1.00	0.00
ATOM	50	HG3	ARG	4	25.527	-10.085	2.161	1.00	0.00
ATOM	51	CD	ARG	4	27.040	-8.695	1.514	1.00	0.00
ATOM	52	HD2	ARG	4	27.562	-7.817	1.894	1.00	0.00
ATOM	53	HD3	ARG	4	27.763	-9.482	1.297	1.00	0.00
ATOM	54	NE	ARG	4	26.343	-8.326	0.251	1.00	0.00
ATOM	55	HE	ARG	4	25.996	-9.031	-0.384	1.00	0.00
ATOM	56	CZ	ARG	4	26.169	-7.069	-0.057	1.00	0.00
ATOM	57	NH1	ARG	4	27.168	-6.233	0.027	1.00	0.00
ATOM	58	HH11	ARG	4	28.074	-6.562	0.330	1.00	0.00
ATOM	59	HH12	ARG	4	27.031	-5.262	-0.212	1.00	0.00
ATOM	60	NH2	ARG	4	24.998	-6.648	-0.448	1.00	0.00
ATOM	61	HH21	ARG	4	24.227	-7.298	-0.512	1.00	0.00
ATOM	62	HH22	ARG	4	24.868	-5.675	-0.685	1.00	0.00
ATOM	63	C	ARG	4	23.034	-7.402	4.193	1.00	0.00
ATOM	64	O	ARG	4	23.229	-6.632	5.112	1.00	0.00
ATOM	65	N	ARG	5	21.980	-7.293	3.430	1.00	0.00
ATOM	66	H	ARG	5	21.812	-7.929	2.663	1.00	0.00

ATOM	67	CA	ARG	5	20.989	-6.209	3.680	1.00	0.00
ATOM	68	HA	ARG	5	21.461	-5.233	3.573	1.00	0.00
ATOM	69	CB	ARG	5	19.850	-6.316	2.663	1.00	0.00
ATOM	70	HB2	ARG	5	19.398	-7.306	2.726	1.00	0.00
ATOM	71	HB3	ARG	5	19.097	-5.558	2.879	1.00	0.00
ATOM	72	CG	ARG	5	20.403	-6.098	1.253	1.00	0.00
ATOM	73	HG2	ARG	5	20.915	-5.137	1.207	1.00	0.00
ATOM	74	HG3	ARG	5	21.106	-6.896	1.010	1.00	0.00
ATOM	75	CD	ARG	5	19.251	-6.110	0.247	1.00	0.00
ATOM	76	HD2	ARG	5	18.653	-7.013	0.369	1.00	0.00
ATOM	77	HD3	ARG	5	18.619	-5.234	0.387	1.00	0.00
ATOM	78	NE	ARG	5	19.801	-6.086	-1.138	1.00	0.00
ATOM	79	HE	ARG	5	20.328	-5.297	-1.483	1.00	0.00
ATOM	80	CZ	ARG	5	19.606	-7.101	-1.935	1.00	0.00
ATOM	81	NH1	ARG	5	18.405	-7.588	-2.091	1.00	0.00
ATOM	82	HH11	ARG	5	17.628	-7.177	-1.593	1.00	0.00
ATOM	83	HH12	ARG	5	18.258	-8.374	-2.709	1.00	0.00
ATOM	84	NH2	ARG	5	20.612	-7.629	-2.576	1.00	0.00
ATOM	85	HH21	ARG	5	21.540	-7.250	-2.453	1.00	0.00
ATOM	86	HH22	ARG	5	20.458	-8.415	-3.192	1.00	0.00
ATOM	87	C	ARG	5	20.425	-6.347	5.095	1.00	0.00
ATOM	88	O	ARG	5	20.073	-5.373	5.730	1.00	0.00

ATOM	89	N	GLU	6	20.335	-7.550	5.593	1.00	0.00
ATOM	90	H	GLU	6	20.625	-8.365	5.070	1.00	0.00
ATOM	91	CA	GLU	6	19.793	-7.748	6.967	1.00	0.00
ATOM	92	HA	GLU	6	18.769	-7.380	7.026	1.00	0.00
ATOM	93	CB	GLU	6	19.797	-9.240	7.308	1.00	0.00
ATOM	94	HB2	GLU	6	20.808	-9.635	7.203	1.00	0.00
ATOM	95	HB3	GLU	6	19.458	-9.380	8.335	1.00	0.00
ATOM	96	CG	GLU	6	18.858	-9.983	6.356	1.00	0.00
ATOM	97	HG2	GLU	6	17.853	-9.570	6.437	1.00	0.00
ATOM	98	HG3	GLU	6	19.215	-9.870	5.332	1.00	0.00
ATOM	99	CD	GLU	6	18.830	-11.467	6.724	1.00	0.00
ATOM	100	OE1	GLU	6	19.628	-11.868	7.555	1.00	0.00
ATOM	101	OE2	GLU	6	18.008	-12.179	6.169	1.00	0.00
ATOM	102	C	GLU	6	20.665	-6.992	7.972	1.00	0.00
ATOM	103	O	GLU	6	20.190	-6.515	8.984	1.00	0.00
ATOM	104	N	ARG	7	21.936	-6.878	7.702	1.00	0.00
ATOM	105	H	ARG	7	22.338	-7.273	6.863	1.00	0.00
ATOM	106	CA	ARG	7	22.835	-6.152	8.642	1.00	0.00
ATOM	107	HA	ARG	7	22.937	-6.709	9.573	1.00	0.00
ATOM	108	CB	ARG	7	24.220	-5.999	8.010	1.00	0.00
ATOM	109	HB2	ARG	7	24.591	-6.978	7.706	1.00	0.00
ATOM	110	HB3	ARG	7	24.152	-5.350	7.137	1.00	0.00

ATOM	111	CG	ARG	7	25.181	-5.384	9.029	1.00	0.00
ATOM	112	HG2	ARG	7	24.793	-4.421	9.360	1.00	0.00
ATOM	113	HG3	ARG	7	25.278	-6.051	9.886	1.00	0.00
ATOM	114	CD	ARG	7	26.553	-5.185	8.381	1.00	0.00
ATOM	115	HD2	ARG	7	26.915	-6.126	7.966	1.00	0.00
ATOM	116	HD3	ARG	7	26.492	-4.439	7.589	1.00	0.00
ATOM	117	NE	ARG	7	27.523	-4.712	9.409	1.00	0.00
ATOM	118	HE	ARG	7	27.951	-5.351	10.065	1.00	0.00
ATOM	119	CZ	ARG	7	27.837	-3.447	9.476	1.00	0.00
ATOM	120	NH1	ARG	7	27.246	-2.674	10.345	1.00	0.00
ATOM	121	HH11	ARG	7	26.547	-3.058	10.964	1.00	0.00
ATOM	122	HH12	ARG	7	27.491	-1.696	10.395	1.00	0.00
ATOM	123	NH2	ARG	7	28.742	-2.956	8.674	1.00	0.00
ATOM	124	HH21	ARG	7	29.198	-3.558	8.003	1.00	0.00
ATOM	125	HH22	ARG	7	28.983	-1.977	8.728	1.00	0.00
ATOM	126	C	ARG	7	22.254	-4.768	8.937	1.00	0.00
ATOM	127	O	ARG	7	22.275	-4.299	10.058	1.00	0.00
ATOM	128	N	GLY	8	21.733	-4.109	7.938	1.00	0.00
ATOM	129	H	GLY	8	21.711	-4.492	7.004	1.00	0.00
ATOM	130	CA	GLY	8	21.151	-2.755	8.161	1.00	0.00
ATOM	131	HA2	GLY	8	21.927	-2.067	8.495	1.00	0.00
ATOM	132	HA3	GLY	8	20.709	-2.383	7.237	1.00	0.00



ATOM	133	C	GLY	8	20.064	-2.839	9.234	1.00	0.00
ATOM	134	O	GLY	8	19.850	-1.910	9.987	1.00	0.00
ATOM	135	N	ARG	9	19.373	-3.944	9.309	1.00	0.00
ATOM	136	H	ARG	9	19.543	-4.720	8.685	1.00	0.00
ATOM	137	CA	ARG	9	18.301	-4.084	10.335	1.00	0.00
ATOM	138	HA	ARG	9	17.501	-3.369	10.146	1.00	0.00
ATOM	139	CB	ARG	9	17.719	-5.497	10.274	1.00	0.00
ATOM	140	HB2	ARG	9	17.356	-5.699	9.266	1.00	0.00
ATOM	141	HB3	ARG	9	18.492	-6.221	10.532	1.00	0.00
ATOM	142	CG	ARG	9	16.560	-5.613	11.267	1.00	0.00
ATOM	143	HG2	ARG	9	16.915	-5.375	12.270	1.00	0.00
ATOM	144	HG3	ARG	9	15.770	-4.917	10.986	1.00	0.00
ATOM	145	CD	ARG	9	16.012	-7.042	11.247	1.00	0.00
ATOM	146	HD2	ARG	9	15.729	-7.324	10.233	1.00	0.00
ATOM	147	HD3	ARG	9	16.762	-7.740	11.621	1.00	0.00
ATOM	148	NE	ARG	9	14.807	-7.124	12.120	1.00	0.00
ATOM	149	HE	ARG	9	13.954	-6.636	11.890	1.00	0.00
ATOM	150	CZ	ARG	9	14.840	-7.840	13.210	1.00	0.00
ATOM	151	NH1	ARG	9	15.314	-9.055	13.180	1.00	0.00
ATOM	152	HH11	ARG	9	15.655	-9.440	12.310	1.00	0.00
ATOM	153	HH12	ARG	9	15.338	-9.606	14.026	1.00	0.00
ATOM	154	NH2	ARG	9	14.399	-7.339	14.332	1.00	0.00

ATOM	155	HH21	ARG	9	14.034	-6.398	14.352	1.00	0.00
ATOM	156	HH22	ARG	9	14.426	-7.895	15.175	1.00	0.00
ATOM	157	C	ARG	9	18.891	-3.833	11.724	1.00	0.00
ATOM	158	O	ARG	9	18.242	-3.288	12.595	1.00	0.00
ATOM	159	N	GLN	10	20.117	-4.228	11.939	1.00	0.00
ATOM	160	H	GLN	10	20.663	-4.682	11.220	1.00	0.00
ATOM	161	CA	GLN	10	20.746	-4.012	13.272	1.00	0.00
ATOM	162	HA	GLN	10	20.231	-4.598	14.034	1.00	0.00
ATOM	163	CB	GLN	10	22.209	-4.456	13.221	1.00	0.00
ATOM	164	HB2	GLN	10	22.716	-3.946	12.402	1.00	0.00
ATOM	165	HB3	GLN	10	22.699	-4.206	14.162	1.00	0.00
ATOM	166	CG	GLN	10	22.276	-5.969	12.999	1.00	0.00
ATOM	167	HG2	GLN	10	21.696	-6.489	13.762	1.00	0.00
ATOM	168	HG3	GLN	10	21.889	-6.225	12.012	1.00	0.00
ATOM	169	CD	GLN	10	23.730	-6.434	13.089	1.00	0.00
ATOM	170	OE1	GLN	10	24.391	-6.686	11.992	1.00	0.00
ATOM	171	NE2	GLN	10	24.271	-6.570	14.168	1.00	0.00
ATOM	172	HE21	GLN	10	25.232	-6.878	14.212	1.00	0.00
ATOM	173	HE22	GLN	10	23.757	-6.375	15.015	1.00	0.00
ATOM	174	C	GLN	10	20.676	-2.527	13.634	1.00	0.00
ATOM	175	O	GLN	10	20.518	-2.166	14.783	1.00	0.00
ATOM	176	N	GLY	11	20.793	-1.664	12.663	1.00	0.00

ATOM	177	H	GLY	11	20.925	-1.958	11.706	1.00	0.00
ATOM	178	CA	GLY	11	20.734	-0.203	12.952	1.00	0.00
ATOM	179	HA2	GLY	11	21.604	0.096	13.537	1.00	0.00
ATOM	180	HA3	GLY	11	20.712	0.360	12.019	1.00	0.00
ATOM	181	C	GLY	11	19.466	0.107	13.751	1.00	0.00
ATOM	182	O	GLY	11	19.459	0.962	14.613	1.00	0.00
ATOM	183	N	ASP	12	18.394	-0.582	13.470	1.00	0.00
ATOM	184	H	ASP	12	18.392	-1.294	12.753	1.00	0.00
ATOM	185	CA	ASP	12	17.129	-0.325	14.215	1.00	0.00
ATOM	186	HA	ASP	12	16.319	-0.928	13.803	1.00	0.00
ATOM	187	CB	ASP	12	17.317	-0.699	15.686	1.00	0.00
ATOM	188	HB2	ASP	12	18.170	-0.156	16.094	1.00	0.00
ATOM	189	HB3	ASP	12	16.419	-0.438	16.245	1.00	0.00
ATOM	190	CG	ASP	12	17.569	-2.204	15.801	1.00	0.00
ATOM	191	OD1	ASP	12	17.331	-2.900	14.828	1.00	0.00
ATOM	192	OD2	ASP	12	17.996	-2.634	16.860	1.00	0.00
ATOM	193	C	ASP	12	16.765	1.157	14.108	1.00	0.00
ATOM	194	O	ASP	12	16.447	1.800	15.088	1.00	0.00
ATOM	195	N	SER	13	16.810	1.705	12.924	1.00	0.00
ATOM	196	H	SER	13	17.074	1.177	12.104	1.00	0.00
ATOM	197	CA	SER	13	16.466	3.145	12.757	1.00	0.00
ATOM	198	HA	SER	13	17.179	3.769	13.296	1.00	0.00

ATOM	199	CB	SER	13	16.519	3.513	11.273	1.00	0.00
ATOM	200	HB2	SER	13	15.757	2.952	10.731	1.00	0.00
ATOM	201	HB3	SER	13	16.336	4.581	11.156	1.00	0.00
ATOM	202	OG	SER	13	17.801	3.193	10.752	1.00	0.00
ATOM	203	HG	SER	13	17.835	3.423	9.821	1.00	0.00
ATOM	204	C	SER	13	15.056	3.396	13.295	1.00	0.00
ATOM	205	O	SER	13	14.783	4.417	13.895	1.00	0.00
ATOM	206	N	SER	14	14.159	2.472	13.085	1.00	0.00
ATOM	207	H	SER	14	14.381	1.620	12.588	1.00	0.00
ATOM	208	CA	SER	14	12.766	2.657	13.585	1.00	0.00
ATOM	209	HA	SER	14	12.769	3.239	14.506	1.00	0.00
ATOM	210	CB	SER	14	11.943	3.406	12.535	1.00	0.00
ATOM	211	HB2	SER	14	12.360	4.402	12.389	1.00	0.00
ATOM	212	HB3	SER	14	11.971	2.859	11.592	1.00	0.00
ATOM	213	OG	SER	14	10.598	3.516	12.979	1.00	0.00
ATOM	214	HG	SER	14	10.081	3.985	12.320	1.00	0.00
ATOM	215	C	SER	14	12.136	1.287	13.845	1.00	0.00
ATOM	216	O	SER	14	12.225	0.387	13.035	1.00	0.00
ATOM	217	N	SER	15	11.500	1.122	14.974	1.00	0.00
ATOM	218	H	SER	15	11.423	1.864	15.655	1.00	0.00
ATOM	219	CA	SER	15	10.867	-0.190	15.285	1.00	0.00
ATOM	220	HA	SER	15	11.551	-1.006	15.050	1.00	0.00

ATOM	221	CB	SER	15	10.527	-0.251	16.776	1.00	0.00
ATOM	222	HB2	SER	15	10.190	-1.256	17.032	1.00	0.00
ATOM	223	HB3	SER	15	11.413	-0.006	17.362	1.00	0.00
ATOM	224	OG	SER	15	9.496	0.682	17.064	1.00	0.00
ATOM	225	HG	SER	15	9.283	0.644	17.999	1.00	0.00
ATOM	226	C	SER	15	9.587	-0.351	14.462	1.00	0.00
ATOM	227	O	SER	15	9.167	-1.450	14.160	1.00	0.00
ATOM	228	N	CYX	16	8.964	0.737	14.095	1.00	0.00
ATOM	229	H	CYX	16	9.306	1.654	14.342	1.00	0.00
ATOM	230	CA	CYX	16	7.714	0.642	13.289	1.00	0.00
ATOM	231	HA	CYX	16	6.953	0.086	13.837	1.00	0.00
ATOM	232	CB	CYX	16	7.182	2.047	13.002	1.00	0.00
ATOM	233	HB2	CYX	16	7.205	2.638	13.917	1.00	0.00
ATOM	234	HB3	CYX	16	7.805	2.524	12.246	1.00	0.00
ATOM	235	SG	CYX	16	5.459	1.941	12.455	1.00	0.00
ATOM	236	C	CYX	16	8.015	-0.069	11.968	1.00	0.00
ATOM	237	O	CYX	16	7.145	-0.655	11.355	1.00	0.00
ATOM	238	N	GLU	17	9.241	-0.022	11.525	1.00	0.00
ATOM	239	H	GLU	17	9.969	0.463	12.029	1.00	0.00
ATOM	240	CA	GLU	17	9.597	-0.695	10.245	1.00	0.00
ATOM	241	HA	GLU	17	8.997	-0.296	9.427	1.00	0.00
ATOM	242	CB	GLU	17	11.074	-0.447	9.934	1.00	0.00

ATOM	243	HB2	GLU	17	11.665	-0.580	10.841	1.00	0.00
ATOM	244	HB3	GLU	17	11.410	-1.154	9.175	1.00	0.00
ATOM	245	CG	GLU	17	11.252	0.982	9.414	1.00	0.00
ATOM	246	HG2	GLU	17	10.626	1.129	8.534	1.00	0.00
ATOM	247	HG3	GLU	17	10.961	1.690	10.189	1.00	0.00
ATOM	248	CD	GLU	17	12.718	1.209	9.040	1.00	0.00
ATOM	249	OE1	GLU	17	13.489	0.271	9.148	1.00	0.00
ATOM	250	OE2	GLU	17	13.044	2.319	8.652	1.00	0.00
ATOM	251	C	GLU	17	9.347	-2.199	10.374	1.00	0.00
ATOM	252	O	GLU	17	8.731	-2.810	9.523	1.00	0.00
ATOM	253	N	ARG	18	9.820	-2.801	11.431	1.00	0.00
ATOM	254	H	ARG	18	10.332	-2.300	12.143	1.00	0.00
ATOM	255	CA	ARG	18	9.609	-4.266	11.612	1.00	0.00
ATOM	256	HA	ARG	18	10.190	-4.825	10.878	1.00	0.00
ATOM	257	CB	ARG	18	10.065	-4.679	13.013	1.00	0.00
ATOM	258	HB2	ARG	18	11.120	-4.435	13.140	1.00	0.00
ATOM	259	HB3	ARG	18	9.477	-4.146	13.760	1.00	0.00
ATOM	260	CG	ARG	18	9.867	-6.186	13.189	1.00	0.00
ATOM	261	HG2	ARG	18	8.819	-6.437	13.028	1.00	0.00
ATOM	262	HG3	ARG	18	10.483	-6.721	12.466	1.00	0.00
ATOM	263	CD	ARG	18	10.276	-6.592	14.607	1.00	0.00
ATOM	264	HD2	ARG	18	10.347	-7.677	14.683	1.00	0.00

ATOM	265	HD3	ARG	18	11.237	-6.147	14.864	1.00	0.00
ATOM	266	NE	ARG	18	9.252	-6.111	15.577	1.00	0.00
ATOM	267	HE	ARG	18	8.494	-5.510	15.288	1.00	0.00
ATOM	268	CZ	ARG	18	9.324	-6.464	16.832	1.00	0.00
ATOM	269	NH1	ARG	18	9.824	-5.642	17.714	1.00	0.00
ATOM	270	HH11	ARG	18	10.155	-4.734	17.422	1.00	0.00
ATOM	271	HH12	ARG	18	9.878	-5.919	18.684	1.00	0.00
ATOM	272	NH2	ARG	18	8.897	-7.640	17.203	1.00	0.00
ATOM	273	HH21	ARG	18	8.512	-8.274	16.517	1.00	0.00
ATOM	274	HH22	ARG	18	8.954	-7.912	18.174	1.00	0.00
ATOM	275	C	ARG	18	8.123	-4.591	11.444	1.00	0.00
ATOM	276	O	ARG	18	7.751	-5.717	11.177	1.00	0.00
ATOM	277	N	GLN	19	7.270	-3.616	11.601	1.00	0.00
ATOM	278	H	GLN	19	7.571	-2.679	11.825	1.00	0.00
ATOM	279	CA	GLN	19	5.811	-3.873	11.453	1.00	0.00
ATOM	280	HA	GLN	19	5.539	-4.805	11.949	1.00	0.00
ATOM	281	CB	GLN	19	5.024	-2.729	12.095	1.00	0.00
ATOM	282	HB2	GLN	19	5.421	-1.775	11.749	1.00	0.00
ATOM	283	HB3	GLN	19	3.974	-2.809	11.816	1.00	0.00
ATOM	284	CG	GLN	19	5.155	-2.813	13.617	1.00	0.00
ATOM	285	HG2	GLN	19	4.896	-3.814	13.963	1.00	0.00
ATOM	286	HG3	GLN	19	6.174	-2.576	13.923	1.00	0.00

ATOM	287	CD	GLN	19	4.203	-1.809	14.269	1.00	0.00
ATOM	288	OE1	GLN	19	3.724	-0.899	13.622	1.00	0.00
ATOM	289	NE2	GLN	19	3.906	-1.935	15.534	1.00	0.00
ATOM	290	HE21	GLN	19	3.278	-1.276	15.970	1.00	0.00
ATOM	291	HE22	GLN	19	4.306	-2.692	16.070	1.00	0.00
ATOM	292	C	GLN	19	5.455	-3.968	9.967	1.00	0.00
ATOM	293	O	GLN	19	4.424	-4.496	9.600	1.00	0.00
ATOM	294	N	VAL	20	6.299	-3.464	9.108	1.00	0.00
ATOM	295	H	VAL	20	7.158	-3.022	9.403	1.00	0.00
ATOM	296	CA	VAL	20	6.003	-3.530	7.649	1.00	0.00
ATOM	297	HA	VAL	20	4.965	-3.257	7.462	1.00	0.00
ATOM	298	CB	VAL	20	6.910	-2.553	6.896	1.00	0.00
ATOM	299	HB	VAL	20	6.918	-1.595	7.414	1.00	0.00
ATOM	300	CG1	VAL	20	8.333	-3.112	6.836	1.00	0.00
ATOM	301	HG11	VAL	20	8.326	-4.071	6.317	1.00	0.00
ATOM	302	HG12	VAL	20	8.976	-2.415	6.299	1.00	0.00
ATOM	303	HG13	VAL	20	8.713	-3.250	7.848	1.00	0.00
ATOM	304	CG2	VAL	20	6.380	-2.359	5.474	1.00	0.00
ATOM	305	HG21	VAL	20	5.368	-1.958	5.515	1.00	0.00
ATOM	306	HG22	VAL	20	7.025	-1.664	4.937	1.00	0.00
ATOM	307	HG23	VAL	20	6.369	-3.318	4.956	1.00	0.00
ATOM	308	C	VAL	20	6.252	-4.954	7.145	1.00	0.00



ATOM	309	O	VAL	20	5.597	-5.423	6.234	1.00	0.00
ATOM	310	N	ASP	21	7.192	-5.646	7.730	1.00	0.00
ATOM	311	H	ASP	21	7.741	-5.262	8.486	1.00	0.00
ATOM	312	CA	ASP	21	7.480	-7.038	7.285	1.00	0.00
ATOM	313	HA	ASP	21	7.893	-7.035	6.276	1.00	0.00
ATOM	314	CB	ASP	21	8.501	-7.674	8.228	1.00	0.00
ATOM	315	HB2	ASP	21	8.191	-7.517	9.261	1.00	0.00
ATOM	316	HB3	ASP	21	8.565	-8.744	8.027	1.00	0.00
ATOM	317	CG	ASP	21	9.872	-7.031	8.004	1.00	0.00
ATOM	318	OD1	ASP	21	9.991	-6.247	7.076	1.00	0.00
ATOM	319	OD2	ASP	21	10.777	-7.333	8.763	1.00	0.00
ATOM	320	C	ASP	21	6.188	-7.858	7.303	1.00	0.00
ATOM	321	O	ASP	21	6.006	-8.765	6.516	1.00	0.00
ATOM	322	N	ARG	22	5.290	-7.544	8.195	1.00	0.00
ATOM	323	H	ARG	22	5.435	-6.792	8.853	1.00	0.00
ATOM	324	CA	ARG	22	4.010	-8.305	8.262	1.00	0.00
ATOM	325	HA	ARG	22	4.197	-9.372	8.134	1.00	0.00
ATOM	326	CB	ARG	22	3.355	-8.083	9.628	1.00	0.00
ATOM	327	HB2	ARG	22	4.075	-8.302	10.417	1.00	0.00
ATOM	328	HB3	ARG	22	3.030	-7.047	9.711	1.00	0.00
ATOM	329	CG	ARG	22	2.147	-9.009	9.770	1.00	0.00
ATOM	330	HG2	ARG	22	1.473	-8.860	8.927	1.00	0.00

ATOM	331	HG3 ARG	22	2.483	-10.046	9.786	1.00	0.00
ATOM	332	CD ARG	22	1.411	-8.691	11.074	1.00	0.00
ATOM	333	HD2 ARG	22	2.109	-8.692	11.911	1.00	0.00
ATOM	334	HD3 ARG	22	0.927	-7.717	11.006	1.00	0.00
ATOM	335	NE ARG	22	0.368	-9.727	11.321	1.00	0.00
ATOM	336	HE ARG	22	0.243	-10.145	12.232	1.00	0.00
ATOM	337	CZ ARG	22	-0.409	-10.114	10.346	1.00	0.00
ATOM	338	NH1 ARG	22	-1.643	-9.691	10.288	1.00	0.00
ATOM	339	HH11 ARG	22	-1.993	-9.065	10.999	1.00	0.00
ATOM	340	HH12 ARG	22	-2.242	-9.993	9.532	1.00	0.00
ATOM	341	NH2 ARG	22	0.046	-10.924	9.430	1.00	0.00
ATOM	342	HH21 ARG	22	1.001	-11.251	9.478	1.00	0.00
ATOM	343	HH22 ARG	22	-0.558	-11.221	8.677	1.00	0.00
ATOM	344	C ARG	22	3.072	-7.818	7.159	1.00	0.00
ATOM	345	O ARG	22	2.118	-8.481	6.803	1.00	0.00
ATOM	346	N VAL	23	3.334	-6.662	6.613	1.00	0.00
ATOM	347	H VAL	23	4.125	-6.106	6.905	1.00	0.00
ATOM	348	CA VAL	23	2.458	-6.131	5.531	1.00	0.00
ATOM	349	HA VAL	23	1.536	-5.732	5.952	1.00	0.00
ATOM	350	CB VAL	23	3.186	-5.006	4.792	1.00	0.00
ATOM	351	HB VAL	23	4.193	-5.333	4.532	1.00	0.00
ATOM	352	CG1 VAL	23	2.419	-4.655	3.515	1.00	0.00

ATOM	353	HG11	VAL	23	1.412	-4.328	3.774	1.00	0.00
ATOM	354	HG12	VAL	23	2.937	-3.854	2.988	1.00	0.00
ATOM	355	HG13	VAL	23	2.361	-5.534	2.872	1.00	0.00
ATOM	356	CG2	VAL	23	3.268	-3.773	5.694	1.00	0.00
ATOM	357	HG21	VAL	23	3.815	-4.024	6.603	1.00	0.00
ATOM	358	HG22	VAL	23	3.787	-2.972	5.168	1.00	0.00
ATOM	359	HG23	VAL	23	2.262	-3.445	5.954	1.00	0.00
ATOM	360	C	VAL	23	2.124	-7.254	4.548	1.00	0.00
ATOM	361	O	VAL	23	1.086	-7.879	4.633	1.00	0.00
ATOM	362	N	ASN	24	2.997	-7.514	3.616	1.00	0.00
ATOM	363	H	ASN	24	3.862	-6.999	3.541	1.00	0.00
ATOM	364	CA	ASN	24	2.731	-8.595	2.627	1.00	0.00
ATOM	365	HA	ASN	24	3.501	-8.601	1.856	1.00	0.00
ATOM	366	CB	ASN	24	2.742	-9.949	3.339	1.00	0.00
ATOM	367	HB2	ASN	24	1.973	-9.977	4.110	1.00	0.00
ATOM	368	HB3	ASN	24	2.569	-10.754	2.624	1.00	0.00
ATOM	369	CG	ASN	24	4.105	-10.167	4.000	1.00	0.00
ATOM	370	OD1	ASN	24	5.073	-9.520	3.650	1.00	0.00
ATOM	371	ND2	ASN	24	4.223	-11.057	4.947	1.00	0.00
ATOM	372	HD21	ASN	24	5.120	-11.206	5.387	1.00	0.00
ATOM	373	HD22	ASN	24	3.417	-11.593	5.235	1.00	0.00
ATOM	374	C	ASN	24	1.362	-8.367	1.981	1.00	0.00

ATOM	375	O	ASN	24	0.400	-9.041	2.289	1.00	0.00
ATOM	376	N	LEU	25	1.268	-7.422	1.087	1.00	0.00
ATOM	377	H	LEU	25	2.065	-6.860	0.825	1.00	0.00
ATOM	378	CA	LEU	25	-0.038	-7.151	0.422	1.00	0.00
ATOM	379	HA	LEU	25	-0.833	-7.722	0.902	1.00	0.00
ATOM	380	CB	LEU	25	-0.368	-5.661	0.537	1.00	0.00
ATOM	381	HB2	LEU	25	0.524	-5.074	0.319	1.00	0.00
ATOM	382	HB3	LEU	25	-1.153	-5.407	-0.175	1.00	0.00
ATOM	383	CG	LEU	25	-0.848	-5.352	1.957	1.00	0.00
ATOM	384	HG	LEU	25	-0.208	-5.864	2.676	1.00	0.00
ATOM	385	CD1	LEU	25	-0.785	-3.844	2.201	1.00	0.00
ATOM	386	HD11	LEU	25	-1.425	-3.333	1.482	1.00	0.00
ATOM	387	HD12	LEU	25	-1.127	-3.625	3.212	1.00	0.00
ATOM	388	HD13	LEU	25	0.242	-3.499	2.082	1.00	0.00
ATOM	389	CD2	LEU	25	-2.291	-5.836	2.124	1.00	0.00
ATOM	390	HD21	LEU	25	-2.336	-6.912	1.951	1.00	0.00
ATOM	391	HD22	LEU	25	-2.633	-5.617	3.135	1.00	0.00
ATOM	392	HD23	LEU	25	-2.931	-5.326	1.405	1.00	0.00
ATOM	393	C	LEU	25	0.054	-7.540	-1.055	1.00	0.00
ATOM	394	O	LEU	25	0.026	-6.699	-1.932	1.00	0.00
ATOM	395	N	LYS	26	0.163	-8.810	-1.337	1.00	0.00
ATOM	396	H	LYS	26	0.191	-9.511	-0.610	1.00	0.00

ATOM	397	CA	LYS	26	0.259	-9.258	-2.755	1.00	0.00
ATOM	398	HA	LYS	26	1.048	-8.713	-3.273	1.00	0.00
ATOM	399	CB	LYS	26	0.591	-10.751	-2.793	1.00	0.00
ATOM	400	HB2	LYS	26	1.448	-10.950	-2.150	1.00	0.00
ATOM	401	HB3	LYS	26	-0.267	-11.324	-2.442	1.00	0.00
ATOM	402	CG	LYS	26	0.925	-11.162	-4.229	1.00	0.00
ATOM	403	HG2	LYS	26	0.358	-12.055	-4.493	1.00	0.00
ATOM	404	HG3	LYS	26	0.664	-10.352	-4.909	1.00	0.00
ATOM	405	CD	LYS	26	2.422	-11.458	-4.340	1.00	0.00
ATOM	406	HD2	LYS	26	2.817	-11.003	-5.248	1.00	0.00
ATOM	407	HD3	LYS	26	2.939	-11.047	-3.473	1.00	0.00
ATOM	408	CE	LYS	26	2.641	-12.972	-4.393	1.00	0.00
ATOM	409	HE2	LYS	26	2.956	-13.329	-3.412	1.00	0.00
ATOM	410	HE3	LYS	26	1.711	-13.465	-4.677	1.00	0.00
ATOM	411	NZ	LYS	26	3.696	-13.287	-5.397	1.00	0.00
ATOM	412	HZ1	LYS	26	4.558	-12.832	-5.134	1.00	0.00
ATOM	413	HZ2	LYS	26	3.840	-14.286	-5.432	1.00	0.00
ATOM	414	HZ3	LYS	26	3.405	-12.958	-6.306	1.00	0.00
ATOM	415	C	LYS	26	-1.068	-9.013	-3.485	1.00	0.00
ATOM	416	O	LYS	26	-1.079	-8.659	-4.647	1.00	0.00
ATOM	417	N	PRO	27	-2.213	-9.210	-2.803	1.00	0.00
ATOM	418	CD	PRO	27	-2.322	-9.635	-1.393	1.00	0.00

ATOM	419	HD2 PRO	27	-1.633	-9.053	-0.781	1.00	0.00
ATOM	420	HD3 PRO	27	-2.074	-10.694	-1.310	1.00	0.00
ATOM	421	CG PRO	27	-3.761	-9.356	-1.066	1.00	0.00
ATOM	422	HG2 PRO	27	-3.854	-8.348	-0.664	1.00	0.00
ATOM	423	HG3 PRO	27	-4.112	-10.076	-0.326	1.00	0.00
ATOM	424	CB PRO	27	-4.508	-9.502	-2.346	1.00	0.00
ATOM	425	HB2 PRO	27	-5.382	-8.853	-2.316	1.00	0.00
ATOM	426	HB3 PRO	27	-4.821	-10.523	-2.568	1.00	0.00
ATOM	427	CA PRO	27	-3.534	-9.012	-3.416	1.00	0.00
ATOM	428	HA PRO	27	-3.578	-9.600	-4.333	1.00	0.00
ATOM	429	C PRO	27	-3.795	-7.538	-3.742	1.00	0.00
ATOM	430	O PRO	27	-4.342	-7.211	-4.777	1.00	0.00
ATOM	431	N CYX	28	-3.399	-6.645	-2.877	1.00	0.00
ATOM	432	H CYX	28	-2.937	-6.903	-2.016	1.00	0.00
ATOM	433	CA CYX	28	-3.620	-5.198	-3.155	1.00	0.00
ATOM	434	HA CYX	28	-4.674	-5.009	-3.355	1.00	0.00
ATOM	435	CB CYX	28	-3.197	-4.372	-1.938	1.00	0.00
ATOM	436	HB2 CYX	28	-2.536	-4.967	-1.307	1.00	0.00
ATOM	437	HB3 CYX	28	-2.672	-3.477	-2.271	1.00	0.00
ATOM	438	SG CYX	28	-4.657	-3.968	-0.947	1.00	0.00
ATOM	439	C CYX	28	-2.774	-4.800	-4.365	1.00	0.00
ATOM	440	O CYX	28	-3.278	-4.315	-5.363	1.00	0.00

ATOM	441	N	GLU	29	-1.488	-5.012	-4.292	1.00	0.00
ATOM	442	H	GLU	29	-1.061	-5.418	-3.471	1.00	0.00
ATOM	443	CA	GLU	29	-0.613	-4.661	-5.440	1.00	0.00
ATOM	444	HA	GLU	29	-0.561	-3.579	-5.557	1.00	0.00
ATOM	445	CB	GLU	29	0.798	-5.194	-5.192	1.00	0.00
ATOM	446	HB2	GLU	29	1.037	-5.112	-4.132	1.00	0.00
ATOM	447	HB3	GLU	29	0.851	-6.240	-5.496	1.00	0.00
ATOM	448	CG	GLU	29	1.802	-4.377	-6.005	1.00	0.00
ATOM	449	HG2	GLU	29	1.528	-4.409	-7.060	1.00	0.00
ATOM	450	HG3	GLU	29	1.793	-3.344	-5.659	1.00	0.00
ATOM	451	CD	GLU	29	3.204	-4.962	-5.825	1.00	0.00
ATOM	452	OE1	GLU	29	3.335	-5.912	-5.069	1.00	0.00
ATOM	453	OE2	GLU	29	4.122	-4.453	-6.445	1.00	0.00
ATOM	454	C	GLU	29	-1.182	-5.299	-6.707	1.00	0.00
ATOM	455	O	GLU	29	-1.090	-4.753	-7.789	1.00	0.00
ATOM	456	N	GLN	30	-1.766	-6.459	-6.582	1.00	0.00
ATOM	457	H	GLN	30	-1.840	-6.922	-5.687	1.00	0.00
ATOM	458	CA	GLN	30	-2.338	-7.137	-7.776	1.00	0.00
ATOM	459	HA	GLN	30	-1.605	-7.164	-8.583	1.00	0.00
ATOM	460	CB	GLN	30	-2.718	-8.574	-7.414	1.00	0.00
ATOM	461	HB2	GLN	30	-3.137	-8.598	-6.408	1.00	0.00
ATOM	462	HB3	GLN	30	-3.457	-8.945	-8.124	1.00	0.00

ATOM	463	CG	GLN	30	-1.470	-9.460	-7.467	1.00	0.00
ATOM	464	HG2	GLN	30	-1.150	-9.600	-8.500	1.00	0.00
ATOM	465	HG3	GLN	30	-0.659	-9.009	-6.895	1.00	0.00
ATOM	466	CD	GLN	30	-1.790	-10.828	-6.865	1.00	0.00
ATOM	467	OE1	GLN	30	-2.887	-11.058	-6.395	1.00	0.00
ATOM	468	NE2	GLN	30	-0.871	-11.755	-6.857	1.00	0.00
ATOM	469	HE21	GLN	30	-1.075	-12.662	-6.461	1.00	0.00
ATOM	470	HE22	GLN	30	0.041	-11.562	-7.247	1.00	0.00
ATOM	471	C	GLN	30	-3.582	-6.382	-8.251	1.00	0.00
ATOM	472	O	GLN	30	-3.958	-6.459	-9.404	1.00	0.00
ATOM	473	N	HID	31	-4.224	-5.648	-7.382	1.00	0.00
ATOM	474	H	HID	31	-3.923	-5.574	-6.421	1.00	0.00
ATOM	475	CA	HID	31	-5.434	-4.892	-7.803	1.00	0.00
ATOM	476	HA	HID	31	-6.047	-5.500	-8.468	1.00	0.00
ATOM	477	CB	HID	31	-6.264	-4.529	-6.567	1.00	0.00
ATOM	478	HB2	HID	31	-6.937	-5.337	-6.280	1.00	0.00
ATOM	479	HB3	HID	31	-5.639	-4.259	-5.716	1.00	0.00
ATOM	480	CG	HID	31	-7.128	-3.332	-6.864	1.00	0.00
ATOM	481	ND1	HID	31	-8.199	-3.392	-7.742	1.00	0.00
ATOM	482	HD1	HID	31	-8.506	-4.204	-8.259	1.00	0.00
ATOM	483	CE1	HID	31	-8.759	-2.169	-7.783	1.00	0.00
ATOM	484	HE1	HID	31	-9.624	-2.039	-8.434	1.00	0.00



ATOM	485	NE2	HID	31	-8.124	-1.306	-6.985	1.00	0.00
ATOM	486	CD2	HID	31	-7.093	-2.038	-6.403	1.00	0.00
ATOM	487	HD2	HID	31	-6.414	-1.558	-5.698	1.00	0.00
ATOM	488	C	HID	31	-4.981	-3.624	-8.518	1.00	0.00
ATOM	489	O	HID	31	-5.714	-3.026	-9.281	1.00	0.00
ATOM	490	N	ILE	32	-3.767	-3.216	-8.277	1.00	0.00
ATOM	491	H	ILE	32	-3.157	-3.710	-7.641	1.00	0.00
ATOM	492	CA	ILE	32	-3.248	-1.990	-8.943	1.00	0.00
ATOM	493	HA	ILE	32	-4.084	-1.335	-9.187	1.00	0.00
ATOM	494	CB	ILE	32	-2.278	-1.256	-8.011	1.00	0.00
ATOM	495	HB	ILE	32	-1.315	-1.134	-8.507	1.00	0.00
ATOM	496	CG2	ILE	32	-2.851	0.116	-7.669	1.00	0.00
ATOM	497	HG21	ILE	32	-3.813	-0.006	-7.172	1.00	0.00
ATOM	498	HG22	ILE	32	-2.164	0.642	-7.006	1.00	0.00
ATOM	499	HG23	ILE	32	-2.985	0.692	-8.584	1.00	0.00
ATOM	500	CG1	ILE	32	-2.083	-2.059	-6.721	1.00	0.00
ATOM	501	HG12	ILE	32	-3.056	-2.302	-6.295	1.00	0.00
ATOM	502	HG13	ILE	32	-1.545	-2.981	-6.946	1.00	0.00
ATOM	503	CD1	ILE	32	-1.279	-1.232	-5.716	1.00	0.00
ATOM	504	HD11	ILE	32	-1.816	-0.311	-5.490	1.00	0.00
ATOM	505	HD12	ILE	32	-1.142	-1.806	-4.800	1.00	0.00
ATOM	506	HD13	ILE	32	-0.305	-0.990	-6.141	1.00	0.00

ATOM	507	C	ILE	32	-2.520	-2.384	-10.227	1.00	0.00
ATOM	508	O	ILE	32	-2.793	-1.863	-11.290	1.00	0.00
ATOM	509	N	MET	33	-1.601	-3.305	-10.141	1.00	0.00
ATOM	510	H	MET	33	-1.368	-3.745	-9.262	1.00	0.00
ATOM	511	CA	MET	33	-0.864	-3.734	-11.362	1.00	0.00
ATOM	512	HA	MET	33	-0.352	-2.884	-11.813	1.00	0.00
ATOM	513	CB	MET	33	0.179	-4.788	-10.984	1.00	0.00
ATOM	514	HB2	MET	33	-0.325	-5.687	-10.628	1.00	0.00
ATOM	515	HB3	MET	33	0.782	-5.033	-11.858	1.00	0.00
ATOM	516	CG	MET	33	1.083	-4.239	-9.879	1.00	0.00
ATOM	517	HG2	MET	33	1.483	-3.270	-10.177	1.00	0.00
ATOM	518	HG3	MET	33	0.512	-4.128	-8.957	1.00	0.00
ATOM	519	SD	MET	33	2.454	-5.386	-9.595	1.00	0.00
ATOM	520	CE	MET	33	3.585	-4.694	-10.826	1.00	0.00
ATOM	521	HE1	MET	33	3.794	-3.652	-10.584	1.00	0.00
ATOM	522	HE2	MET	33	4.517	-5.261	-10.823	1.00	0.00
ATOM	523	HE3	MET	33	3.128	-4.753	-11.814	1.00	0.00
ATOM	524	C	MET	33	-1.854	-4.329	-12.363	1.00	0.00
ATOM	525	O	MET	33	-1.760	-4.105	-13.552	1.00	0.00
ATOM	526	N	GLN	34	-2.804	-5.085	-11.888	1.00	0.00
ATOM	527	H	GLN	34	-2.887	-5.273	-10.899	1.00	0.00
ATOM	528	CA	GLN	34	-3.802	-5.698	-12.810	1.00	0.00

ATOM	529	HA	GLN	34	-3.298	-6.296	-13.570	1.00	0.00
ATOM	530	CB	GLN	34	-4.739	-6.608	-12.013	1.00	0.00
ATOM	531	HB2	GLN	34	-5.091	-6.081	-11.127	1.00	0.00
ATOM	532	HB3	GLN	34	-5.591	-6.885	-12.633	1.00	0.00
ATOM	533	CG	GLN	34	-3.986	-7.870	-11.589	1.00	0.00
ATOM	534	HG2	GLN	34	-3.705	-8.456	-12.464	1.00	0.00
ATOM	535	HG3	GLN	34	-3.090	-7.605	-11.027	1.00	0.00
ATOM	536	CD	GLN	34	-4.887	-8.726	-10.697	1.00	0.00
ATOM	537	OE1	GLN	34	-5.942	-8.290	-10.282	1.00	0.00
ATOM	538	NE2	GLN	34	-4.513	-9.936	-10.383	1.00	0.00
ATOM	539	HE21	GLN	34	-5.103	-10.507	-9.795	1.00	0.00
ATOM	540	HE22	GLN	34	-3.635	-10.297	-10.730	1.00	0.00
ATOM	541	C	GLN	34	-4.619	-4.599	-13.492	1.00	0.00
ATOM	542	O	GLN	34	-4.854	-4.640	-14.683	1.00	0.00
ATOM	543	N	ARG	35	-5.062	-3.621	-12.750	1.00	0.00
ATOM	544	H	ARG	35	-4.874	-3.579	-11.759	1.00	0.00
ATOM	545	CA	ARG	35	-5.871	-2.529	-13.364	1.00	0.00
ATOM	546	HA	ARG	35	-6.733	-2.944	-13.885	1.00	0.00
ATOM	547	CB	ARG	35	-6.369	-1.588	-12.267	1.00	0.00
ATOM	548	HB2	ARG	35	-5.588	-1.456	-11.518	1.00	0.00
ATOM	549	HB3	ARG	35	-6.620	-0.622	-12.703	1.00	0.00
ATOM	550	CG	ARG	35	-7.613	-2.189	-11.606	1.00	0.00

ATOM	551	HG2 ARG	35	-8.317	-2.507	-12.376	1.00	0.00
ATOM	552	HG3 ARG	35	-7.324	-3.049	-11.002	1.00	0.00
ATOM	553	CD ARG	35	-8.274	-1.137	-10.713	1.00	0.00
ATOM	554	HD2 ARG	35	-8.684	-0.331	-11.320	1.00	0.00
ATOM	555	HD3 ARG	35	-9.071	-1.590	-10.124	1.00	0.00
ATOM	556	NE ARG	35	-7.259	-0.566	-9.784	1.00	0.00
ATOM	557	HE ARG	35	-6.411	-1.066	-9.557	1.00	0.00
ATOM	558	CZ ARG	35	-7.456	0.604	-9.241	1.00	0.00
ATOM	559	NH1 ARG	35	-7.971	1.573	-9.948	1.00	0.00
ATOM	560	HH11 ARG	35	-8.216	1.413	-10.915	1.00	0.00
ATOM	561	HH12 ARG	35	-8.122	2.477	-9.525	1.00	0.00
ATOM	562	NH2 ARG	35	-7.136	0.806	-7.993	1.00	0.00
ATOM	563	HH21 ARG	35	-6.736	0.054	-7.450	1.00	0.00
ATOM	564	HH22 ARG	35	-7.290	1.712	-7.576	1.00	0.00
ATOM	565	C ARG	35	-5.013	-1.742	-14.358	1.00	0.00
ATOM	566	O ARG	35	-5.371	-1.580	-15.507	1.00	0.00
ATOM	567	N ILE	36	-3.888	-1.247	-13.924	1.00	0.00
ATOM	568	H ILE	36	-3.585	-1.375	-12.969	1.00	0.00
ATOM	569	CA ILE	36	-3.014	-0.465	-14.844	1.00	0.00
ATOM	570	HA ILE	36	-3.588	0.341	-15.300	1.00	0.00
ATOM	571	CB ILE	36	-1.846	0.126	-14.052	1.00	0.00
ATOM	572	HB ILE	36	-1.212	0.710	-14.719	1.00	0.00

ATOM	573	CG2 ILE	36	-2.390	1.030	-12.943	1.00	0.00
ATOM	574	HG21 ILE	36	-3.023	0.446	-12.276	1.00	0.00
ATOM	575	HG22 ILE	36	-1.559	1.452	-12.377	1.00	0.00
ATOM	576	HG23 ILE	36	-2.975	1.836	-13.385	1.00	0.00
ATOM	577	CG1 ILE	36	-1.023	-1.008	-13.435	1.00	0.00
ATOM	578	HG12 ILE	36	-1.695	-1.766	-13.033	1.00	0.00
ATOM	579	HG13 ILE	36	-0.389	-1.455	-14.202	1.00	0.00
ATOM	580	CD1 ILE	36	-0.147	-0.454	-12.309	1.00	0.00
ATOM	581	HD11 ILE	36	-0.779	-0.008	-11.542	1.00	0.00
ATOM	582	HD12 ILE	36	0.438	-1.263	-11.871	1.00	0.00
ATOM	583	HD13 ILE	36	0.526	0.303	-12.711	1.00	0.00
ATOM	584	C ILE	36	-2.473	-1.375	-15.949	1.00	0.00
ATOM	585	O ILE	36	-1.958	-0.913	-16.947	1.00	0.00
ATOM	586	N MET	37	-2.585	-2.665	-15.783	1.00	0.00
ATOM	587	H MET	37	-3.009	-3.063	-14.957	1.00	0.00
ATOM	588	CA MET	37	-2.073	-3.594	-16.832	1.00	0.00
ATOM	589	HA MET	37	-1.422	-3.060	-17.524	1.00	0.00
ATOM	590	CB MET	37	-1.270	-4.718	-16.175	1.00	0.00
ATOM	591	HB2 MET	37	-1.837	-5.132	-15.341	1.00	0.00
ATOM	592	HB3 MET	37	-1.075	-5.503	-16.907	1.00	0.00
ATOM	593	CG MET	37	0.059	-4.160	-15.660	1.00	0.00
ATOM	594	HG2 MET	37	0.475	-3.466	-16.390	1.00	0.00

ATOM	595	HG3 MET	37	-0.100	-3.641	-14.715	1.00	0.00
ATOM	596	SD MET	37	1.224	-5.520	-15.401	1.00	0.00
ATOM	597	CE MET	37	0.229	-6.449	-14.209	1.00	0.00
ATOM	598	HE1 MET	37	-0.718	-6.732	-14.668	1.00	0.00
ATOM	599	HE2 MET	37	0.768	-7.348	-13.907	1.00	0.00
ATOM	600	HE3 MET	37	0.038	-5.829	-13.333	1.00	0.00
ATOM	601	C MET	37	-3.251	-4.190	-17.604	1.00	0.00
ATOM	602	O MET	37	-3.100	-4.670	-18.711	1.00	0.00
ATOM	603	N GLY	38	-4.424	-4.165	-17.033	1.00	0.00
ATOM	604	H GLY	38	-4.558	-3.769	-16.114	1.00	0.00
ATOM	605	CA GLY	38	-5.608	-4.731	-17.738	1.00	0.00
ATOM	606	HA2 GLY	38	-5.399	-5.752	-18.060	1.00	0.00
ATOM	607	HA3 GLY	38	-6.473	-4.730	-17.076	1.00	0.00
ATOM	608	C GLY	38	-5.920	-3.875	-18.968	1.00	0.00
ATOM	609	O GLY	38	-6.499	-4.341	-19.930	1.00	0.00
ATOM	610	N GLU	39	-5.541	-2.627	-18.943	1.00	0.00
ATOM	611	H GLU	39	-5.061	-2.234	-18.146	1.00	0.00
ATOM	612	CA GLU	39	-5.815	-1.742	-20.110	1.00	0.00
ATOM	613	HA GLU	39	-6.883	-1.724	-20.328	1.00	0.00
ATOM	614	CB GLU	39	-5.356	-0.318	-19.790	1.00	0.00
ATOM	615	HB2 GLU	39	-5.817	0.012	-18.859	1.00	0.00
ATOM	616	HB3 GLU	39	-4.271	-0.301	-19.684	1.00	0.00

ATOM	617	CG	GLU	39	-5.772	0.619	-20.925	1.00	0.00
ATOM	618	HG2	GLU	39	-5.395	0.232	-21.872	1.00	0.00
ATOM	619	HG3	GLU	39	-6.859	0.681	-20.965	1.00	0.00
ATOM	620	CD	GLU	39	-5.191	2.012	-20.676	1.00	0.00
ATOM	621	OE1	GLU	39	-4.480	2.169	-19.696	1.00	0.00
ATOM	622	OE2	GLU	39	-5.466	2.898	-21.468	1.00	0.00
ATOM	623	C	GLU	39	-5.057	-2.261	-21.333	1.00	0.00
ATOM	624	O	GLU	39	-5.441	-2.022	-22.461	1.00	0.00
ATOM	625	N	GLN	40	-3.981	-2.968	-21.120	1.00	0.00
ATOM	626	H	GLN	40	-3.653	-3.170	-20.186	1.00	0.00
ATOM	627	CA	GLN	40	-3.201	-3.501	-22.272	1.00	0.00
ATOM	628	HA	GLN	40	-2.927	-2.693	-22.950	1.00	0.00
ATOM	629	CB	GLN	40	-1.921	-4.164	-21.759	1.00	0.00
ATOM	630	HB2	GLN	40	-2.170	-4.874	-20.970	1.00	0.00
ATOM	631	HB3	GLN	40	-1.430	-4.691	-22.578	1.00	0.00
ATOM	632	CG	GLN	40	-0.979	-3.094	-21.204	1.00	0.00
ATOM	633	HG2	GLN	40	-0.722	-2.375	-21.982	1.00	0.00
ATOM	634	HG3	GLN	40	-1.449	-2.574	-20.370	1.00	0.00
ATOM	635	CD	GLN	40	0.307	-3.755	-20.705	1.00	0.00
ATOM	636	OE1	GLN	40	0.369	-4.961	-20.566	1.00	0.00
ATOM	637	NE2	GLN	40	1.345	-3.013	-20.429	1.00	0.00
ATOM	638	HE21	GLN	40	2.197	-3.445	-20.099	1.00	0.00

ATOM	639	HE22	GLN	40	1.292	-2.012	-20.547	1.00	0.00
ATOM	640	C	GLN	40	-4.045	-4.532	-23.023	1.00	0.00
ATOM	641	O	GLN	40	-3.942	-4.677	-24.224	1.00	0.00
ATOM	642	N	GLU	41	-4.880	-5.250	-22.322	1.00	0.00
ATOM	643	H	GLU	41	-4.969	-5.138	-21.322	1.00	0.00
ATOM	644	CA	GLU	41	-5.732	-6.270	-22.997	1.00	0.00
ATOM	645	HA	GLU	41	-5.110	-7.041	-23.453	1.00	0.00
ATOM	646	CB	GLU	41	-6.651	-6.929	-21.966	1.00	0.00
ATOM	647	HB2	GLU	41	-7.262	-6.167	-21.484	1.00	0.00
ATOM	648	HB3	GLU	41	-7.298	-7.651	-22.465	1.00	0.00
ATOM	649	CG	GLU	41	-5.805	-7.646	-20.912	1.00	0.00
ATOM	650	HG2	GLU	41	-5.171	-8.389	-21.397	1.00	0.00
ATOM	651	HG3	GLU	41	-5.180	-6.920	-20.392	1.00	0.00
ATOM	652	CD	GLU	41	-6.725	-8.340	-19.906	1.00	0.00
ATOM	653	OE1	GLU	41	-7.920	-8.107	-19.968	1.00	0.00
ATOM	654	OE2	GLU	41	-6.218	-9.093	-19.092	1.00	0.00
ATOM	655	C	GLU	41	-6.577	-5.593	-24.078	1.00	0.00
ATOM	656	O	GLU	41	-7.080	-4.504	-23.892	1.00	0.00
ATOM	657	N	GLN	42	-6.737	-6.231	-25.205	1.00	0.00
ATOM	658	H	GLN	42	-6.320	-7.137	-25.368	1.00	0.00
ATOM	659	CA	GLN	42	-7.550	-5.622	-26.294	1.00	0.00
ATOM	660	HA	GLN	42	-7.150	-4.645	-26.564	1.00	0.00



ATOM	661	CB	GLN	42	-7.507	-6.526	-27.528	1.00	0.00
ATOM	662	HB2	GLN	42	-7.852	-7.525	-27.260	1.00	0.00
ATOM	663	HB3	GLN	42	-8.153	-6.115	-28.303	1.00	0.00
ATOM	664	CG	GLN	42	-6.072	-6.606	-28.051	1.00	0.00
ATOM	665	HG2	GLN	42	-5.418	-7.048	-27.299	1.00	0.00
ATOM	666	HG3	GLN	42	-6.034	-7.205	-28.961	1.00	0.00
ATOM	667	CD	GLN	42	-5.567	-5.197	-28.371	1.00	0.00
ATOM	668	OE1	GLN	42	-6.218	-4.450	-29.073	1.00	0.00
ATOM	669	NE2	GLN	42	-4.425	-4.800	-27.881	1.00	0.00
ATOM	670	HE21	GLN	42	-4.085	-3.872	-28.088	1.00	0.00
ATOM	671	HE22	GLN	42	-3.885	-5.423	-27.297	1.00	0.00
ATOM	672	C	GLN	42	-8.997	-5.465	-25.824	1.00	0.00
ATOM	673	O	GLN	42	-9.668	-4.509	-26.156	1.00	0.00
ATOM	674	N	TYR	43	-9.484	-6.398	-25.051	1.00	0.00
ATOM	675	H	TYR	43	-8.932	-7.196	-24.769	1.00	0.00
ATOM	676	CA	TYR	43	-10.888	-6.301	-24.560	1.00	0.00
ATOM	677	HA	TYR	43	-11.372	-5.416	-24.973	1.00	0.00
ATOM	678	CB	TYR	43	-11.672	-7.539	-25.003	1.00	0.00
ATOM	679	HB2	TYR	43	-11.210	-8.431	-24.579	1.00	0.00
ATOM	680	HB3	TYR	43	-12.702	-7.464	-24.655	1.00	0.00
ATOM	681	CG	TYR	43	-11.656	-7.632	-26.510	1.00	0.00
ATOM	682	CD1	TYR	43	-12.531	-6.845	-27.269	1.00	0.00

ATOM	683	HD1	TYR	43	-13.222	-6.165	-26.773	1.00	0.00
ATOM	684	CE1	TYR	43	-12.517	-6.933	-28.666	1.00	0.00
ATOM	685	HE1	TYR	43	-13.198	-6.321	-29.257	1.00	0.00
ATOM	686	CZ	TYR	43	-11.630	-7.808	-29.304	1.00	0.00
ATOM	687	OH	TYR	43	-11.617	-7.894	-30.682	1.00	0.00
ATOM	688	HH	TYR	43	-12.255	-7.312	-31.100	1.00	0.00
ATOM	689	CE2	TYR	43	-10.755	-8.594	-28.545	1.00	0.00
ATOM	690	HE2	TYR	43	-10.063	-9.275	-29.041	1.00	0.00
ATOM	691	CD2	TYR	43	-10.769	-8.506	-27.149	1.00	0.00
ATOM	692	HD2	TYR	43	-10.088	-9.119	-26.558	1.00	0.00
ATOM	693	C	TYR	43	-10.888	-6.220	-23.032	1.00	0.00
ATOM	694	O	TYR	43	-9.941	-6.612	-22.380	1.00	0.00
ATOM	695	N	ASP	44	-11.944	-5.714	-22.456	1.00	0.00
ATOM	696	H	ASP	44	-12.735	-5.387	-22.991	1.00	0.00
ATOM	697	CA	ASP	44	-12.003	-5.608	-20.971	1.00	0.00
ATOM	698	HA	ASP	44	-12.009	-6.601	-20.522	1.00	0.00
ATOM	699	CB	ASP	44	-10.775	-4.849	-20.462	1.00	0.00
ATOM	700	HB2	ASP	44	-10.900	-4.625	-19.403	1.00	0.00
ATOM	701	HB3	ASP	44	-9.884	-5.462	-20.600	1.00	0.00
ATOM	702	CG	ASP	44	-10.622	-3.543	-21.245	1.00	0.00
ATOM	703	OD1	ASP	44	-11.338	-3.370	-22.217	1.00	0.00
ATOM	704	OD2	ASP	44	-9.789	-2.740	-20.858	1.00	0.00

ATOM	705	C	ASP	44	-13.272	-4.856	-20.564	1.00	0.00
ATOM	706	O	ASP	44	-13.979	-5.253	-19.660	1.00	0.00
ATOM	707	N	SER	45	-13.567	-3.770	-21.226	1.00	0.00
ATOM	708	H	SER	45	-12.984	-3.432	-21.978	1.00	0.00
ATOM	709	CA	SER	45	-14.791	-2.995	-20.878	1.00	0.00
ATOM	710	HA	SER	45	-14.669	-2.509	-19.910	1.00	0.00
ATOM	711	CB	SER	45	-15.030	-1.919	-21.939	1.00	0.00
ATOM	712	HB2	SER	45	-15.836	-1.261	-21.615	1.00	0.00
ATOM	713	HB3	SER	45	-14.119	-1.337	-22.077	1.00	0.00
ATOM	714	OG	SER	45	-15.388	-2.536	-23.167	1.00	0.00
ATOM	715	HG	SER	45	-15.538	-1.861	-23.833	1.00	0.00
ATOM	716	C	SER	45	-15.994	-3.937	-20.826	1.00	0.00
ATOM	717	O	SER	45	-16.892	-3.770	-20.025	1.00	0.00
ATOM	718	N	TYR	46	-16.021	-4.927	-21.677	1.00	0.00
ATOM	719	H	TYR	46	-15.277	-5.073	-22.345	1.00	0.00
ATOM	720	CA	TYR	46	-17.167	-5.878	-21.678	1.00	0.00
ATOM	721	HA	TYR	46	-18.100	-5.346	-21.864	1.00	0.00
ATOM	722	CB	TYR	46	-16.967	-6.916	-22.784	1.00	0.00
ATOM	723	HB2	TYR	46	-16.001	-7.406	-22.656	1.00	0.00
ATOM	724	HB3	TYR	46	-17.761	-7.661	-22.731	1.00	0.00
ATOM	725	CG	TYR	46	-17.009	-6.231	-24.129	1.00	0.00
ATOM	726	CD1	TYR	46	-18.201	-5.657	-24.585	1.00	0.00

ATOM	727	HD1	TYR	46	-19.099	-5.706	-23.969	1.00	0.00
ATOM	728	CE1	TYR	46	-18.241	-5.021	-25.832	1.00	0.00
ATOM	729	HE1	TYR	46	-19.169	-4.575	-26.187	1.00	0.00
ATOM	730	CZ	TYR	46	-17.087	-4.958	-26.622	1.00	0.00
ATOM	731	OH	TYR	46	-17.126	-4.332	-27.851	1.00	0.00
ATOM	732	HH	TYR	46	-17.992	-3.977	-28.064	1.00	0.00
ATOM	733	CE2	TYR	46	-15.894	-5.531	-26.166	1.00	0.00
ATOM	734	HE2	TYR	46	-14.996	-5.482	-26.782	1.00	0.00
ATOM	735	CD2	TYR	46	-15.854	-6.168	-24.919	1.00	0.00
ATOM	736	HD2	TYR	46	-14.925	-6.614	-24.564	1.00	0.00
ATOM	737	C	TYR	46	-17.244	-6.586	-20.323	1.00	0.00
ATOM	738	O	TYR	46	-18.309	-6.765	-19.766	1.00	0.00
ATOM	739	N	ASP	47	-16.124	-6.991	-19.789	1.00	0.00
ATOM	740	H	ASP	47	-15.234	-6.846	-20.245	1.00	0.00
ATOM	741	CA	ASP	47	-16.137	-7.687	-18.472	1.00	0.00
ATOM	742	HA	ASP	47	-17.148	-8.011	-18.225	1.00	0.00
ATOM	743	CB	ASP	47	-15.232	-8.919	-18.537	1.00	0.00
ATOM	744	HB2	ASP	47	-14.238	-8.627	-18.877	1.00	0.00
ATOM	745	HB3	ASP	47	-15.159	-9.368	-17.546	1.00	0.00
ATOM	746	CG	ASP	47	-15.826	-9.936	-19.514	1.00	0.00
ATOM	747	OD1	ASP	47	-16.986	-9.787	-19.861	1.00	0.00
ATOM	748	OD2	ASP	47	-15.110	-10.845	-19.901	1.00	0.00

ATOM	749	C	ASP	47	-15.625	-6.737	-17.387	1.00	0.00
ATOM	750	O	ASP	47	-14.502	-6.273	-17.434	1.00	0.00
ATOM	751	N	ILE	48	-16.438	-6.442	-16.410	1.00	0.00
ATOM	752	H	ILE	48	-17.372	-6.824	-16.363	1.00	0.00
ATOM	753	CA	ILE	48	-15.996	-5.521	-15.325	1.00	0.00
ATOM	754	HA	ILE	48	-15.748	-4.549	-15.751	1.00	0.00
ATOM	755	CB	ILE	48	-17.124	-5.358	-14.304	1.00	0.00
ATOM	756	HB	ILE	48	-17.360	-6.328	-13.865	1.00	0.00
ATOM	757	CG2	ILE	48	-16.679	-4.395	-13.202	1.00	0.00
ATOM	758	HG21	ILE	48	-16.442	-3.426	-13.640	1.00	0.00
ATOM	759	HG22	ILE	48	-17.482	-4.279	-12.474	1.00	0.00
ATOM	760	HG23	ILE	48	-15.794	-4.795	-12.705	1.00	0.00
ATOM	761	CG1	ILE	48	-18.366	-4.797	-15.000	1.00	0.00
ATOM	762	HG12	ILE	48	-18.166	-3.780	-15.337	1.00	0.00
ATOM	763	HG13	ILE	48	-18.615	-5.421	-15.859	1.00	0.00
ATOM	764	CD1	ILE	48	-19.540	-4.788	-14.019	1.00	0.00
ATOM	765	HD11	ILE	48	-19.292	-4.164	-13.160	1.00	0.00
ATOM	766	HD12	ILE	48	-20.425	-4.389	-14.514	1.00	0.00
ATOM	767	HD13	ILE	48	-19.740	-5.806	-13.682	1.00	0.00
ATOM	768	C	ILE	48	-14.763	-6.105	-14.634	1.00	0.00
ATOM	769	O	ILE	48	-13.808	-5.409	-14.354	1.00	0.00
ATOM	770	N	ARG	49	-14.776	-7.381	-14.355	1.00	0.00

ATOM	771	H	ARG	49	-15.566	-7.967	-14.585	1.00	0.00
ATOM	772	CA	ARG	49	-13.605	-8.008	-13.682	1.00	0.00
ATOM	773	HA	ARG	49	-12.745	-7.339	-13.717	1.00	0.00
ATOM	774	CB	ARG	49	-13.947	-8.288	-12.217	1.00	0.00
ATOM	775	HB2	ARG	49	-14.832	-8.923	-12.164	1.00	0.00
ATOM	776	HB3	ARG	49	-13.109	-8.794	-11.738	1.00	0.00
ATOM	777	CG	ARG	49	-14.224	-6.966	-11.497	1.00	0.00
ATOM	778	HG2	ARG	49	-14.982	-6.406	-12.044	1.00	0.00
ATOM	779	HG3	ARG	49	-14.580	-7.170	-10.487	1.00	0.00
ATOM	780	CD	ARG	49	-12.935	-6.144	-11.427	1.00	0.00
ATOM	781	HD2	ARG	49	-12.138	-6.730	-10.967	1.00	0.00
ATOM	782	HD3	ARG	49	-12.628	-5.837	-12.427	1.00	0.00
ATOM	783	NE	ARG	49	-13.168	-4.925	-10.603	1.00	0.00
ATOM	784	HE	ARG	49	-14.079	-4.711	-10.224	1.00	0.00
ATOM	785	CZ	ARG	49	-12.183	-4.106	-10.356	1.00	0.00
ATOM	786	NH1	ARG	49	-10.953	-4.477	-10.584	1.00	0.00
ATOM	787	HH11	ARG	49	-10.767	-5.399	-10.952	1.00	0.00
ATOM	788	HH12	ARG	49	-10.193	-3.841	-10.392	1.00	0.00
ATOM	789	NH2	ARG	49	-12.428	-2.915	-9.881	1.00	0.00
ATOM	790	HH21	ARG	49	-13.381	-2.631	-9.706	1.00	0.00
ATOM	791	HH22	ARG	49	-11.663	-2.284	-9.691	1.00	0.00
ATOM	792	C	ARG	49	-13.257	-9.323	-14.384	1.00	0.00

ATOM	793	O	ARG	49	-14.124	-10.041	-14.841	1.00	0.00
ATOM	794	N	SER	50	-11.995	-9.642	-14.475	1.00	0.00
ATOM	795	H	SER	50	-11.269	-9.050	-14.099	1.00	0.00
ATOM	796	CA	SER	50	-11.594	-10.909	-15.148	1.00	0.00
ATOM	797	HA	SER	50	-11.845	-10.871	-16.208	1.00	0.00
ATOM	798	CB	SER	50	-10.082	-11.102	-15.010	1.00	0.00
ATOM	799	HB2	SER	50	-9.825	-11.222	-13.958	1.00	0.00
ATOM	800	HB3	SER	50	-9.776	-11.992	-15.562	1.00	0.00
ATOM	801	OG	SER	50	-9.411	-9.967	-15.534	1.00	0.00
ATOM	802	HG	SER	50	-8.462	-10.088	-15.448	1.00	0.00
ATOM	803	C	SER	50	-12.321	-12.087	-14.495	1.00	0.00
ATOM	804	O	SER	50	-12.763	-13.002	-15.162	1.00	0.00
ATOM	805	N	THR	51	-12.448	-12.072	-13.197	1.00	0.00
ATOM	806	H	THR	51	-12.083	-11.316	-12.637	1.00	0.00
ATOM	807	CA	THR	51	-13.146	-13.191	-12.504	1.00	0.00
ATOM	808	HA	THR	51	-13.844	-13.683	-13.181	1.00	0.00
ATOM	809	CB	THR	51	-12.117	-14.220	-12.032	1.00	0.00
ATOM	810	HB	THR	51	-11.454	-14.476	-12.859	1.00	0.00
ATOM	811	CG2	THR	51	-11.296	-13.635	-10.883	1.00	0.00
ATOM	812	HG21	THR	51	-11.958	-13.380	-10.056	1.00	0.00
ATOM	813	HG22	THR	51	-10.563	-14.370	-10.548	1.00	0.00
ATOM	814	HG23	THR	51	-10.780	-12.738	-11.225	1.00	0.00

ATOM	815	OG1 THR	51	-12.788	-15.392	-11.589	1.00	0.00
ATOM	816	HG1 THR	51	-12.142	-16.038	-11.293	1.00	0.00
ATOM	817	C THR	51	-13.912	-12.646	-11.297	1.00	0.00
ATOM	818	O THR	51	-13.586	-11.605	-10.762	1.00	0.00
ATOM	819	N ARG	52	-14.928	-13.341	-10.864	1.00	0.00
ATOM	820	H ARG	52	-15.204	-14.208	-11.303	1.00	0.00
ATOM	821	CA ARG	52	-15.714	-12.861	-9.692	1.00	0.00
ATOM	822	HA ARG	52	-16.128	-11.874	-9.894	1.00	0.00
ATOM	823	CB ARG	52	-16.867	-13.829	-9.420	1.00	0.00
ATOM	824	HB2 ARG	52	-16.473	-14.838	-9.291	1.00	0.00
ATOM	825	HB3 ARG	52	-17.391	-13.526	-8.514	1.00	0.00
ATOM	826	CG ARG	52	-17.838	-13.809	-10.602	1.00	0.00
ATOM	827	HG2 ARG	52	-18.154	-12.784	-10.796	1.00	0.00
ATOM	828	HG3 ARG	52	-17.343	-14.211	-11.487	1.00	0.00
ATOM	829	CD ARG	52	-19.063	-14.666	-10.270	1.00	0.00
ATOM	830	HD2 ARG	52	-19.595	-14.250	-9.415	1.00	0.00
ATOM	831	HD3 ARG	52	-19.734	-14.714	-11.127	1.00	0.00
ATOM	832	NE ARG	52	-18.623	-16.048	-9.931	1.00	0.00
ATOM	833	HE ARG	52	-17.706	-16.233	-9.550	1.00	0.00
ATOM	834	CZ ARG	52	-19.431	-17.055	-10.125	1.00	0.00
ATOM	835	NH1 ARG	52	-19.835	-17.772	-9.112	1.00	0.00
ATOM	836	HH11 ARG	52	-19.520	-17.546	-8.179	1.00	0.00



ATOM	837	HH12	ARG	52	-20.460	-18.551	-9.266	1.00	0.00
ATOM	838	NH2	ARG	52	-19.834	-17.344	-11.331	1.00	0.00
ATOM	839	HH21	ARG	52	-19.519	-16.787	-12.112	1.00	0.00
ATOM	840	HH22	ARG	52	-20.459	-18.124	-11.478	1.00	0.00
ATOM	841	C	ARG	52	-14.807	-12.792	-8.462	1.00	0.00
ATOM	842	O	ARG	52	-14.970	-11.944	-7.607	1.00	0.00
ATOM	843	N	SER	53	-13.853	-13.676	-8.365	1.00	0.00
ATOM	844	H	SER	53	-13.713	-14.384	-9.072	1.00	0.00
ATOM	845	CA	SER	53	-12.937	-13.661	-7.190	1.00	0.00
ATOM	846	HA	SER	53	-13.500	-13.814	-6.270	1.00	0.00
ATOM	847	CB	SER	53	-11.911	-14.788	-7.327	1.00	0.00
ATOM	848	HB2	SER	53	-11.351	-14.887	-6.397	1.00	0.00
ATOM	849	HB3	SER	53	-12.425	-15.725	-7.542	1.00	0.00
ATOM	850	OG	SER	53	-11.016	-14.486	-8.388	1.00	0.00
ATOM	851	HG	SER	53	-10.372	-15.193	-8.474	1.00	0.00
ATOM	852	C	SER	53	-12.213	-12.315	-7.125	1.00	0.00
ATOM	853	O	SER	53	-11.714	-11.917	-6.090	1.00	0.00
ATOM	854	N	SER	54	-12.149	-11.610	-8.221	1.00	0.00
ATOM	855	H	SER	54	-12.561	-11.935	-9.084	1.00	0.00
ATOM	856	CA	SER	54	-11.456	-10.291	-8.221	1.00	0.00
ATOM	857	HA	SER	54	-10.389	-10.425	-8.041	1.00	0.00
ATOM	858	CB	SER	54	-11.642	-9.616	-9.581	1.00	0.00

ATOM	859	HB2	SER	54	-11.323	-10.296	-10.371	1.00	0.00
ATOM	860	HB3	SER	54	-12.693	-9.364	-9.721	1.00	0.00
ATOM	861	OG	SER	54	-10.861	-8.432	-9.633	1.00	0.00
ATOM	862	HG	SER	54	-10.978	-8.009	-10.487	1.00	0.00
ATOM	863	C	SER	54	-12.050	-9.403	-7.126	1.00	0.00
ATOM	864	O	SER	54	-11.367	-8.592	-6.533	1.00	0.00
ATOM	865	N	ASP	55	-13.317	-9.548	-6.854	1.00	0.00
ATOM	866	H	ASP	55	-13.891	-10.219	-7.344	1.00	0.00
ATOM	867	CA	ASP	55	-13.953	-8.711	-5.797	1.00	0.00
ATOM	868	HA	ASP	55	-13.851	-7.654	-6.040	1.00	0.00
ATOM	869	CB	ASP	55	-15.442	-9.051	-5.705	1.00	0.00
ATOM	870	HB2	ASP	55	-15.562	-10.128	-5.586	1.00	0.00
ATOM	871	HB3	ASP	55	-15.879	-8.541	-4.847	1.00	0.00
ATOM	872	CG	ASP	55	-16.150	-8.597	-6.983	1.00	0.00
ATOM	873	OD1	ASP	55	-15.537	-7.874	-7.751	1.00	0.00
ATOM	874	OD2	ASP	55	-17.293	-8.980	-7.172	1.00	0.00
ATOM	875	C	ASP	55	-13.282	-8.990	-4.451	1.00	0.00
ATOM	876	O	ASP	55	-13.280	-8.160	-3.564	1.00	0.00
ATOM	877	N	GLN	56	-12.711	-10.153	-4.292	1.00	0.00
ATOM	878	H	GLN	56	-12.708	-10.848	-5.025	1.00	0.00
ATOM	879	CA	GLN	56	-12.040	-10.483	-3.003	1.00	0.00
ATOM	880	HA	GLN	56	-12.742	-10.387	-2.175	1.00	0.00

ATOM	881	CB	GLN	56	-11.532	-11.925	-3.048	1.00	0.00
ATOM	882	HB2	GLN	56	-10.814	-12.033	-3.862	1.00	0.00
ATOM	883	HB3	GLN	56	-11.047	-12.170	-2.103	1.00	0.00
ATOM	884	CG	GLN	56	-12.709	-12.875	-3.278	1.00	0.00
ATOM	885	HG2	GLN	56	-13.549	-12.599	-2.641	1.00	0.00
ATOM	886	HG3	GLN	56	-13.020	-12.845	-4.322	1.00	0.00
ATOM	887	CD	GLN	56	-12.285	-14.305	-2.936	1.00	0.00
ATOM	888	OE1	GLN	56	-13.068	-15.076	-2.419	1.00	0.00
ATOM	889	NE2	GLN	56	-11.069	-14.694	-3.206	1.00	0.00
ATOM	890	HE21	GLN	56	-10.782	-15.637	-2.983	1.00	0.00
ATOM	891	HE22	GLN	56	-10.420	-14.051	-3.637	1.00	0.00
ATOM	892	C	GLN	56	-10.860	-9.535	-2.782	1.00	0.00
ATOM	893	O	GLN	56	-10.557	-9.155	-1.669	1.00	0.00
ATOM	894	N	GLN	57	-10.192	-9.150	-3.835	1.00	0.00
ATOM	895	H	GLN	57	-10.438	-9.463	-4.763	1.00	0.00
ATOM	896	CA	GLN	57	-9.031	-8.228	-3.685	1.00	0.00
ATOM	897	HA	GLN	57	-8.185	-8.754	-3.241	1.00	0.00
ATOM	898	CB	GLN	57	-8.614	-7.705	-5.061	1.00	0.00
ATOM	899	HB2	GLN	57	-9.460	-7.208	-5.534	1.00	0.00
ATOM	900	HB3	GLN	57	-7.793	-6.997	-4.949	1.00	0.00
ATOM	901	CG	GLN	57	-8.160	-8.877	-5.933	1.00	0.00
ATOM	902	HG2	GLN	57	-7.272	-9.344	-5.507	1.00	0.00

ATOM	903	HG3	GLN	57	-8.955	-9.618	-6.015	1.00	0.00
ATOM	904	CD	GLN	57	-7.820	-8.368	-7.335	1.00	0.00
ATOM	905	OE1	GLN	57	-8.214	-7.283	-7.713	1.00	0.00
ATOM	906	NE2	GLN	57	-7.098	-9.113	-8.128	1.00	0.00
ATOM	907	HE21	GLN	57	-6.869	-8.785	-9.055	1.00	0.00
ATOM	908	HE22	GLN	57	-6.771	-10.015	-7.811	1.00	0.00
ATOM	909	C	GLN	57	-9.426	-7.052	-2.788	1.00	0.00
ATOM	910	O	GLN	57	-8.697	-6.667	-1.896	1.00	0.00
ATOM	911	N	GLN	58	-10.575	-6.477	-3.018	1.00	0.00
ATOM	912	H	GLN	58	-11.187	-6.792	-3.757	1.00	0.00
ATOM	913	CA	GLN	58	-11.014	-5.328	-2.179	1.00	0.00
ATOM	914	HA	GLN	58	-10.432	-4.439	-2.422	1.00	0.00
ATOM	915	CB	GLN	58	-12.492	-5.034	-2.447	1.00	0.00
ATOM	916	HB2	GLN	58	-13.093	-5.895	-2.153	1.00	0.00
ATOM	917	HB3	GLN	58	-12.800	-4.163	-1.870	1.00	0.00
ATOM	918	CG	GLN	58	-12.695	-4.756	-3.938	1.00	0.00
ATOM	919	HG2	GLN	58	-11.912	-4.096	-4.312	1.00	0.00
ATOM	920	HG3	GLN	58	-12.682	-5.689	-4.502	1.00	0.00
ATOM	921	CD	GLN	58	-14.050	-4.076	-4.148	1.00	0.00
ATOM	922	OE1	GLN	58	-14.192	-3.234	-5.012	1.00	0.00
ATOM	923	NE2	GLN	58	-15.058	-4.409	-3.390	1.00	0.00
ATOM	924	HE21	GLN	58	-15.955	-3.965	-3.523	1.00	0.00

ATOM	925	HE22	GLN	58	-14.937	-5.111	-2.673	1.00	0.00
ATOM	926	C	GLN	58	-10.826	-5.675	-0.701	1.00	0.00
ATOM	927	O	GLN	58	-10.394	-4.858	0.088	1.00	0.00
ATOM	928	N	ARG	59	-11.148	-6.881	-0.319	1.00	0.00
ATOM	929	H	ARG	59	-11.508	-7.566	-0.969	1.00	0.00
ATOM	930	CA	ARG	59	-10.990	-7.277	1.108	1.00	0.00
ATOM	931	HA	ARG	59	-11.726	-6.764	1.727	1.00	0.00
ATOM	932	CB	ARG	59	-11.203	-8.786	1.245	1.00	0.00
ATOM	933	HB2	ARG	59	-10.474	-9.315	0.630	1.00	0.00
ATOM	934	HB3	ARG	59	-11.078	-9.079	2.288	1.00	0.00
ATOM	935	CG	ARG	59	-12.616	-9.144	0.781	1.00	0.00
ATOM	936	HG2	ARG	59	-13.345	-8.590	1.372	1.00	0.00
ATOM	937	HG3	ARG	59	-12.730	-8.885	-0.272	1.00	0.00
ATOM	938	CD	ARG	59	-12.847	-10.646	0.964	1.00	0.00
ATOM	939	HD2	ARG	59	-12.058	-11.213	0.470	1.00	0.00
ATOM	940	HD3	ARG	59	-12.866	-10.900	2.024	1.00	0.00
ATOM	941	NE	ARG	59	-14.156	-11.023	0.359	1.00	0.00
ATOM	942	HE	ARG	59	-14.249	-11.201	-0.631	1.00	0.00
ATOM	943	CZ	ARG	59	-15.216	-11.131	1.114	1.00	0.00
ATOM	944	NH1	ARG	59	-15.515	-12.278	1.659	1.00	0.00
ATOM	945	HH11	ARG	59	-14.924	-13.081	1.495	1.00	0.00
ATOM	946	HH12	ARG	59	-16.335	-12.358	2.242	1.00	0.00

ATOM	947	NH2	ARG	59	-15.976	-10.090	1.323	1.00	0.00
ATOM	948	HH21	ARG	59	-15.741	-9.204	0.899	1.00	0.00
ATOM	949	HH22	ARG	59	-16.795	-10.176	1.907	1.00	0.00
ATOM	950	C	ARG	59	-9.585	-6.913	1.587	1.00	0.00
ATOM	951	O	ARG	59	-9.371	-6.620	2.746	1.00	0.00
ATOM	952	N	CYX	60	-8.625	-6.922	0.705	1.00	0.00
ATOM	953	H	CYX	60	-8.792	-7.162	-0.262	1.00	0.00
ATOM	954	CA	CYX	60	-7.237	-6.570	1.115	1.00	0.00
ATOM	955	HA	CYX	60	-6.787	-7.390	1.676	1.00	0.00
ATOM	956	CB	CYX	60	-6.390	-6.309	-0.134	1.00	0.00
ATOM	957	HB2	CYX	60	-6.139	-7.258	-0.609	1.00	0.00
ATOM	958	HB3	CYX	60	-6.953	-5.691	-0.833	1.00	0.00
ATOM	959	SG	CYX	60	-4.832	-5.517	0.338	1.00	0.00
ATOM	960	C	CYX	60	-7.279	-5.310	1.982	1.00	0.00
ATOM	961	O	CYX	60	-7.367	-5.379	3.193	1.00	0.00
ATOM	962	N	CYX	61	-7.217	-4.162	1.370	1.00	0.00
ATOM	963	H	CYX	61	-7.140	-4.099	0.365	1.00	0.00
ATOM	964	CA	CYX	61	-7.255	-2.897	2.157	1.00	0.00
ATOM	965	HA	CYX	61	-6.283	-2.710	2.615	1.00	0.00
ATOM	966	CB	CYX	61	-7.595	-1.726	1.234	1.00	0.00
ATOM	967	HB2	CYX	61	-7.673	-2.083	0.207	1.00	0.00
ATOM	968	HB3	CYX	61	-8.544	-1.287	1.539	1.00	0.00

ATOM	969	SG	CYX	61	-6.261	-0.503	1.297	1.00	0.00
ATOM	970	C	CYX	61	-8.319	-3.014	3.251	1.00	0.00
ATOM	971	O	CYX	61	-8.132	-2.563	4.363	1.00	0.00
ATOM	972	N	ASP	62	-9.433	-3.618	2.942	1.00	0.00
ATOM	973	H	ASP	62	-9.594	-3.996	2.019	1.00	0.00
ATOM	974	CA	ASP	62	-10.509	-3.764	3.964	1.00	0.00
ATOM	975	HA	ASP	62	-10.839	-2.784	4.307	1.00	0.00
ATOM	976	CB	ASP	62	-11.703	-4.494	3.348	1.00	0.00
ATOM	977	HB2	ASP	62	-11.372	-5.444	2.928	1.00	0.00
ATOM	978	HB3	ASP	62	-12.452	-4.679	4.117	1.00	0.00
ATOM	979	CG	ASP	62	-12.312	-3.632	2.240	1.00	0.00
ATOM	980	OD1	ASP	62	-11.958	-2.466	2.162	1.00	0.00
ATOM	981	OD2	ASP	62	-13.121	-4.150	1.488	1.00	0.00
ATOM	982	C	ASP	62	-9.978	-4.567	5.151	1.00	0.00
ATOM	983	O	ASP	62	-10.308	-4.303	6.291	1.00	0.00
ATOM	984	N	GLU	63	-9.154	-5.543	4.895	1.00	0.00
ATOM	985	H	GLU	63	-8.875	-5.770	3.951	1.00	0.00
ATOM	986	CA	GLU	63	-8.597	-6.358	6.010	1.00	0.00
ATOM	987	HA	GLU	63	-9.404	-6.790	6.602	1.00	0.00
ATOM	988	CB	GLU	63	-7.748	-7.495	5.438	1.00	0.00
ATOM	989	HB2	GLU	63	-7.144	-7.118	4.612	1.00	0.00
ATOM	990	HB3	GLU	63	-7.093	-7.887	6.216	1.00	0.00

ATOM	991	CG	GLU	63	-8.663	-8.611	4.932	1.00	0.00
ATOM	992	HG2	GLU	63	-9.340	-8.916	5.730	1.00	0.00
ATOM	993	HG3	GLU	63	-9.243	-8.249	4.083	1.00	0.00
ATOM	994	CD	GLU	63	-7.816	-9.808	4.497	1.00	0.00
ATOM	995	OE1	GLU	63	-6.604	-9.726	4.617	1.00	0.00
ATOM	996	OE2	GLU	63	-8.393	-10.787	4.051	1.00	0.00
ATOM	997	C	GLU	63	-7.729	-5.465	6.897	1.00	0.00
ATOM	998	O	GLU	63	-7.871	-5.443	8.103	1.00	0.00
ATOM	999	N	LEU	64	-6.830	-4.727	6.306	1.00	0.00
ATOM	1000	H	LEU	64	-6.709	-4.743	5.303	1.00	0.00
ATOM	1001	CA	LEU	64	-5.950	-3.833	7.109	1.00	0.00
ATOM	1002	HA	LEU	64	-5.475	-4.393	7.915	1.00	0.00
ATOM	1003	CB	LEU	64	-4.858	-3.251	6.208	1.00	0.00
ATOM	1004	HB2	LEU	64	-5.308	-2.585	5.473	1.00	0.00
ATOM	1005	HB3	LEU	64	-4.145	-2.693	6.816	1.00	0.00
ATOM	1006	CG	LEU	64	-4.132	-4.388	5.487	1.00	0.00
ATOM	1007	HG	LEU	64	-4.823	-4.891	4.810	1.00	0.00
ATOM	1008	CD1	LEU	64	-2.960	-3.816	4.686	1.00	0.00
ATOM	1009	HD11	LEU	64	-2.268	-3.314	5.362	1.00	0.00
ATOM	1010	HD12	LEU	64	-2.441	-4.626	4.172	1.00	0.00
ATOM	1011	HD13	LEU	64	-3.334	-3.102	3.953	1.00	0.00
ATOM	1012	CD2	LEU	64	-3.604	-5.391	6.514	1.00	0.00



ATOM	1013	HD21	LEU	64	-4.437	-5.799	7.086	1.00	0.00
ATOM	1014	HD22	LEU	64	-3.087	-6.201	5.999	1.00	0.00
ATOM	1015	HD23	LEU	64	-2.911	-4.890	7.189	1.00	0.00
ATOM	1016	C	LEU	64	-6.777	-2.690	7.706	1.00	0.00
ATOM	1017	O	LEU	64	-6.266	-1.853	8.422	1.00	0.00
ATOM	1018	N	ASN	65	-8.051	-2.646	7.420	1.00	0.00
ATOM	1019	H	ASN	65	-8.487	-3.338	6.828	1.00	0.00
ATOM	1020	CA	ASN	65	-8.901	-1.554	7.977	1.00	0.00
ATOM	1021	HA	ASN	65	-8.276	-0.742	8.349	1.00	0.00
ATOM	1022	CB	ASN	65	-9.813	-1.005	6.878	1.00	0.00
ATOM	1023	HB2	ASN	65	-10.499	-1.781	6.537	1.00	0.00
ATOM	1024	HB3	ASN	65	-10.383	-0.154	7.250	1.00	0.00
ATOM	1025	CG	ASN	65	-8.967	-0.545	5.692	1.00	0.00
ATOM	1026	OD1	ASN	65	-9.483	-0.558	4.493	1.00	0.00
ATOM	1027	ND2	ASN	65	-7.822	-0.170	5.855	1.00	0.00
ATOM	1028	HD21	ASN	65	-7.274	0.131	5.061	1.00	0.00
ATOM	1029	HD22	ASN	65	-7.424	-0.162	6.783	1.00	0.00
ATOM	1030	C	ASN	65	-9.760	-2.104	9.118	1.00	0.00
ATOM	1031	O	ASN	65	-10.400	-1.363	9.836	1.00	0.00
ATOM	1032	N	GLU	66	-9.782	-3.398	9.290	1.00	0.00
ATOM	1033	H	GLU	66	-9.253	-4.024	8.699	1.00	0.00
ATOM	1034	CA	GLU	66	-10.606	-3.987	10.385	1.00	0.00

ATOM	1035	HA	GLU	66	-10.781	-3.249	11.167	1.00	0.00
ATOM	1036	CB	GLU	66	-11.957	-4.430	9.820	1.00	0.00
ATOM	1037	HB2	GLU	66	-11.806	-5.251	9.119	1.00	0.00
ATOM	1038	HB3	GLU	66	-12.600	-4.763	10.635	1.00	0.00
ATOM	1039	CG	GLU	66	-12.618	-3.256	9.096	1.00	0.00
ATOM	1040	HG2	GLU	66	-12.874	-2.482	9.819	1.00	0.00
ATOM	1041	HG3	GLU	66	-11.928	-2.849	8.357	1.00	0.00
ATOM	1042	CD	GLU	66	-13.889	-3.739	8.395	1.00	0.00
ATOM	1043	OE1	GLU	66	-14.077	-4.943	8.317	1.00	0.00
ATOM	1044	OE2	GLU	66	-14.652	-2.899	7.948	1.00	0.00
ATOM	1045	C	GLU	66	-9.886	-5.198	10.986	1.00	0.00
ATOM	1046	O	GLU	66	-10.007	-5.482	12.160	1.00	0.00
ATOM	1047	N	MET	67	-9.142	-5.917	10.191	1.00	0.00
ATOM	1048	H	MET	67	-9.034	-5.692	9.212	1.00	0.00
ATOM	1049	CA	MET	67	-8.424	-7.110	10.724	1.00	0.00
ATOM	1050	HA	MET	67	-9.089	-7.703	11.352	1.00	0.00
ATOM	1051	CB	MET	67	-7.948	-7.980	9.559	1.00	0.00
ATOM	1052	HB2	MET	67	-8.118	-7.456	8.619	1.00	0.00
ATOM	1053	HB3	MET	67	-6.884	-8.188	9.671	1.00	0.00
ATOM	1054	CG	MET	67	-8.727	-9.297	9.556	1.00	0.00
ATOM	1055	HG2	MET	67	-9.147	-9.480	10.545	1.00	0.00
ATOM	1056	HG3	MET	67	-9.532	-9.248	8.823	1.00	0.00

ATOM	1057	SD	MET	67	-7.612	-10.655	9.123	1.00	0.00
ATOM	1058	CE	MET	67	-7.502	-10.301	7.352	1.00	0.00
ATOM	1059	HE1	MET	67	-7.094	-9.301	7.205	1.00	0.00
ATOM	1060	HE2	MET	67	-6.849	-11.033	6.875	1.00	0.00
ATOM	1061	HE3	MET	67	-8.495	-10.357	6.907	1.00	0.00
ATOM	1062	C	MET	67	-7.219	-6.658	11.548	1.00	0.00
ATOM	1063	O	MET	67	-7.237	-6.688	12.763	1.00	0.00
ATOM	1064	N	GLU	68	-6.171	-6.242	10.897	1.00	0.00
ATOM	1065	H	GLU	68	-6.150	-6.218	9.887	1.00	0.00
ATOM	1066	CA	GLU	68	-4.961	-5.790	11.639	1.00	0.00
ATOM	1067	HA	GLU	68	-4.755	-6.462	12.473	1.00	0.00
ATOM	1068	CB	GLU	68	-3.755	-5.796	10.698	1.00	0.00
ATOM	1069	HB2	GLU	68	-3.846	-4.978	9.984	1.00	0.00
ATOM	1070	HB3	GLU	68	-2.840	-5.672	11.278	1.00	0.00
ATOM	1071	CG	GLU	68	-3.704	-7.126	9.944	1.00	0.00
ATOM	1072	HG2	GLU	68	-3.499	-7.935	10.646	1.00	0.00
ATOM	1073	HG3	GLU	68	-4.662	-7.304	9.456	1.00	0.00
ATOM	1074	CD	GLU	68	-2.597	-7.074	8.889	1.00	0.00
ATOM	1075	OE1	GLU	68	-2.028	-6.010	8.707	1.00	0.00
ATOM	1076	OE2	GLU	68	-2.336	-8.100	8.281	1.00	0.00
ATOM	1077	C	GLU	68	-5.184	-4.374	12.175	1.00	0.00
ATOM	1078	O	GLU	68	-4.302	-3.776	12.758	1.00	0.00

ATOM	1079	N	ASN	69	-6.356	-3.833	11.984	1.00	0.00
ATOM	1080	H	ASN	69	-7.096	-4.323	11.502	1.00	0.00
ATOM	1081	CA	ASN	69	-6.629	-2.455	12.484	1.00	0.00
ATOM	1082	HA	ASN	69	-7.553	-2.072	12.052	1.00	0.00
ATOM	1083	CB	ASN	69	-6.777	-2.486	14.007	1.00	0.00
ATOM	1084	HB2	ASN	69	-5.843	-2.805	14.471	1.00	0.00
ATOM	1085	HB3	ASN	69	-7.049	-1.499	14.380	1.00	0.00
ATOM	1086	CG	ASN	69	-7.877	-3.475	14.393	1.00	0.00
ATOM	1087	OD1	ASN	69	-8.812	-3.687	13.645	1.00	0.00
ATOM	1088	ND2	ASN	69	-7.806	-4.096	15.539	1.00	0.00
ATOM	1089	HD21	ASN	69	-8.529	-4.751	15.801	1.00	0.00
ATOM	1090	HD22	ASN	69	-7.028	-3.919	16.159	1.00	0.00
ATOM	1091	C	ASN	69	-5.466	-1.537	12.101	1.00	0.00
ATOM	1092	O	ASN	69	-5.209	-0.543	12.751	1.00	0.00
ATOM	1093	N	THR	70	-4.763	-1.864	11.053	1.00	0.00
ATOM	1094	H	THR	70	-4.974	-2.690	10.510	1.00	0.00
ATOM	1095	CA	THR	70	-3.615	-1.012	10.627	1.00	0.00
ATOM	1096	HA	THR	70	-2.748	-1.196	11.261	1.00	0.00
ATOM	1097	CB	THR	70	-3.242	-1.346	9.180	1.00	0.00
ATOM	1098	HB	THR	70	-2.233	-0.988	8.974	1.00	0.00
ATOM	1099	CG2	THR	70	-3.297	-2.861	8.972	1.00	0.00
ATOM	1100	HG21	THR	70	-4.305	-3.221	9.178	1.00	0.00

ATOM	1101	HG22	THR	70	-3.031	-3.097	7.941	1.00	0.00
ATOM	1102	HG23	THR	70	-2.593	-3.347	9.648	1.00	0.00
ATOM	1103	OG1	THR	70	-4.156	-0.711	8.297	1.00	0.00
ATOM	1104	HG1	THR	70	-3.922	-0.921	7.390	1.00	0.00
ATOM	1105	C	THR	70	-4.010	0.463	10.724	1.00	0.00
ATOM	1106	O	THR	70	-5.176	0.805	10.731	1.00	0.00
ATOM	1107	N	GLN	71	-3.047	1.342	10.800	1.00	0.00
ATOM	1108	H	GLN	71	-2.075	1.066	10.795	1.00	0.00
ATOM	1109	CA	GLN	71	-3.370	2.794	10.897	1.00	0.00
ATOM	1110	HA	GLN	71	-3.989	3.100	10.054	1.00	0.00
ATOM	1111	CB	GLN	71	-4.140	3.060	12.191	1.00	0.00
ATOM	1112	HB2	GLN	71	-5.080	2.509	12.175	1.00	0.00
ATOM	1113	HB3	GLN	71	-3.543	2.735	13.043	1.00	0.00
ATOM	1114	CG	GLN	71	-4.429	4.559	12.312	1.00	0.00
ATOM	1115	HG2	GLN	71	-3.517	5.133	12.149	1.00	0.00
ATOM	1116	HG3	GLN	71	-5.182	4.859	11.583	1.00	0.00
ATOM	1117	CD	GLN	71	-4.957	4.866	13.716	1.00	0.00
ATOM	1118	OE1	GLN	71	-4.356	4.486	14.701	1.00	0.00
ATOM	1119	NE2	GLN	71	-6.065	5.543	13.848	1.00	0.00
ATOM	1120	HE21	GLN	71	-6.420	5.749	14.771	1.00	0.00
ATOM	1121	HE22	GLN	71	-6.562	5.857	13.027	1.00	0.00
ATOM	1122	C	GLN	71	-2.073	3.607	10.899	1.00	0.00

ATOM	1123	O	GLN	71	-2.017	4.704	10.379	1.00	0.00
ATOM	1124	N	GLY	72	-1.031	3.081	11.484	1.00	0.00
ATOM	1125	H	GLY	72	-1.069	2.170	11.920	1.00	0.00
ATOM	1126	CA	GLY	72	0.258	3.828	11.520	1.00	0.00
ATOM	1127	HA2	GLY	72	0.100	4.856	11.194	1.00	0.00
ATOM	1128	HA3	GLY	72	0.660	3.825	12.533	1.00	0.00
ATOM	1129	C	GLY	72	1.266	3.158	10.583	1.00	0.00
ATOM	1130	O	GLY	72	1.128	2.003	10.230	1.00	0.00
ATOM	1131	N	CYX	73	2.280	3.873	10.180	1.00	0.00
ATOM	1132	H	CYX	73	2.400	4.833	10.470	1.00	0.00
ATOM	1133	CA	CYX	73	3.296	3.279	9.267	1.00	0.00
ATOM	1134	HA	CYX	73	4.118	3.977	9.110	1.00	0.00
ATOM	1135	CB	CYX	73	3.855	1.998	9.889	1.00	0.00
ATOM	1136	HB2	CYX	73	3.250	1.717	10.751	1.00	0.00
ATOM	1137	HB3	CYX	73	3.831	1.195	9.152	1.00	0.00
ATOM	1138	SG	CYX	73	5.545	2.293	10.468	1.00	0.00
ATOM	1139	C	CYX	73	2.645	2.952	7.920	1.00	0.00
ATOM	1140	O	CYX	73	3.230	2.300	7.078	1.00	0.00
ATOM	1141	N	MET	74	1.438	3.401	7.711	1.00	0.00
ATOM	1142	H	MET	74	0.947	3.944	8.406	1.00	0.00
ATOM	1143	CA	MET	74	0.750	3.116	6.421	1.00	0.00
ATOM	1144	HA	MET	74	0.386	2.088	6.405	1.00	0.00

ATOM	1145	CB	MET	74	-0.444	4.061	6.260	1.00	0.00
ATOM	1146	HB2	MET	74	-0.087	5.086	6.163	1.00	0.00
ATOM	1147	HB3	MET	74	-1.008	3.787	5.368	1.00	0.00
ATOM	1148	CG	MET	74	-1.348	3.949	7.490	1.00	0.00
ATOM	1149	HG2	MET	74	-1.489	2.899	7.749	1.00	0.00
ATOM	1150	HG3	MET	74	-0.893	4.472	8.331	1.00	0.00
ATOM	1151	SD	MET	74	-2.957	4.694	7.126	1.00	0.00
ATOM	1152	CE	MET	74	-3.827	3.164	6.704	1.00	0.00
ATOM	1153	HE1	MET	74	-3.811	2.488	7.560	1.00	0.00
ATOM	1154	HE2	MET	74	-4.859	3.393	6.441	1.00	0.00
ATOM	1155	HE3	MET	74	-3.334	2.687	5.857	1.00	0.00
ATOM	1156	C	MET	74	1.731	3.329	5.266	1.00	0.00
ATOM	1157	O	MET	74	1.957	2.447	4.461	1.00	0.00
ATOM	1158	N	CYX	75	2.317	4.492	5.179	1.00	0.00
ATOM	1159	H	CYX	75	2.136	5.231	5.843	1.00	0.00
ATOM	1160	CA	CYX	75	3.283	4.755	4.076	1.00	0.00
ATOM	1161	HA	CYX	75	2.754	4.878	3.131	1.00	0.00
ATOM	1162	CB	CYX	75	4.059	6.040	4.373	1.00	0.00
ATOM	1163	HB2	CYX	75	3.366	6.818	4.691	1.00	0.00
ATOM	1164	HB3	CYX	75	4.783	5.852	5.166	1.00	0.00
ATOM	1165	SG	CYX	75	4.881	6.609	2.865	1.00	0.00
ATOM	1166	C	CYX	75	4.259	3.584	3.963	1.00	0.00

ATOM	1167	O	CYX	75	4.468	3.038	2.897	1.00	0.00
ATOM	1168	N	GLU	76	4.858	3.188	5.054	1.00	0.00
ATOM	1169	H	GLU	76	4.692	3.633	5.945	1.00	0.00
ATOM	1170	CA	GLU	76	5.816	2.048	5.002	1.00	0.00
ATOM	1171	HA	GLU	76	6.659	2.292	4.356	1.00	0.00
ATOM	1172	CB	GLU	76	6.346	1.758	6.408	1.00	0.00
ATOM	1173	HB2	GLU	76	5.519	1.470	7.057	1.00	0.00
ATOM	1174	HB3	GLU	76	7.071	0.945	6.363	1.00	0.00
ATOM	1175	CG	GLU	76	7.020	3.012	6.967	1.00	0.00
ATOM	1176	HG2	GLU	76	7.772	3.364	6.261	1.00	0.00
ATOM	1177	HG3	GLU	76	6.272	3.789	7.120	1.00	0.00
ATOM	1178	CD	GLU	76	7.691	2.681	8.302	1.00	0.00
ATOM	1179	OE1	GLU	76	7.684	1.518	8.674	1.00	0.00
ATOM	1180	OE2	GLU	76	8.199	3.594	8.930	1.00	0.00
ATOM	1181	C	GLU	76	5.095	0.812	4.461	1.00	0.00
ATOM	1182	O	GLU	76	5.711	-0.129	3.999	1.00	0.00
ATOM	1183	N	ALA	77	3.790	0.813	4.506	1.00	0.00
ATOM	1184	H	ALA	77	3.272	1.591	4.887	1.00	0.00
ATOM	1185	CA	ALA	77	3.028	-0.356	3.987	1.00	0.00
ATOM	1186	HA	ALA	77	3.497	-1.304	4.254	1.00	0.00
ATOM	1187	CB	ALA	77	1.607	-0.336	4.555	1.00	0.00
ATOM	1188	HB1	ALA	77	1.122	0.602	4.288	1.00	0.00



ATOM	1189	HB2 ALA	77	1.039	-1.170	4.142	1.00	0.00
ATOM	1190	HB3 ALA	77	1.648	-0.428	5.640	1.00	0.00
ATOM	1191	C ALA	77	2.972	-0.277	2.462	1.00	0.00
ATOM	1192	O ALA	77	3.430	-1.164	1.768	1.00	0.00
ATOM	1193	N LEU	78	2.422	0.780	1.932	1.00	0.00
ATOM	1194	H LEU	78	2.040	1.523	2.499	1.00	0.00
ATOM	1195	CA LEU	78	2.350	0.914	0.451	1.00	0.00
ATOM	1196	HA LEU	78	1.704	0.141	0.034	1.00	0.00
ATOM	1197	CB LEU	78	1.774	2.283	0.085	1.00	0.00
ATOM	1198	HB2 LEU	78	0.816	2.420	0.586	1.00	0.00
ATOM	1199	HB3 LEU	78	2.464	3.065	0.402	1.00	0.00
ATOM	1200	CG LEU	78	1.574	2.363	-1.428	1.00	0.00
ATOM	1201	HG LEU	78	2.484	2.038	-1.933	1.00	0.00
ATOM	1202	CD1 LEU	78	0.412	1.456	-1.838	1.00	0.00
ATOM	1203	HD11 LEU	78	-0.498	1.780	-1.334	1.00	0.00
ATOM	1204	HD12 LEU	78	0.269	1.513	-2.917	1.00	0.00
ATOM	1205	HD13 LEU	78	0.636	0.427	-1.555	1.00	0.00
ATOM	1206	CD2 LEU	78	1.259	3.806	-1.827	1.00	0.00
ATOM	1207	HD21 LEU	78	2.087	4.452	-1.536	1.00	0.00
ATOM	1208	HD22 LEU	78	1.117	3.862	-2.906	1.00	0.00
ATOM	1209	HD23 LEU	78	0.349	4.132	-1.323	1.00	0.00
ATOM	1210	C LEU	78	3.760	0.781	-0.125	1.00	0.00

ATOM	1211	O	LEU	78	3.983	0.081	-1.092	1.00	0.00
ATOM	1212	N	GLN	79	4.714	1.446	0.468	1.00	0.00
ATOM	1213	H	GLN	79	4.534	2.029	1.273	1.00	0.00
ATOM	1214	CA	GLN	79	6.110	1.355	-0.039	1.00	0.00
ATOM	1215	HA	GLN	79	6.181	1.801	-1.031	1.00	0.00
ATOM	1216	CB	GLN	79	7.050	2.110	0.905	1.00	0.00
ATOM	1217	HB2	GLN	79	6.921	1.737	1.921	1.00	0.00
ATOM	1218	HB3	GLN	79	8.082	1.956	0.590	1.00	0.00
ATOM	1219	CG	GLN	79	6.722	3.604	0.864	1.00	0.00
ATOM	1220	HG2	GLN	79	6.893	4.000	-0.137	1.00	0.00
ATOM	1221	HG3	GLN	79	5.684	3.772	1.148	1.00	0.00
ATOM	1222	CD	GLN	79	7.626	4.351	1.847	1.00	0.00
ATOM	1223	OE1	GLN	79	7.849	5.625	1.671	1.00	0.00
ATOM	1224	NE2	GLN	79	8.136	3.769	2.784	1.00	0.00
ATOM	1225	HE21	GLN	79	8.731	4.274	3.425	1.00	0.00
ATOM	1226	HE22	GLN	79	7.963	2.782	2.917	1.00	0.00
ATOM	1227	C	GLN	79	6.525	-0.113	-0.105	1.00	0.00
ATOM	1228	O	GLN	79	7.089	-0.567	-1.080	1.00	0.00
ATOM	1229	N	GLN	80	6.242	-0.863	0.924	1.00	0.00
ATOM	1230	H	GLN	80	5.770	-0.496	1.737	1.00	0.00
ATOM	1231	CA	GLN	80	6.615	-2.305	0.916	1.00	0.00
ATOM	1232	HA	GLN	80	7.700	-2.414	0.897	1.00	0.00

ATOM	1233	CB	GLN	80	6.078	-2.981	2.179	1.00	0.00
ATOM	1234	HB2	GLN	80	6.402	-2.422	3.057	1.00	0.00
ATOM	1235	HB3	GLN	80	4.989	-3.004	2.145	1.00	0.00
ATOM	1236	CG	GLN	80	6.615	-4.411	2.259	1.00	0.00
ATOM	1237	HG2	GLN	80	6.155	-4.941	3.093	1.00	0.00
ATOM	1238	HG3	GLN	80	6.410	-4.946	1.332	1.00	0.00
ATOM	1239	CD	GLN	80	8.129	-4.376	2.478	1.00	0.00
ATOM	1240	OE1	GLN	80	8.616	-3.649	3.321	1.00	0.00
ATOM	1241	NE2	GLN	80	8.899	-5.136	1.748	1.00	0.00
ATOM	1242	HE21	GLN	80	9.899	-5.119	1.887	1.00	0.00
ATOM	1243	HE22	GLN	80	8.491	-5.739	1.047	1.00	0.00
ATOM	1244	C	GLN	80	6.005	-2.972	-0.318	1.00	0.00
ATOM	1245	O	GLN	80	6.670	-3.691	-1.038	1.00	0.00
ATOM	1246	N	ILE	81	4.748	-2.733	-0.571	1.00	0.00
ATOM	1247	H	ILE	81	4.190	-2.135	0.021	1.00	0.00
ATOM	1248	CA	ILE	81	4.101	-3.348	-1.763	1.00	0.00
ATOM	1249	HA	ILE	81	3.970	-4.417	-1.595	1.00	0.00
ATOM	1250	CB	ILE	81	2.736	-2.697	-1.993	1.00	0.00
ATOM	1251	HB	ILE	81	2.860	-1.619	-2.089	1.00	0.00
ATOM	1252	CG2	ILE	81	2.113	-3.254	-3.274	1.00	0.00
ATOM	1253	HG21	ILE	81	1.989	-4.333	-3.179	1.00	0.00
ATOM	1254	HG22	ILE	81	1.141	-2.790	-3.437	1.00	0.00

ATOM	1255	HG23	ILE	81	2.765	-3.038	-4.120	1.00	0.00
ATOM	1256	CG1	ILE	81	1.817	-3.001	-0.808	1.00	0.00
ATOM	1257	HG12	ILE	81	1.775	-4.079	-0.649	1.00	0.00
ATOM	1258	HG13	ILE	81	2.207	-2.517	0.087	1.00	0.00
ATOM	1259	CD1	ILE	81	0.411	-2.473	-1.102	1.00	0.00
ATOM	1260	HD11	ILE	81	0.021	-2.957	-1.997	1.00	0.00
ATOM	1261	HD12	ILE	81	-0.243	-2.690	-0.258	1.00	0.00
ATOM	1262	HD13	ILE	81	0.453	-1.396	-1.261	1.00	0.00
ATOM	1263	C	ILE	81	4.991	-3.121	-2.985	1.00	0.00
ATOM	1264	O	ILE	81	5.483	-4.054	-3.590	1.00	0.00
ATOM	1265	N	MET	82	5.208	-1.887	-3.350	1.00	0.00
ATOM	1266	H	MET	82	4.804	-1.108	-2.851	1.00	0.00
ATOM	1267	CA	MET	82	6.072	-1.600	-4.528	1.00	0.00
ATOM	1268	HA	MET	82	5.542	-1.830	-5.452	1.00	0.00
ATOM	1269	CB	MET	82	6.446	-0.116	-4.535	1.00	0.00
ATOM	1270	HB2	MET	82	7.101	0.098	-3.690	1.00	0.00
ATOM	1271	HB3	MET	82	6.963	0.124	-5.464	1.00	0.00
ATOM	1272	CG	MET	82	5.177	0.731	-4.424	1.00	0.00
ATOM	1273	HG2	MET	82	4.734	0.605	-3.436	1.00	0.00
ATOM	1274	HG3	MET	82	5.420	1.781	-4.582	1.00	0.00
ATOM	1275	SD	MET	82	3.988	0.200	-5.681	1.00	0.00
ATOM	1276	CE	MET	82	4.973	0.656	-7.130	1.00	0.00

ATOM	1277	HE1	MET	82	5.914	0.105	-7.119	1.00	0.00
ATOM	1278	HE2	MET	82	4.421	0.411	-8.037	1.00	0.00
ATOM	1279	HE3	MET	82	5.179	1.726	-7.108	1.00	0.00
ATOM	1280	C	MET	82	7.342	-2.445	-4.442	1.00	0.00
ATOM	1281	O	MET	82	7.703	-3.140	-5.369	1.00	0.00
ATOM	1282	N	GLU	83	8.018	-2.396	-3.330	1.00	0.00
ATOM	1283	H	GLU	83	7.722	-1.824	-2.553	1.00	0.00
ATOM	1284	CA	GLU	83	9.263	-3.199	-3.181	1.00	0.00
ATOM	1285	HA	GLU	83	9.942	-3.003	-4.011	1.00	0.00
ATOM	1286	CB	GLU	83	9.964	-2.816	-1.875	1.00	0.00
ATOM	1287	HB2	GLU	83	9.271	-2.934	-1.042	1.00	0.00
ATOM	1288	HB3	GLU	83	10.828	-3.463	-1.722	1.00	0.00
ATOM	1289	CG	GLU	83	10.425	-1.359	-1.953	1.00	0.00
ATOM	1290	HG2	GLU	83	11.056	-1.223	-2.832	1.00	0.00
ATOM	1291	HG3	GLU	83	9.555	-0.707	-2.026	1.00	0.00
ATOM	1292	CD	GLU	83	11.221	-1.008	-0.695	1.00	0.00
ATOM	1293	OE1	GLU	83	11.289	-1.841	0.192	1.00	0.00
ATOM	1294	OE2	GLU	83	11.751	0.090	-0.641	1.00	0.00
ATOM	1295	C	GLU	83	8.903	-4.685	-3.152	1.00	0.00
ATOM	1296	O	GLU	83	9.751	-5.543	-3.294	1.00	0.00
ATOM	1297	N	ASN	84	7.648	-4.992	-2.973	1.00	0.00
ATOM	1298	H	ASN	84	6.940	-4.283	-2.854	1.00	0.00

ATOM	1299	CA	ASN	84	7.229	-6.420	-2.939	1.00	0.00
ATOM	1300	HA	ASN	84	7.967	-7.018	-2.403	1.00	0.00
ATOM	1301	CB	ASN	84	5.884	-6.542	-2.219	1.00	0.00
ATOM	1302	HB2	ASN	84	5.927	-6.043	-1.251	1.00	0.00
ATOM	1303	HB3	ASN	84	5.091	-6.099	-2.821	1.00	0.00
ATOM	1304	CG	ASN	84	5.559	-8.019	-1.993	1.00	0.00
ATOM	1305	OD1	ASN	84	6.180	-8.673	-1.179	1.00	0.00
ATOM	1306	ND2	ASN	84	4.604	-8.578	-2.685	1.00	0.00
ATOM	1307	HD21	ASN	84	4.384	-9.554	-2.541	1.00	0.00
ATOM	1308	HD22	ASN	84	4.089	-8.033	-3.362	1.00	0.00
ATOM	1309	C	ASN	84	7.092	-6.943	-4.370	1.00	0.00
ATOM	1310	O	ASN	84	7.141	-8.133	-4.612	1.00	0.00
ATOM	1311	N	GLN	85	6.919	-6.065	-5.321	1.00	0.00
ATOM	1312	H	GLN	85	6.874	-5.074	-5.131	1.00	0.00
ATOM	1313	CA	GLN	85	6.781	-6.521	-6.733	1.00	0.00
ATOM	1314	HA	GLN	85	7.587	-7.209	-6.990	1.00	0.00
ATOM	1315	CB	GLN	85	5.445	-7.248	-6.905	1.00	0.00
ATOM	1316	HB2	GLN	85	5.325	-7.983	-6.109	1.00	0.00
ATOM	1317	HB3	GLN	85	4.629	-6.527	-6.859	1.00	0.00
ATOM	1318	CG	GLN	85	5.422	-7.957	-8.261	1.00	0.00
ATOM	1319	HG2	GLN	85	5.528	-7.233	-9.069	1.00	0.00
ATOM	1320	HG3	GLN	85	6.230	-8.687	-8.321	1.00	0.00

ATOM	1321	CD	GLN	85	4.089	-8.688	-8.431	1.00	0.00
ATOM	1322	OE1	GLN	85	3.387	-8.928	-7.469	1.00	0.00
ATOM	1323	NE2	GLN	85	3.708	-9.055	-9.624	1.00	0.00
ATOM	1324	HE21	GLN	85	2.829	-9.538	-9.744	1.00	0.00
ATOM	1325	HE22	GLN	85	4.294	-8.855	-10.422	1.00	0.00
ATOM	1326	C	GLN	85	6.827	-5.314	-7.676	1.00	0.00
ATOM	1327	O	GLN	85	6.009	-5.179	-8.563	1.00	0.00
ATOM	1328	N	CYX	86	7.781	-4.439	-7.497	1.00	0.00
ATOM	1329	H	CYX	86	8.468	-4.541	-6.763	1.00	0.00
ATOM	1330	CA	CYX	86	7.874	-3.250	-8.393	1.00	0.00
ATOM	1331	HA	CYX	86	6.892	-3.007	-8.799	1.00	0.00
ATOM	1332	CB	CYX	86	8.387	-2.046	-7.600	1.00	0.00
ATOM	1333	HB2	CYX	86	8.591	-1.221	-8.283	1.00	0.00
ATOM	1334	HB3	CYX	86	7.633	-1.740	-6.876	1.00	0.00
ATOM	1335	SG	CYX	86	9.939	-2.480	-6.776	1.00	0.00
ATOM	1336	C	CYX	86	8.840	-3.552	-9.539	1.00	0.00
ATOM	1337	O	CYX	86	8.953	-2.797	-10.484	1.00	0.00
ATOM	1338	N	ASP	87	9.542	-4.651	-9.462	1.00	0.00
ATOM	1339	H	ASP	87	9.455	-5.283	-8.679	1.00	0.00
ATOM	1340	CA	ASP	87	10.501	-5.000	-10.547	1.00	0.00
ATOM	1341	HA	ASP	87	11.389	-4.370	-10.485	1.00	0.00
ATOM	1342	CB	ASP	87	10.928	-6.462	-10.398	1.00	0.00

ATOM	1343	HB2	ASP	87	10.057	-7.074	-10.162	1.00	0.00
ATOM	1344	HB3	ASP	87	11.372	-6.808	-11.332	1.00	0.00
ATOM	1345	CG	ASP	87	11.955	-6.582	-9.270	1.00	0.00
ATOM	1346	OD1	ASP	87	12.388	-5.553	-8.777	1.00	0.00
ATOM	1347	OD2	ASP	87	12.291	-7.700	-8.918	1.00	0.00
ATOM	1348	C	ASP	87	9.829	-4.802	-11.907	1.00	0.00
ATOM	1349	O	ASP	87	10.387	-4.202	-12.805	1.00	0.00
ATOM	1350	N	ARG	88	8.635	-5.304	-12.068	1.00	0.00
ATOM	1351	H	ARG	88	8.166	-5.805	-11.327	1.00	0.00
ATOM	1352	CA	ARG	88	7.930	-5.146	-13.371	1.00	0.00
ATOM	1353	HA	ARG	88	8.533	-5.560	-14.180	1.00	0.00
ATOM	1354	CB	ARG	88	6.596	-5.895	-13.323	1.00	0.00
ATOM	1355	HB2	ARG	88	6.011	-5.542	-12.474	1.00	0.00
ATOM	1356	HB3	ARG	88	6.044	-5.714	-14.245	1.00	0.00
ATOM	1357	CG	ARG	88	6.858	-7.395	-13.172	1.00	0.00
ATOM	1358	HG2	ARG	88	7.448	-7.748	-14.018	1.00	0.00
ATOM	1359	HG3	ARG	88	7.405	-7.577	-12.247	1.00	0.00
ATOM	1360	CD	ARG	88	5.526	-8.145	-13.132	1.00	0.00
ATOM	1361	HD2	ARG	88	4.865	-7.700	-12.389	1.00	0.00
ATOM	1362	HD3	ARG	88	5.046	-8.113	-14.110	1.00	0.00
ATOM	1363	NE	ARG	88	5.766	-9.568	-12.765	1.00	0.00
ATOM	1364	HE	ARG	88	5.478	-9.939	-11.870	1.00	0.00



ATOM	1365	CZ	ARG	88	6.360	-10.369	-13.609	1.00	0.00
ATOM	1366	NH1	ARG	88	5.653	-11.180	-14.346	1.00	0.00
ATOM	1367	HH11	ARG	88	4.647	-11.187	-14.262	1.00	0.00
ATOM	1368	HH12	ARG	88	6.115	-11.798	-14.998	1.00	0.00
ATOM	1369	NH2	ARG	88	7.661	-10.356	-13.715	1.00	0.00
ATOM	1370	HH21	ARG	88	8.205	-9.726	-13.143	1.00	0.00
ATOM	1371	HH22	ARG	88	8.118	-10.977	-14.368	1.00	0.00
ATOM	1372	C	ARG	88	7.671	-3.661	-13.639	1.00	0.00
ATOM	1373	O	ARG	88	7.315	-3.272	-14.733	1.00	0.00
ATOM	1374	N	LEU	89	7.850	-2.830	-12.650	1.00	0.00
ATOM	1375	H	LEU	89	8.146	-3.146	-11.737	1.00	0.00
ATOM	1376	CA	LEU	89	7.615	-1.372	-12.852	1.00	0.00
ATOM	1377	HA	LEU	89	6.588	-1.196	-13.170	1.00	0.00
ATOM	1378	CB	LEU	89	7.855	-0.627	-11.537	1.00	0.00
ATOM	1379	HB2	LEU	89	7.368	-1.161	-10.721	1.00	0.00
ATOM	1380	HB3	LEU	89	8.926	-0.568	-11.344	1.00	0.00
ATOM	1381	CG	LEU	89	7.277	0.785	-11.639	1.00	0.00
ATOM	1382	HG	LEU	89	7.691	1.285	-12.515	1.00	0.00
ATOM	1383	CD1	LEU	89	5.755	0.704	-11.770	1.00	0.00
ATOM	1384	HD11	LEU	89	5.341	0.204	-10.895	1.00	0.00
ATOM	1385	HD12	LEU	89	5.342	1.710	-11.843	1.00	0.00
ATOM	1386	HD13	LEU	89	5.497	0.140	-12.666	1.00	0.00

ATOM	1387	CD2	LEU	89	7.636	1.578	-10.382	1.00	0.00
ATOM	1388	HD21	LEU	89	8.720	1.636	-10.286	1.00	0.00
ATOM	1389	HD22	LEU	89	7.224	2.584	-10.456	1.00	0.00
ATOM	1390	HD23	LEU	89	7.221	1.079	-9.506	1.00	0.00
ATOM	1391	C	LEU	89	8.575	-0.843	-13.920	1.00	0.00
ATOM	1392	O	LEU	89	8.392	0.232	-14.455	1.00	0.00
ATOM	1393	N	GLN	90	9.598	-1.591	-14.233	1.00	0.00
ATOM	1394	H	GLN	90	9.757	-2.487	-13.793	1.00	0.00
ATOM	1395	CA	GLN	90	10.568	-1.130	-15.266	1.00	0.00
ATOM	1396	HA	GLN	90	11.211	-0.349	-14.860	1.00	0.00
ATOM	1397	CB	GLN	90	11.444	-2.306	-15.703	1.00	0.00
ATOM	1398	HB2	GLN	90	10.816	-3.175	-15.900	1.00	0.00
ATOM	1399	HB3	GLN	90	11.987	-2.039	-16.610	1.00	0.00
ATOM	1400	CG	GLN	90	12.442	-2.640	-14.591	1.00	0.00
ATOM	1401	HG2	GLN	90	13.014	-1.753	-14.318	1.00	0.00
ATOM	1402	HG3	GLN	90	11.920	-3.020	-13.713	1.00	0.00
ATOM	1403	CD	GLN	90	13.413	-3.714	-15.085	1.00	0.00
ATOM	1404	OE1	GLN	90	13.188	-4.328	-16.109	1.00	0.00
ATOM	1405	NE2	GLN	90	14.490	-3.970	-14.394	1.00	0.00
ATOM	1406	HE21	GLN	90	15.136	-4.678	-14.714	1.00	0.00
ATOM	1407	HE22	GLN	90	14.673	-3.460	-13.542	1.00	0.00
ATOM	1408	C	GLN	90	9.806	-0.587	-16.475	1.00	0.00

ATOM	1409	O	GLN	90	10.304	0.234	-17.219	1.00	0.00
ATOM	1410	N	ASP	91	8.598	-1.039	-16.679	1.00	0.00
ATOM	1411	H	ASP	91	8.177	-1.721	-16.064	1.00	0.00
ATOM	1412	CA	ASP	91	7.804	-0.550	-17.840	1.00	0.00
ATOM	1413	HA	ASP	91	8.363	-0.688	-18.766	1.00	0.00
ATOM	1414	CB	ASP	91	6.499	-1.341	-17.935	1.00	0.00
ATOM	1415	HB2	ASP	91	5.966	-1.278	-16.986	1.00	0.00
ATOM	1416	HB3	ASP	91	5.878	-0.925	-18.728	1.00	0.00
ATOM	1417	CG	ASP	91	6.811	-2.805	-18.247	1.00	0.00
ATOM	1418	OD1	ASP	91	7.941	-3.084	-18.614	1.00	0.00
ATOM	1419	OD2	ASP	91	5.916	-3.624	-18.115	1.00	0.00
ATOM	1420	C	ASP	91	7.487	0.935	-17.651	1.00	0.00
ATOM	1421	O	ASP	91	7.217	1.389	-16.556	1.00	0.00
ATOM	1422	N	ARG	92	7.520	1.698	-18.710	1.00	0.00
ATOM	1423	H	ARG	92	7.746	1.329	-19.623	1.00	0.00
ATOM	1424	CA	ARG	92	7.221	3.153	-18.590	1.00	0.00
ATOM	1425	HA	ARG	92	7.797	3.590	-17.774	1.00	0.00
ATOM	1426	CB	ARG	92	7.600	3.862	-19.891	1.00	0.00
ATOM	1427	HB2	ARG	92	8.676	3.783	-20.047	1.00	0.00
ATOM	1428	HB3	ARG	92	7.078	3.393	-20.725	1.00	0.00
ATOM	1429	CG	ARG	92	7.204	5.336	-19.805	1.00	0.00
ATOM	1430	HG2	ARG	92	6.161	5.414	-19.499	1.00	0.00

ATOM	1431	HG3 ARG	92	7.836	5.840	-19.074	1.00	0.00
ATOM	1432	CD ARG	92	7.384	5.994	-21.174	1.00	0.00
ATOM	1433	HD2 ARG	92	6.672	5.580	-21.888	1.00	0.00
ATOM	1434	HD3 ARG	92	7.236	7.071	-21.097	1.00	0.00
ATOM	1435	NE ARG	92	8.764	5.736	-21.672	1.00	0.00
ATOM	1436	HE ARG	92	9.362	5.047	-21.237	1.00	0.00
ATOM	1437	CZ ARG	92	9.225	6.404	-22.693	1.00	0.00
ATOM	1438	NH1 ARG	92	8.960	7.676	-22.813	1.00	0.00
ATOM	1439	HH11 ARG	92	8.398	8.139	-22.114	1.00	0.00
ATOM	1440	HH12 ARG	92	9.319	8.190	-23.605	1.00	0.00
ATOM	1441	NH2 ARG	92	9.953	5.801	-23.593	1.00	0.00
ATOM	1442	HH21 ARG	92	10.158	4.816	-23.496	1.00	0.00
ATOM	1443	HH22 ARG	92	10.309	6.321	-24.382	1.00	0.00
ATOM	1444	C ARG	92	5.727	3.346	-18.321	1.00	0.00
ATOM	1445	O ARG	92	5.294	4.396	-17.888	1.00	0.00
ATOM	1446	N GLN	93	4.934	2.342	-18.575	1.00	0.00
ATOM	1447	H GLN	93	5.286	1.466	-18.936	1.00	0.00
ATOM	1448	CA GLN	93	3.470	2.469	-18.335	1.00	0.00
ATOM	1449	HA GLN	93	3.113	3.440	-18.675	1.00	0.00
ATOM	1450	CB GLN	93	2.731	1.376	-19.113	1.00	0.00
ATOM	1451	HB2 GLN	93	3.091	1.355	-20.142	1.00	0.00
ATOM	1452	HB3 GLN	93	2.915	0.408	-18.645	1.00	0.00

ATOM	1453	CG	GLN	93	1.229	1.670	-19.104	1.00	0.00
ATOM	1454	HG2	GLN	93	0.831	1.580	-18.093	1.00	0.00
ATOM	1455	HG3	GLN	93	1.039	2.674	-19.481	1.00	0.00
ATOM	1456	CD	GLN	93	0.508	0.665	-20.005	1.00	0.00
ATOM	1457	OE1	GLN	93	1.137	-0.073	-20.737	1.00	0.00
ATOM	1458	NE2	GLN	93	-0.795	0.604	-19.981	1.00	0.00
ATOM	1459	HE21	GLN	93	-1.277	-0.057	-20.573	1.00	0.00
ATOM	1460	HE22	GLN	93	-1.315	1.218	-19.371	1.00	0.00
ATOM	1461	C	GLN	93	3.179	2.317	-16.840	1.00	0.00
ATOM	1462	O	GLN	93	2.503	3.133	-16.245	1.00	0.00
ATOM	1463	N	MET	94	3.683	1.280	-16.229	1.00	0.00
ATOM	1464	H	MET	94	4.248	0.599	-16.717	1.00	0.00
ATOM	1465	CA	MET	94	3.433	1.077	-14.774	1.00	0.00
ATOM	1466	HA	MET	94	2.368	0.933	-14.590	1.00	0.00
ATOM	1467	CB	MET	94	4.183	-0.166	-14.294	1.00	0.00
ATOM	1468	HB2	MET	94	5.212	-0.131	-14.654	1.00	0.00
ATOM	1469	HB3	MET	94	4.181	-0.193	-13.204	1.00	0.00
ATOM	1470	CG	MET	94	3.497	-1.421	-14.836	1.00	0.00
ATOM	1471	HG2	MET	94	3.177	-1.251	-15.864	1.00	0.00
ATOM	1472	HG3	MET	94	4.191	-2.262	-14.807	1.00	0.00
ATOM	1473	SD	MET	94	2.051	-1.807	-13.818	1.00	0.00
ATOM	1474	CE	MET	94	2.900	-1.866	-12.220	1.00	0.00

ATOM	1475	HE1	MET	94	3.364	-0.901	-12.018	1.00	0.00
ATOM	1476	HE2	MET	94	2.181	-2.095	-11.434	1.00	0.00
ATOM	1477	HE3	MET	94	3.668	-2.639	-12.244	1.00	0.00
ATOM	1478	C	MET	94	3.926	2.298	-13.993	1.00	0.00
ATOM	1479	O	MET	94	3.296	2.742	-13.055	1.00	0.00
ATOM	1480	N	VAL	95	5.054	2.838	-14.369	1.00	0.00
ATOM	1481	H	VAL	95	5.585	2.469	-15.145	1.00	0.00
ATOM	1482	CA	VAL	95	5.593	4.026	-13.645	1.00	0.00
ATOM	1483	HA	VAL	95	6.090	3.714	-12.726	1.00	0.00
ATOM	1484	CB	VAL	95	6.611	4.745	-14.532	1.00	0.00
ATOM	1485	HB	VAL	95	6.156	4.976	-15.495	1.00	0.00
ATOM	1486	CG1	VAL	95	7.053	6.042	-13.853	1.00	0.00
ATOM	1487	HG11	VAL	95	7.509	5.811	-12.890	1.00	0.00
ATOM	1488	HG12	VAL	95	7.779	6.554	-14.485	1.00	0.00
ATOM	1489	HG13	VAL	95	6.187	6.685	-13.699	1.00	0.00
ATOM	1490	CG2	VAL	95	7.828	3.842	-14.746	1.00	0.00
ATOM	1491	HG21	VAL	95	7.514	2.916	-15.230	1.00	0.00
ATOM	1492	HG22	VAL	95	8.554	4.353	-15.378	1.00	0.00
ATOM	1493	HG23	VAL	95	8.284	3.611	-13.783	1.00	0.00
ATOM	1494	C	VAL	95	4.451	4.985	-13.298	1.00	0.00
ATOM	1495	O	VAL	95	3.824	4.868	-12.264	1.00	0.00
ATOM	1496	N	GLN	96	4.179	5.933	-14.151	1.00	0.00

ATOM	1497	H	GLN	96	4.698	6.039	-15.011	1.00	0.00
ATOM	1498	CA	GLN	96	3.080	6.898	-13.865	1.00	0.00
ATOM	1499	HA	GLN	96	3.319	7.492	-12.983	1.00	0.00
ATOM	1500	CB	GLN	96	2.905	7.841	-15.058	1.00	0.00
ATOM	1501	HB2	GLN	96	2.621	7.264	-15.938	1.00	0.00
ATOM	1502	HB3	GLN	96	2.126	8.569	-14.834	1.00	0.00
ATOM	1503	CG	GLN	96	4.222	8.570	-15.330	1.00	0.00
ATOM	1504	HG2	GLN	96	4.559	9.094	-14.435	1.00	0.00
ATOM	1505	HG3	GLN	96	4.988	7.860	-15.644	1.00	0.00
ATOM	1506	CD	GLN	96	4.016	9.594	-16.448	1.00	0.00
ATOM	1507	OE1	GLN	96	3.296	10.559	-16.280	1.00	0.00
ATOM	1508	NE2	GLN	96	4.624	9.426	-17.591	1.00	0.00
ATOM	1509	HE21	GLN	96	4.493	10.098	-18.333	1.00	0.00
ATOM	1510	HE22	GLN	96	5.223	8.624	-17.728	1.00	0.00
ATOM	1511	C	GLN	96	1.779	6.136	-13.621	1.00	0.00
ATOM	1512	O	GLN	96	1.139	6.287	-12.599	1.00	0.00
ATOM	1513	N	GLN	97	1.383	5.319	-14.553	1.00	0.00
ATOM	1514	H	GLN	97	1.910	5.194	-15.405	1.00	0.00
ATOM	1515	CA	GLN	97	0.123	4.543	-14.382	1.00	0.00
ATOM	1516	HA	GLN	97	-0.742	5.188	-14.532	1.00	0.00
ATOM	1517	CB	GLN	97	0.077	3.415	-15.415	1.00	0.00
ATOM	1518	HB2	GLN	97	0.403	3.794	-16.384	1.00	0.00

ATOM	1519	HB3	GLN	97	0.738	2.606	-15.102	1.00	0.00
ATOM	1520	CG	GLN	97	-1.355	2.888	-15.529	1.00	0.00
ATOM	1521	HG2	GLN	97	-1.391	2.029	-16.200	1.00	0.00
ATOM	1522	HG3	GLN	97	-1.729	2.597	-14.547	1.00	0.00
ATOM	1523	CD	GLN	97	-2.259	3.986	-16.091	1.00	0.00
ATOM	1524	OE1	GLN	97	-2.137	4.362	-17.240	1.00	0.00
ATOM	1525	NE2	GLN	97	-3.170	4.519	-15.323	1.00	0.00
ATOM	1526	HE21	GLN	97	-3.771	5.244	-15.687	1.00	0.00
ATOM	1527	HE22	GLN	97	-3.269	4.203	-14.369	1.00	0.00
ATOM	1528	C	GLN	97	0.072	3.951	-12.972	1.00	0.00
ATOM	1529	O	GLN	97	-0.726	4.353	-12.148	1.00	0.00
ATOM	1530	N	PHE	98	0.919	3.000	-12.686	1.00	0.00
ATOM	1531	H	PHE	98	1.586	2.654	-13.361	1.00	0.00
ATOM	1532	CA	PHE	98	0.911	2.391	-11.325	1.00	0.00
ATOM	1533	HA	PHE	98	-0.011	1.830	-11.173	1.00	0.00
ATOM	1534	CB	PHE	98	2.097	1.434	-11.169	1.00	0.00
ATOM	1535	HB2	PHE	98	2.144	0.704	-11.978	1.00	0.00
ATOM	1536	HB3	PHE	98	3.048	1.963	-11.103	1.00	0.00
ATOM	1537	CG	PHE	98	1.949	0.647	-9.884	1.00	0.00
ATOM	1538	CD1	PHE	98	0.749	0.695	-9.159	1.00	0.00
ATOM	1539	HD1	PHE	98	-0.081	1.300	-9.522	1.00	0.00
ATOM	1540	CE1	PHE	98	0.618	-0.033	-7.972	1.00	0.00



ATOM	1541	HE1 PHE	98	-0.316	0.005	-7.411	1.00	0.00
ATOM	1542	CZ PHE	98	1.683	-0.810	-7.504	1.00	0.00
ATOM	1543	HZ PHE	98	1.580	-1.377	-6.578	1.00	0.00
ATOM	1544	CE2 PHE	98	2.882	-0.860	-8.225	1.00	0.00
ATOM	1545	HE2 PHE	98	3.712	-1.466	-7.861	1.00	0.00
ATOM	1546	CD2 PHE	98	3.015	-0.132	-9.414	1.00	0.00
ATOM	1547	HD2 PHE	98	3.949	-0.171	-9.975	1.00	0.00
ATOM	1548	C PHE	98	1.010	3.500	-10.279	1.00	0.00
ATOM	1549	O PHE	98	0.380	3.448	-9.242	1.00	0.00
ATOM	1550	N LYS	99	1.795	4.506	-10.547	1.00	0.00
ATOM	1551	H LYS	99	2.321	4.554	-11.408	1.00	0.00
ATOM	1552	CA LYS	99	1.932	5.623	-9.572	1.00	0.00
ATOM	1553	HA LYS	99	2.226	5.237	-8.596	1.00	0.00
ATOM	1554	CB LYS	99	3.007	6.597	-10.056	1.00	0.00
ATOM	1555	HB2 LYS	99	3.920	6.047	-10.284	1.00	0.00
ATOM	1556	HB3 LYS	99	2.658	7.107	-10.954	1.00	0.00
ATOM	1557	CG LYS	99	3.292	7.628	-8.961	1.00	0.00
ATOM	1558	HG2 LYS	99	2.365	8.129	-8.682	1.00	0.00
ATOM	1559	HG3 LYS	99	3.711	7.126	-8.088	1.00	0.00
ATOM	1560	CD LYS	99	4.292	8.661	-9.484	1.00	0.00
ATOM	1561	HD2 LYS	99	5.239	8.170	-9.708	1.00	0.00
ATOM	1562	HD3 LYS	99	3.899	9.121	-10.390	1.00	0.00

ATOM	1563	CE	LYS	99	4.515	9.738	-8.420	1.00	0.00
ATOM	1564	HE2	LYS	99	4.335	10.721	-8.854	1.00	0.00
ATOM	1565	HE3	LYS	99	3.828	9.576	-7.589	1.00	0.00
ATOM	1566	NZ	LYS	99	5.918	9.664	-7.925	1.00	0.00
ATOM	1567	HZ1	LYS	99	6.555	9.814	-8.695	1.00	0.00
ATOM	1568	HZ2	LYS	99	6.065	10.374	-7.223	1.00	0.00
ATOM	1569	HZ3	LYS	99	6.086	8.753	-7.522	1.00	0.00
ATOM	1570	C	LYS	99	0.594	6.355	-9.457	1.00	0.00
ATOM	1571	O	LYS	99	0.230	6.845	-8.407	1.00	0.00
ATOM	1572	N	ARG	100	-0.143	6.426	-10.530	1.00	0.00
ATOM	1573	H	ARG	100	0.155	6.020	-11.406	1.00	0.00
ATOM	1574	CA	ARG	100	-1.461	7.118	-10.484	1.00	0.00
ATOM	1575	HA	ARG	100	-1.349	8.114	-10.056	1.00	0.00
ATOM	1576	CB	ARG	100	-2.019	7.255	-11.902	1.00	0.00
ATOM	1577	HB2	ARG	100	-1.837	6.334	-12.456	1.00	0.00
ATOM	1578	HB3	ARG	100	-3.091	7.444	-11.855	1.00	0.00
ATOM	1579	CG	ARG	100	-1.326	8.421	-12.610	1.00	0.00
ATOM	1580	HG2	ARG	100	-1.473	9.334	-12.034	1.00	0.00
ATOM	1581	HG3	ARG	100	-0.259	8.212	-12.694	1.00	0.00
ATOM	1582	CD	ARG	100	-1.923	8.598	-14.008	1.00	0.00
ATOM	1583	HD2	ARG	100	-2.016	7.631	-14.504	1.00	0.00
ATOM	1584	HD3	ARG	100	-2.904	9.068	-13.943	1.00	0.00

ATOM	1585	NE	ARG	100	-1.029	9.469	-14.823	1.00	0.00
ATOM	1586	HE	ARG	100	-0.123	9.150	-15.136	1.00	0.00
ATOM	1587	CZ	ARG	100	-1.411	10.673	-15.148	1.00	0.00
ATOM	1588	NH1	ARG	100	-0.785	11.710	-14.662	1.00	0.00
ATOM	1589	HH11	ARG	100	-0.005	11.576	-14.034	1.00	0.00
ATOM	1590	HH12	ARG	100	-1.083	12.640	-14.916	1.00	0.00
ATOM	1591	NH2	ARG	100	-2.419	10.841	-15.959	1.00	0.00
ATOM	1592	HH21	ARG	100	-2.901	10.036	-16.334	1.00	0.00
ATOM	1593	HH22	ARG	100	-2.712	11.774	-16.209	1.00	0.00
ATOM	1594	C	ARG	100	-2.425	6.296	-9.630	1.00	0.00
ATOM	1595	O	ARG	100	-3.026	6.795	-8.699	1.00	0.00
ATOM	1596	N	GLU	101	-2.569	5.033	-9.929	1.00	0.00
ATOM	1597	H	GLU	101	-2.070	4.607	-10.697	1.00	0.00
ATOM	1598	CA	GLU	101	-3.484	4.179	-9.123	1.00	0.00
ATOM	1599	HA	GLU	101	-4.498	4.575	-9.158	1.00	0.00
ATOM	1600	CB	GLU	101	-3.494	2.759	-9.692	1.00	0.00
ATOM	1601	HB2	GLU	101	-2.473	2.379	-9.739	1.00	0.00
ATOM	1602	HB3	GLU	101	-4.091	2.114	-9.048	1.00	0.00
ATOM	1603	CG	GLU	101	-4.097	2.774	-11.098	1.00	0.00
ATOM	1604	HG2	GLU	101	-3.426	3.302	-11.775	1.00	0.00
ATOM	1605	HG3	GLU	101	-4.233	1.750	-11.448	1.00	0.00
ATOM	1606	CD	GLU	101	-5.451	3.486	-11.064	1.00	0.00

ATOM	1607	OE1	GLU	101	-6.161	3.322	-10.086	1.00	0.00
ATOM	1608	OE2	GLU	101	-5.756	4.183	-12.019	1.00	0.00
ATOM	1609	C	GLU	101	-2.982	4.148	-7.681	1.00	0.00
ATOM	1610	O	GLU	101	-3.751	4.164	-6.740	1.00	0.00
ATOM	1611	N	LEU	102	-1.689	4.105	-7.502	1.00	0.00
ATOM	1612	H	LEU	102	-1.047	4.089	-8.282	1.00	0.00
ATOM	1613	CA	LEU	102	-1.126	4.076	-6.125	1.00	0.00
ATOM	1614	HA	LEU	102	-1.429	3.164	-5.611	1.00	0.00
ATOM	1615	CB	LEU	102	0.402	4.110	-6.200	1.00	0.00
ATOM	1616	HB2	LEU	102	0.715	4.052	-7.243	1.00	0.00
ATOM	1617	HB3	LEU	102	0.765	5.040	-5.764	1.00	0.00
ATOM	1618	CG	LEU	102	0.984	2.923	-5.426	1.00	0.00
ATOM	1619	HG	LEU	102	0.901	3.112	-4.356	1.00	0.00
ATOM	1620	CD1	LEU	102	0.213	1.649	-5.780	1.00	0.00
ATOM	1621	HD11	LEU	102	0.297	1.458	-6.850	1.00	0.00
ATOM	1622	HD12	LEU	102	0.630	0.806	-5.228	1.00	0.00
ATOM	1623	HD13	LEU	102	-0.837	1.773	-5.515	1.00	0.00
ATOM	1624	CD2	LEU	102	2.457	2.746	-5.800	1.00	0.00
ATOM	1625	HD21	LEU	102	3.008	3.651	-5.546	1.00	0.00
ATOM	1626	HD22	LEU	102	2.873	1.901	-5.250	1.00	0.00
ATOM	1627	HD23	LEU	102	2.541	2.558	-6.871	1.00	0.00
ATOM	1628	C	LEU	102	-1.627	5.291	-5.343	1.00	0.00

ATOM	1629	O	LEU	102	-1.916	5.207	-4.168	1.00	0.00
ATOM	1630	N	MET	103	-1.739	6.421	-5.988	1.00	0.00
ATOM	1631	H	MET	103	-1.505	6.502	-6.967	1.00	0.00
ATOM	1632	CA	MET	103	-2.228	7.634	-5.275	1.00	0.00
ATOM	1633	HA	MET	103	-1.595	7.846	-4.413	1.00	0.00
ATOM	1634	CB	MET	103	-2.186	8.836	-6.220	1.00	0.00
ATOM	1635	HB2	MET	103	-2.638	8.565	-7.174	1.00	0.00
ATOM	1636	HB3	MET	103	-2.738	9.665	-5.779	1.00	0.00
ATOM	1637	CG	MET	103	-0.731	9.255	-6.446	1.00	0.00
ATOM	1638	HG2	MET	103	-0.252	9.456	-5.488	1.00	0.00
ATOM	1639	HG3	MET	103	-0.193	8.458	-6.960	1.00	0.00
ATOM	1640	SD	MET	103	-0.686	10.754	-7.460	1.00	0.00
ATOM	1641	CE	MET	103	-0.945	11.942	-6.121	1.00	0.00
ATOM	1642	HE1	MET	103	-0.139	11.850	-5.392	1.00	0.00
ATOM	1643	HE2	MET	103	-0.952	12.953	-6.528	1.00	0.00
ATOM	1644	HE3	MET	103	-1.899	11.739	-5.634	1.00	0.00
ATOM	1645	C	MET	103	-3.667	7.396	-4.815	1.00	0.00
ATOM	1646	O	MET	103	-4.096	7.899	-3.796	1.00	0.00
ATOM	1647	N	SER	104	-4.414	6.626	-5.559	1.00	0.00
ATOM	1648	H	SER	104	-4.061	6.204	-6.406	1.00	0.00
ATOM	1649	CA	SER	104	-5.823	6.349	-5.167	1.00	0.00
ATOM	1650	HA	SER	104	-6.287	7.248	-4.764	1.00	0.00

ATOM	1651	CB	SER	104	-6.615	5.899	-6.396	1.00	0.00
ATOM	1652	HB2	SER	104	-7.656	5.736	-6.119	1.00	0.00
ATOM	1653	HB3	SER	104	-6.560	6.668	-7.166	1.00	0.00
ATOM	1654	OG	SER	104	-6.064	4.689	-6.896	1.00	0.00
ATOM	1655	HG	SER	104	-6.560	4.406	-7.667	1.00	0.00
ATOM	1656	C	SER	104	-5.847	5.242	-4.111	1.00	0.00
ATOM	1657	O	SER	104	-6.705	5.208	-3.252	1.00	0.00
ATOM	1658	N	LEU	105	-4.913	4.332	-4.172	1.00	0.00
ATOM	1659	H	LEU	105	-4.202	4.352	-4.889	1.00	0.00
ATOM	1660	CA	LEU	105	-4.881	3.224	-3.177	1.00	0.00
ATOM	1661	HA	LEU	105	-5.629	2.471	-3.426	1.00	0.00
ATOM	1662	CB	LEU	105	-3.500	2.563	-3.189	1.00	0.00
ATOM	1663	HB2	LEU	105	-2.838	3.127	-3.846	1.00	0.00
ATOM	1664	HB3	LEU	105	-3.090	2.557	-2.179	1.00	0.00
ATOM	1665	CG	LEU	105	-3.620	1.124	-3.699	1.00	0.00
ATOM	1666	HG	LEU	105	-2.682	0.597	-3.522	1.00	0.00
ATOM	1667	CD1	LEU	105	-4.754	0.408	-2.961	1.00	0.00
ATOM	1668	HD11	LEU	105	-5.692	0.933	-3.139	1.00	0.00
ATOM	1669	HD12	LEU	105	-4.836	-0.616	-3.326	1.00	0.00
ATOM	1670	HD13	LEU	105	-4.541	0.395	-1.892	1.00	0.00
ATOM	1671	CD2	LEU	105	-3.916	1.138	-5.199	1.00	0.00
ATOM	1672	HD21	LEU	105	-3.106	1.643	-5.725	1.00	0.00

ATOM	1673	HD22	LEU	105	-4.001	0.114	-5.563	1.00	0.00
ATOM	1674	HD23	LEU	105	-4.852	1.666	-5.380	1.00	0.00
ATOM	1675	C	LEU	105	-5.173	3.769	-1.777	1.00	0.00
ATOM	1676	O	LEU	105	-6.016	3.254	-1.070	1.00	0.00
ATOM	1677	N	PRO	106	-4.465	4.835	-1.366	1.00	0.00
ATOM	1678	CD	PRO	106	-3.429	5.533	-2.148	1.00	0.00
ATOM	1679	HD2	PRO	106	-3.779	5.686	-3.169	1.00	0.00
ATOM	1680	HD3	PRO	106	-2.516	4.937	-2.164	1.00	0.00
ATOM	1681	CG	PRO	106	-3.258	6.823	-1.396	1.00	0.00
ATOM	1682	HG2	PRO	106	-3.945	7.571	-1.792	1.00	0.00
ATOM	1683	HG3	PRO	106	-2.233	7.177	-1.506	1.00	0.00
ATOM	1684	CB	PRO	106	-3.561	6.505	0.027	1.00	0.00
ATOM	1685	HB2	PRO	106	-3.947	7.407	0.501	1.00	0.00
ATOM	1686	HB3	PRO	106	-2.716	6.125	0.603	1.00	0.00
ATOM	1687	CA	PRO	106	-4.660	5.445	-0.047	1.00	0.00
ATOM	1688	HA	PRO	106	-4.562	4.670	0.713	1.00	0.00
ATOM	1689	C	PRO	106	-6.039	6.094	0.063	1.00	0.00
ATOM	1690	O	PRO	106	-6.444	6.553	1.113	1.00	0.00
ATOM	1691	N	GLN	107	-6.768	6.124	-1.018	1.00	0.00
ATOM	1692	H	GLN	107	-6.431	5.742	-1.891	1.00	0.00
ATOM	1693	CA	GLN	107	-8.126	6.728	-0.990	1.00	0.00
ATOM	1694	HA	GLN	107	-8.226	7.390	-0.130	1.00	0.00

ATOM	1695	CB	GLN	107	-8.352	7.544	-2.264	1.00	0.00
ATOM	1696	HB2	GLN	107	-7.569	8.296	-2.358	1.00	0.00
ATOM	1697	HB3	GLN	107	-8.324	6.882	-3.130	1.00	0.00
ATOM	1698	CG	GLN	107	-9.716	8.234	-2.193	1.00	0.00
ATOM	1699	HG2	GLN	107	-10.508	7.493	-2.083	1.00	0.00
ATOM	1700	HG3	GLN	107	-9.747	8.925	-1.351	1.00	0.00
ATOM	1701	CD	GLN	107	-9.958	9.021	-3.482	1.00	0.00
ATOM	1702	OE1	GLN	107	-9.071	9.153	-4.303	1.00	0.00
ATOM	1703	NE2	GLN	107	-11.129	9.555	-3.697	1.00	0.00
ATOM	1704	HE21	GLN	107	-11.295	10.075	-4.546	1.00	0.00
ATOM	1705	HE22	GLN	107	-11.864	9.445	-3.013	1.00	0.00
ATOM	1706	C	GLN	107	-9.166	5.613	-0.904	1.00	0.00
ATOM	1707	O	GLN	107	-10.069	5.652	-0.093	1.00	0.00
ATOM	1708	N	GLN	108	-9.048	4.618	-1.740	1.00	0.00
ATOM	1709	H	GLN	108	-8.301	4.581	-2.419	1.00	0.00
ATOM	1710	CA	GLN	108	-10.030	3.498	-1.709	1.00	0.00
ATOM	1711	HA	GLN	108	-10.995	3.829	-2.092	1.00	0.00
ATOM	1712	CB	GLN	108	-9.523	2.352	-2.587	1.00	0.00
ATOM	1713	HB2	GLN	108	-9.323	2.724	-3.592	1.00	0.00
ATOM	1714	HB3	GLN	108	-8.605	1.946	-2.161	1.00	0.00
ATOM	1715	CG	GLN	108	-10.584	1.252	-2.653	1.00	0.00
ATOM	1716	HG2	GLN	108	-10.864	0.933	-1.649	1.00	0.00



ATOM	1717	HG3	GLN	108	-11.468	1.611	-3.180	1.00	0.00
ATOM	1718	CD	GLN	108	-10.020	0.047	-3.409	1.00	0.00
ATOM	1719	OE1	GLN	108	-9.111	-0.608	-2.941	1.00	0.00
ATOM	1720	NE2	GLN	108	-10.527	-0.276	-4.568	1.00	0.00
ATOM	1721	HE21	GLN	108	-10.160	-1.071	-5.073	1.00	0.00
ATOM	1722	HE22	GLN	108	-11.284	0.269	-4.954	1.00	0.00
ATOM	1723	C	GLN	108	-10.197	3.004	-0.272	1.00	0.00
ATOM	1724	O	GLN	108	-11.241	2.513	0.110	1.00	0.00
ATOM	1725	N	CYX	109	-9.176	3.130	0.530	1.00	0.00
ATOM	1726	H	CYX	109	-8.304	3.535	0.220	1.00	0.00
ATOM	1727	CA	CYX	109	-9.276	2.667	1.943	1.00	0.00
ATOM	1728	HA	CYX	109	-10.319	2.503	2.213	1.00	0.00
ATOM	1729	CB	CYX	109	-8.515	1.347	2.109	1.00	0.00
ATOM	1730	HB2	CYX	109	-8.067	1.307	3.102	1.00	0.00
ATOM	1731	HB3	CYX	109	-9.204	0.511	1.988	1.00	0.00
ATOM	1732	SG	CYX	109	-7.173	1.254	0.895	1.00	0.00
ATOM	1733	C	CYX	109	-8.671	3.726	2.869	1.00	0.00
ATOM	1734	O	CYX	109	-8.201	3.423	3.948	1.00	0.00
ATOM	1735	N	ASN	110	-8.683	4.963	2.456	1.00	0.00
ATOM	1736	H	ASN	110	-9.073	5.218	1.560	1.00	0.00
ATOM	1737	CA	ASN	110	-8.112	6.042	3.311	1.00	0.00
ATOM	1738	HA	ASN	110	-7.924	6.936	2.716	1.00	0.00

ATOM	1739	CB	ASN	110	-9.105	6.393	4.421	1.00	0.00
ATOM	1740	HB2	ASN	110	-9.201	5.560	5.118	1.00	0.00
ATOM	1741	HB3	ASN	110	-8.772	7.280	4.959	1.00	0.00
ATOM	1742	CG	ASN	110	-10.477	6.679	3.808	1.00	0.00
ATOM	1743	OD1	ASN	110	-10.583	7.404	2.839	1.00	0.00
ATOM	1744	ND2	ASN	110	-11.540	6.136	4.336	1.00	0.00
ATOM	1745	HD21	ASN	110	-12.449	6.320	3.936	1.00	0.00
ATOM	1746	HD22	ASN	110	-11.448	5.533	5.142	1.00	0.00
ATOM	1747	C	ASN	110	-6.801	5.562	3.935	1.00	0.00
ATOM	1748	O	ASN	110	-6.561	5.740	5.113	1.00	0.00
ATOM	1749	N	PHE	111	-5.948	4.953	3.155	1.00	0.00
ATOM	1750	H	PHE	111	-6.138	4.796	2.175	1.00	0.00
ATOM	1751	CA	PHE	111	-4.654	4.466	3.709	1.00	0.00
ATOM	1752	HA	PHE	111	-4.824	3.899	4.624	1.00	0.00
ATOM	1753	CB	PHE	111	-3.973	3.553	2.688	1.00	0.00
ATOM	1754	HB2	PHE	111	-4.684	3.116	1.987	1.00	0.00
ATOM	1755	HB3	PHE	111	-3.188	4.068	2.135	1.00	0.00
ATOM	1756	CG	PHE	111	-3.311	2.401	3.406	1.00	0.00
ATOM	1757	CD1	PHE	111	-4.066	1.281	3.776	1.00	0.00
ATOM	1758	HD1	PHE	111	-5.130	1.239	3.545	1.00	0.00
ATOM	1759	CE1	PHE	111	-3.452	0.214	4.443	1.00	0.00
ATOM	1760	HE1	PHE	111	-4.040	-0.657	4.733	1.00	0.00

ATOM	1761	CZ	PHE	111	-2.084	0.265	4.738	1.00	0.00
ATOM	1762	HZ	PHE	111	-1.606	-0.567	5.256	1.00	0.00
ATOM	1763	CE2	PHE	111	-1.330	1.385	4.367	1.00	0.00
ATOM	1764	HE2	PHE	111	-0.265	1.426	4.597	1.00	0.00
ATOM	1765	CD2	PHE	111	-1.944	2.452	3.701	1.00	0.00
ATOM	1766	HD2	PHE	111	-1.357	3.323	3.412	1.00	0.00
ATOM	1767	C	PHE	111	-3.747	5.659	4.013	1.00	0.00
ATOM	1768	O	PHE	111	-2.661	5.508	4.535	1.00	0.00
ATOM	1769	N	ARG	112	-4.184	6.847	3.692	1.00	0.00
ATOM	1770	H	ARG	112	-5.086	6.982	3.259	1.00	0.00
ATOM	1771	CA	ARG	112	-3.344	8.047	3.966	1.00	0.00
ATOM	1772	HA	ARG	112	-2.493	8.076	3.285	1.00	0.00
ATOM	1773	CB	ARG	112	-4.179	9.313	3.760	1.00	0.00
ATOM	1774	HB2	ARG	112	-5.064	9.272	4.395	1.00	0.00
ATOM	1775	HB3	ARG	112	-3.584	10.187	4.023	1.00	0.00
ATOM	1776	CG	ARG	112	-4.607	9.409	2.293	1.00	0.00
ATOM	1777	HG2	ARG	112	-3.725	9.376	1.653	1.00	0.00
ATOM	1778	HG3	ARG	112	-5.263	8.573	2.049	1.00	0.00
ATOM	1779	CD	ARG	112	-5.353	10.725	2.066	1.00	0.00
ATOM	1780	HD2	ARG	112	-4.704	11.570	2.295	1.00	0.00
ATOM	1781	HD3	ARG	112	-5.688	10.795	1.031	1.00	0.00
ATOM	1782	NE	ARG	112	-6.544	10.781	2.959	1.00	0.00

ATOM	1783	HE	ARG	112	-7.242	10.050	2.954	1.00	0.00
ATOM	1784	CZ	ARG	112	-6.704	11.790	3.772	1.00	0.00
ATOM	1785	NH1	ARG	112	-6.255	11.718	4.995	1.00	0.00
ATOM	1786	HH11	ARG	112	-5.784	10.881	5.309	1.00	0.00
ATOM	1787	HH12	ARG	112	-6.380	12.499	5.622	1.00	0.00
ATOM	1788	NH2	ARG	112	-7.312	12.868	3.362	1.00	0.00
ATOM	1789	HH21	ARG	112	-7.658	12.919	2.415	1.00	0.00
ATOM	1790	HH22	ARG	112	-7.434	13.646	3.994	1.00	0.00
ATOM	1791	C	ARG	112	-2.845	7.996	5.411	1.00	0.00
ATOM	1792	O	ARG	112	-3.458	7.393	6.269	1.00	0.00
ATOM	1793	N	ALA	113	-1.735	8.626	5.689	1.00	0.00
ATOM	1794	H	ALA	113	-1.218	9.130	4.983	1.00	0.00
ATOM	1795	CA	ALA	113	-1.200	8.611	7.079	1.00	0.00
ATOM	1796	HA	ALA	113	-1.967	8.343	7.806	1.00	0.00
ATOM	1797	CB	ALA	113	-0.060	7.596	7.176	1.00	0.00
ATOM	1798	HB1	ALA	113	0.720	7.855	6.460	1.00	0.00
ATOM	1799	HB2	ALA	113	0.354	7.608	8.184	1.00	0.00
ATOM	1800	HB3	ALA	113	-0.440	6.599	6.952	1.00	0.00
ATOM	1801	C	ALA	113	-0.676	10.002	7.440	1.00	0.00
ATOM	1802	O	ALA	113	-0.456	10.834	6.582	1.00	0.00
ATOM	1803	N	PRO	114	-0.473	10.253	8.742	1.00	0.00
ATOM	1804	CD	PRO	114	-0.716	9.299	9.837	1.00	0.00

ATOM	1805	HD2 PRO	114	-0.252	8.342	9.595	1.00	0.00
ATOM	1806	HD3 PRO	114	-1.789	9.159	9.965	1.00	0.00
ATOM	1807	CG PRO	114	-0.079	9.965	11.023	1.00	0.00
ATOM	1808	HG2 PRO	114	0.945	9.607	11.132	1.00	0.00
ATOM	1809	HG3 PRO	114	-0.646	9.722	11.922	1.00	0.00
ATOM	1810	CB PRO	114	-0.117	11.431	10.748	1.00	0.00
ATOM	1811	HB2 PRO	114	0.741	11.892	11.237	1.00	0.00
ATOM	1812	HB3 PRO	114	-1.030	11.929	11.072	1.00	0.00
ATOM	1813	CA PRO	114	0.028	11.543	9.231	1.00	0.00
ATOM	1814	HA PRO	114	-0.576	12.335	8.790	1.00	0.00
ATOM	1815	C PRO	114	1.498	11.757	8.861	1.00	0.00
ATOM	1816	O PRO	114	2.028	12.843	8.984	1.00	0.00
ATOM	1817	N GLN	115	2.160	10.728	8.406	1.00	0.00
ATOM	1818	H GLN	115	1.725	9.822	8.301	1.00	0.00
ATOM	1819	CA GLN	115	3.593	10.871	8.026	1.00	0.00
ATOM	1820	HA GLN	115	4.008	11.785	8.450	1.00	0.00
ATOM	1821	CB GLN	115	4.385	9.678	8.566	1.00	0.00
ATOM	1822	HB2 GLN	115	4.023	8.760	8.102	1.00	0.00
ATOM	1823	HB3 GLN	115	5.442	9.808	8.334	1.00	0.00
ATOM	1824	CG GLN	115	4.203	9.588	10.083	1.00	0.00
ATOM	1825	HG2 GLN	115	3.155	9.416	10.328	1.00	0.00
ATOM	1826	HG3 GLN	115	4.808	8.778	10.491	1.00	0.00

ATOM	1827	CD	GLN	115	4.647	10.902	10.728	1.00	0.00
ATOM	1828	OE1	GLN	115	5.742	11.371	10.485	1.00	0.00
ATOM	1829	NE2	GLN	115	3.840	11.519	11.546	1.00	0.00
ATOM	1830	HE21	GLN	115	4.128	12.387	11.975	1.00	0.00
ATOM	1831	HE22	GLN	115	2.932	11.125	11.746	1.00	0.00
ATOM	1832	C	GLN	115	3.714	10.916	6.502	1.00	0.00
ATOM	1833	O	GLN	115	2.902	10.359	5.788	1.00	0.00
ATOM	1834	N	ARG	116	4.720	11.573	5.996	1.00	0.00
ATOM	1835	H	ARG	116	5.398	12.038	6.582	1.00	0.00
ATOM	1836	CA	ARG	116	4.891	11.652	4.518	1.00	0.00
ATOM	1837	HA	ARG	116	4.065	11.149	4.014	1.00	0.00
ATOM	1838	CB	ARG	116	4.909	13.119	4.084	1.00	0.00
ATOM	1839	HB2	ARG	116	5.717	13.640	4.597	1.00	0.00
ATOM	1840	HB3	ARG	116	5.066	13.178	3.007	1.00	0.00
ATOM	1841	CG	ARG	116	3.572	13.772	4.441	1.00	0.00
ATOM	1842	HG2	ARG	116	2.761	13.227	3.958	1.00	0.00
ATOM	1843	HG3	ARG	116	3.433	13.747	5.522	1.00	0.00
ATOM	1844	CD	ARG	116	3.569	15.224	3.959	1.00	0.00
ATOM	1845	HD2	ARG	116	4.483	15.728	4.273	1.00	0.00
ATOM	1846	HD3	ARG	116	3.490	15.261	2.872	1.00	0.00
ATOM	1847	NE	ARG	116	2.402	15.940	4.548	1.00	0.00
ATOM	1848	HE	ARG	116	2.496	16.510	5.376	1.00	0.00

ATOM	1849	CZ	ARG	116	1.227	15.840	3.991	1.00	0.00
ATOM	1850	NH1	ARG	116	1.010	14.928	3.083	1.00	0.00
ATOM	1851	HH11	ARG	116	1.755	14.300	2.814	1.00	0.00
ATOM	1852	HH12	ARG	116	0.099	14.853	2.654	1.00	0.00
ATOM	1853	NH2	ARG	116	0.266	16.650	4.344	1.00	0.00
ATOM	1854	HH21	ARG	116	0.436	17.353	5.049	1.00	0.00
ATOM	1855	HH22	ARG	116	-0.642	16.569	3.911	1.00	0.00
ATOM	1856	C	ARG	116	6.209	10.986	4.119	1.00	0.00
ATOM	1857	O	ARG	116	7.154	10.954	4.881	1.00	0.00
ATOM	1858	N	CYX	117	6.279	10.451	2.931	1.00	0.00
ATOM	1859	H	CYX	117	5.497	10.473	2.292	1.00	0.00
ATOM	1860	CA	CYX	117	7.535	9.787	2.486	1.00	0.00
ATOM	1861	HA	CYX	117	8.266	9.779	3.295	1.00	0.00
ATOM	1862	CB	CYX	117	7.234	8.341	2.085	1.00	0.00
ATOM	1863	HB2	CYX	117	6.461	8.329	1.317	1.00	0.00
ATOM	1864	HB3	CYX	117	8.139	7.875	1.695	1.00	0.00
ATOM	1865	SG	CYX	117	6.604	7.436	3.520	1.00	0.00
ATOM	1866	C	CYX	117	8.111	10.538	1.284	1.00	0.00
ATOM	1867	O	CYX	117	7.414	11.256	0.596	1.00	0.00
ATOM	1868	N	ASP	118	9.381	10.377	1.025	1.00	0.00
ATOM	1869	H	ASP	118	9.968	9.782	1.592	1.00	0.00
ATOM	1870	CA	ASP	118	9.999	11.082	-0.133	1.00	0.00

ATOM	1871	HA	ASP	118	9.706	12.131	-0.137	1.00	0.00
ATOM	1872	CB	ASP	118	11.523	11.001	-0.025	1.00	0.00
ATOM	1873	HB2	ASP	118	11.834	9.956	-0.013	1.00	0.00
ATOM	1874	HB3	ASP	118	11.974	11.503	-0.881	1.00	0.00
ATOM	1875	CG	ASP	118	11.980	11.683	1.266	1.00	0.00
ATOM	1876	OD1	ASP	118	11.186	12.408	1.843	1.00	0.00
ATOM	1877	OD2	ASP	118	13.116	11.467	1.657	1.00	0.00
ATOM	1878	C	ASP	118	9.543	10.420	-1.435	1.00	0.00
ATOM	1879	O	ASP	118	9.330	9.226	-1.493	1.00	0.00
ATOM	1880	N	LEU	119	9.389	11.188	-2.479	1.00	0.00
ATOM	1881	H	LEU	119	9.564	12.181	-2.438	1.00	0.00
ATOM	1882	CA	LEU	119	8.944	10.602	-3.774	1.00	0.00
ATOM	1883	HA	LEU	119	8.132	9.894	-3.610	1.00	0.00
ATOM	1884	CB	LEU	119	8.442	11.719	-4.691	1.00	0.00
ATOM	1885	HB2	LEU	119	9.143	12.553	-4.664	1.00	0.00
ATOM	1886	HB3	LEU	119	8.361	11.345	-5.712	1.00	0.00
ATOM	1887	CG	LEU	119	7.068	12.192	-4.211	1.00	0.00
ATOM	1888	HG	LEU	119	6.461	11.328	-3.939	1.00	0.00
ATOM	1889	CD1	LEU	119	7.239	13.100	-2.992	1.00	0.00
ATOM	1890	HD11	LEU	119	7.846	13.963	-3.264	1.00	0.00
ATOM	1891	HD12	LEU	119	6.261	13.437	-2.650	1.00	0.00
ATOM	1892	HD13	LEU	119	7.733	12.547	-2.193	1.00	0.00



ATOM	1893	CD2	LEU	119	6.373	12.967	-5.332	1.00	0.00
ATOM	1894	HD21	LEU	119	6.251	12.319	-6.200	1.00	0.00
ATOM	1895	HD22	LEU	119	5.395	13.303	-4.989	1.00	0.00
ATOM	1896	HD23	LEU	119	6.978	13.831	-5.606	1.00	0.00
ATOM	1897	C	LEU	119	10.118	9.883	-4.442	1.00	0.00
ATOM	1898	O	LEU	119	9.937	9.037	-5.294	1.00	0.00
ATOM	1899	N	ASP	120	11.323	10.211	-4.060	1.00	0.00
ATOM	1900	H	ASP	120	11.484	10.914	-3.353	1.00	0.00
ATOM	1901	CA	ASP	120	12.505	9.543	-4.674	1.00	0.00
ATOM	1902	HA	ASP	120	12.449	9.600	-5.761	1.00	0.00
ATOM	1903	CB	ASP	120	13.785	10.243	-4.213	1.00	0.00
ATOM	1904	HB2	ASP	120	14.648	9.771	-4.683	1.00	0.00
ATOM	1905	HB3	ASP	120	13.747	11.294	-4.497	1.00	0.00
ATOM	1906	CG	ASP	120	13.907	10.130	-2.692	1.00	0.00
ATOM	1907	OD1	ASP	120	12.897	9.886	-2.052	1.00	0.00
ATOM	1908	OD2	ASP	120	15.009	10.289	-2.193	1.00	0.00
ATOM	1909	C	ASP	120	12.542	8.075	-4.245	1.00	0.00
ATOM	1910	O	ASP	120	13.001	7.217	-4.972	1.00	0.00
ATOM	1911	N	VAL	121	12.064	7.780	-3.067	1.00	0.00
ATOM	1912	H	VAL	121	11.682	8.487	-2.457	1.00	0.00
ATOM	1913	CA	VAL	121	12.073	6.367	-2.592	1.00	0.00
ATOM	1914	HA	VAL	121	13.098	6.014	-2.472	1.00	0.00

ATOM	1915	CB	VAL	121	11.365	6.281	-1.238	1.00	0.00
ATOM	1916	HB	VAL	121	10.404	6.791	-1.297	1.00	0.00
ATOM	1917	CG1	VAL	121	11.140	4.812	-0.872	1.00	0.00
ATOM	1918	HG11	VAL	121	12.101	4.300	-0.812	1.00	0.00
ATOM	1919	HG12	VAL	121	10.636	4.750	0.092	1.00	0.00
ATOM	1920	HG13	VAL	121	10.523	4.337	-1.635	1.00	0.00
ATOM	1921	CG2	VAL	121	12.232	6.946	-0.167	1.00	0.00
ATOM	1922	HG21	VAL	121	12.393	7.992	-0.427	1.00	0.00
ATOM	1923	HG22	VAL	121	11.729	6.885	0.798	1.00	0.00
ATOM	1924	HG23	VAL	121	13.193	6.434	-0.108	1.00	0.00
ATOM	1925	C	VAL	121	11.343	5.483	-3.606	1.00	0.00
ATOM	1926	O	VAL	121	11.816	4.428	-3.978	1.00	0.00
ATOM	1927	N	SER	122	10.195	5.906	-4.057	1.00	0.00
ATOM	1928	H	SER	122	9.796	6.782	-3.752	1.00	0.00
ATOM	1929	CA	SER	122	9.436	5.090	-5.047	1.00	0.00
ATOM	1930	HA	SER	122	9.178	4.121	-4.619	1.00	0.00
ATOM	1931	CB	SER	122	8.144	5.817	-5.426	1.00	0.00
ATOM	1932	HB2	SER	122	8.387	6.748	-5.938	1.00	0.00
ATOM	1933	HB3	SER	122	7.551	5.184	-6.086	1.00	0.00
ATOM	1934	OG	SER	122	7.400	6.103	-4.251	1.00	0.00
ATOM	1935	HG	SER	122	6.590	6.559	-4.489	1.00	0.00
ATOM	1936	C	SER	122	10.290	4.882	-6.299	1.00	0.00

ATOM	1937	O	SER	122	10.238	3.848	-6.934	1.00	0.00
ATOM	1938	N	GLY	123	11.077	5.859	-6.661	1.00	0.00
ATOM	1939	H	GLY	123	11.126	6.722	-6.139	1.00	0.00
ATOM	1940	CA	GLY	123	11.933	5.716	-7.872	1.00	0.00
ATOM	1941	HA2	GLY	123	11.443	5.068	-8.599	1.00	0.00
ATOM	1942	HA3	GLY	123	12.111	6.694	-8.319	1.00	0.00
ATOM	1943	C	GLY	123	13.275	5.097	-7.479	1.00	0.00
ATOM	1944	O	GLY	123	14.220	5.100	-8.243	1.00	0.00
ATOM	1945	N	GLY	124	13.367	4.562	-6.291	1.00	0.00
ATOM	1946	H	GLY	124	12.587	4.554	-5.650	1.00	0.00
ATOM	1947	CA	GLY	124	14.648	3.942	-5.851	1.00	0.00
ATOM	1948	HA2	GLY	124	15.456	4.671	-5.915	1.00	0.00
ATOM	1949	HA3	GLY	124	14.557	3.589	-4.823	1.00	0.00
ATOM	1950	C	GLY	124	14.978	2.754	-6.757	1.00	0.00
ATOM	1951	O	GLY	124	14.989	2.867	-7.966	1.00	0.00
ATOM	1952	N	ARG	125	15.247	1.613	-6.181	1.00	0.00
ATOM	1953	H	ARG	125	15.240	1.509	-5.176	1.00	0.00
ATOM	1954	CA	ARG	125	15.574	0.420	-7.011	1.00	0.00
ATOM	1955	HA	ARG	125	16.448	0.618	-7.632	1.00	0.00
ATOM	1956	CB	ARG	125	15.884	-0.768	-6.096	1.00	0.00
ATOM	1957	HB2	ARG	125	15.059	-0.917	-5.400	1.00	0.00
ATOM	1958	HB3	ARG	125	16.017	-1.667	-6.698	1.00	0.00

ATOM	1959	CG	ARG	125	17.167	-0.485	-5.313	1.00	0.00
ATOM	1960	HG2	ARG	125	17.966	-0.222	-6.006	1.00	0.00
ATOM	1961	HG3	ARG	125	16.998	0.342	-4.624	1.00	0.00
ATOM	1962	CD	ARG	125	17.568	-1.733	-4.523	1.00	0.00
ATOM	1963	HD2	ARG	125	16.715	-2.118	-3.965	1.00	0.00
ATOM	1964	HD3	ARG	125	17.938	-2.505	-5.198	1.00	0.00
ATOM	1965	NE	ARG	125	18.650	-1.383	-3.560	1.00	0.00
ATOM	1966	HE	ARG	125	18.584	-0.571	-2.963	1.00	0.00
ATOM	1967	CZ	ARG	125	19.714	-2.133	-3.474	1.00	0.00
ATOM	1968	NH1	ARG	125	20.316	-2.539	-4.559	1.00	0.00
ATOM	1969	HH11	ARG	125	19.956	-2.271	-5.464	1.00	0.00
ATOM	1970	HH12	ARG	125	21.140	-3.120	-4.489	1.00	0.00
ATOM	1971	NH2	ARG	125	20.177	-2.478	-2.304	1.00	0.00
ATOM	1972	HH21	ARG	125	19.710	-2.163	-1.466	1.00	0.00
ATOM	1973	HH22	ARG	125	21.001	-3.059	-2.242	1.00	0.00
ATOM	1974	C	ARG	125	14.379	0.078	-7.903	1.00	0.00
ATOM	1975	O	ARG	125	14.535	-0.409	-9.007	1.00	0.00
ATOM	1976	N	CYX	126	13.188	0.329	-7.437	1.00	0.00
ATOM	1977	H	CYX	126	13.052	0.733	-6.522	1.00	0.00
ATOM	1978	CA	CYX	126	11.984	0.019	-8.259	1.00	0.00
ATOM	1979	HA	CYX	126	11.961	-1.041	-8.512	1.00	0.00
ATOM	1980	CB	CYX	126	10.723	0.359	-7.463	1.00	0.00

ATOM	1981	HB2	CYX	126	10.788	1.384	-7.100	1.00	0.00
ATOM	1982	HB3	CYX	126	9.849	0.255	-8.105	1.00	0.00
ATOM	1983	SG	CYX	126	10.607	-0.730	-6.023	1.00	0.00
ATOM	1984	C	CYX	126	12.018	0.851	-9.543	1.00	0.00
ATOM	1985	O	CYX	126	11.412	0.501	-10.537	1.00	0.00
ATOM	1986	N	SER	127	12.723	1.948	-9.531	1.00	0.00
ATOM	1987	H	SER	127	13.231	2.242	-8.709	1.00	0.00
ATOM	1988	CA	SER	127	12.797	2.801	-10.750	1.00	0.00
ATOM	1989	HA	SER	127	13.470	3.642	-10.583	1.00	0.00
ATOM	1990	CB	SER	127	13.331	1.973	-11.921	1.00	0.00
ATOM	1991	HB2	SER	127	14.411	2.100	-11.994	1.00	0.00
ATOM	1992	HB3	SER	127	13.101	0.920	-11.757	1.00	0.00
ATOM	1993	OG	SER	127	12.721	2.408	-13.127	1.00	0.00
ATOM	1994	HG	SER	127	13.057	1.888	-13.861	1.00	0.00
ATOM	1995	C	SER	127	11.399	3.323	-11.093	1.00	0.00
ATOM	1996	O	SER	127	10.450	2.861	-10.482	1.00	0.00
ATOM	1997	OXT	SER	127	11.303	4.178	-11.958	1.00	0.00
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ATOM	1998	S1	LIG	128	27.707	-9.416	-10.752	1.00	0.00
ATOM	1999	O1	LIG	128	27.878	-10.790	-9.908	1.00	0.00
ATOM	2000	O2	LIG	128	29.059	-9.551	-11.624	1.00	0.00
ATOM	2001	H26	LIG	128	29.827	-9.347	-11.070	1.00	0.00

ATOM	2002	O3	LIG	128	26.609	-9.533	-11.680	1.00	0.00
ATOM	2003	O4	LIG	128	27.820	-8.289	-9.849	1.00	0.00
ATOM	2004	C1	LIG	128	25.655	-16.077	-5.048	1.00	0.00
ATOM	2005	H1	LIG	128	25.852	-16.845	-5.806	1.00	0.00
ATOM	2006	H2	LIG	128	26.592	-15.954	-4.489	1.00	0.00
ATOM	2007	C2	LIG	128	24.561	-16.575	-4.096	1.00	0.00
ATOM	2008	H3	LIG	128	23.625	-16.698	-4.654	1.00	0.00
ATOM	2009	H4	LIG	128	24.364	-15.806	-3.337	1.00	0.00
ATOM	2010	C3	LIG	128	25.305	-14.757	-5.744	1.00	0.00
ATOM	2011	H5	LIG	128	25.110	-13.988	-4.985	1.00	0.00
ATOM	2012	H6	LIG	128	24.367	-14.880	-6.301	1.00	0.00
ATOM	2013	C4	LIG	128	24.910	-17.894	-3.397	1.00	0.00
ATOM	2014	H7	LIG	128	25.847	-17.771	-2.838	1.00	0.00
ATOM	2015	H8	LIG	128	25.109	-18.663	-4.155	1.00	0.00
ATOM	2016	C5	LIG	128	26.397	-14.260	-6.699	1.00	0.00
ATOM	2017	H9	LIG	128	27.336	-14.139	-6.144	1.00	0.00
ATOM	2018	H10	LIG	128	26.590	-15.026	-7.460	1.00	0.00
ATOM	2019	C6	LIG	128	23.816	-18.394	-2.446	1.00	0.00
ATOM	2020	H11	LIG	128	22.880	-18.516	-3.005	1.00	0.00
ATOM	2021	H12	LIG	128	23.618	-17.624	-1.687	1.00	0.00
ATOM	2022	C7	LIG	128	26.045	-12.939	-7.391	1.00	0.00
ATOM	2023	H13	LIG	128	25.104	-13.060	-7.943	1.00	0.00

ATOM	2024	H14	LIG	128	25.857	-12.171	-6.629	1.00	0.00
ATOM	2025	C8	LIG	128	24.164	-19.713	-1.747	1.00	0.00
ATOM	2026	H15	LIG	128	24.362	-20.483	-2.505	1.00	0.00
ATOM	2027	H16	LIG	128	25.101	-19.591	-1.189	1.00	0.00
ATOM	2028	C9	LIG	128	27.143	-12.455	-8.347	1.00	0.00
ATOM	2029	H17	LIG	128	27.322	-13.206	-9.124	1.00	0.00
ATOM	2030	H18	LIG	128	28.083	-12.324	-7.803	1.00	0.00
ATOM	2031	C10	LIG	128	23.071	-20.213	-0.795	1.00	0.00
ATOM	2032	H19	LIG	128	22.135	-20.334	-1.354	1.00	0.00
ATOM	2033	H20	LIG	128	22.874	-19.444	-0.038	1.00	0.00
ATOM	2034	C11	LIG	128	26.772	-11.143	-9.012	1.00	0.00
ATOM	2035	H21	LIG	128	25.863	-11.236	-9.612	1.00	0.00
ATOM	2036	H22	LIG	128	26.648	-10.338	-8.282	1.00	0.00
ATOM	2037	C12	LIG	128	23.428	-21.532	-0.103	1.00	0.00
ATOM	2038	H23	LIG	128	24.342	-21.432	0.491	1.00	0.00
ATOM	2039	H24	LIG	128	22.630	-21.859	0.569	1.00	0.00
ATOM	2040	H25	LIG	128	23.595	-22.329	-0.834	1.00	0.00
TER									
ATOM	2041	S1	LIG	129	-22.059	6.341	2.565	1.00	0.00
ATOM	2042	O1	LIG	129	-22.003	7.720	3.415	1.00	0.00
ATOM	2043	O2	LIG	129	-20.877	5.574	3.354	1.00	0.00
ATOM	2044	H26	LIG	129	-20.018	5.936	3.088	1.00	0.00

ATOM	2045	O3	LIG	129	-23.276	5.624	2.855	1.00	0.00
ATOM	2046	O4	LIG	129	-21.642	6.608	1.203	1.00	0.00
ATOM	2047	C1	LIG	129	-24.387	14.577	5.366	1.00	0.00
ATOM	2048	H1	LIG	129	-24.423	14.257	6.415	1.00	0.00
ATOM	2049	H2	LIG	129	-23.377	14.973	5.203	1.00	0.00
ATOM	2050	C2	LIG	129	-25.409	15.699	5.144	1.00	0.00
ATOM	2051	H3	LIG	129	-26.420	15.304	5.308	1.00	0.00
ATOM	2052	H4	LIG	129	-25.375	16.018	4.095	1.00	0.00
ATOM	2053	C3	LIG	129	-24.607	13.362	4.459	1.00	0.00
ATOM	2054	H5	LIG	129	-24.569	13.681	3.409	1.00	0.00
ATOM	2055	H6	LIG	129	-25.619	12.968	4.621	1.00	0.00
ATOM	2056	C4	LIG	129	-25.191	16.916	6.050	1.00	0.00
ATOM	2057	H7	LIG	129	-24.180	17.312	5.886	1.00	0.00
ATOM	2058	H8	LIG	129	-25.225	16.597	7.099	1.00	0.00
ATOM	2059	C5	LIG	129	-23.587	12.239	4.682	1.00	0.00
ATOM	2060	H9	LIG	129	-22.575	12.632	4.524	1.00	0.00
ATOM	2061	H10	LIG	129	-23.627	11.916	5.730	1.00	0.00
ATOM	2062	C6	LIG	129	-26.213	18.037	5.830	1.00	0.00
ATOM	2063	H11	LIG	129	-27.224	17.641	5.993	1.00	0.00
ATOM	2064	H12	LIG	129	-26.179	18.357	4.779	1.00	0.00
ATOM	2065	C7	LIG	129	-23.808	11.026	3.772	1.00	0.00
ATOM	2066	H13	LIG	129	-24.821	10.636	3.930	1.00	0.00



ATOM	2067	H14	LIG	129	-23.763	11.349	2.724	1.00	0.00
ATOM	2068	C8	LIG	129	-25.996	19.255	6.735	1.00	0.00
ATOM	2069	H15	LIG	129	-26.031	18.937	7.785	1.00	0.00
ATOM	2070	H16	LIG	129	-24.985	19.651	6.572	1.00	0.00
ATOM	2071	C9	LIG	129	-22.784	9.908	4.009	1.00	0.00
ATOM	2072	H17	LIG	129	-22.837	9.564	5.047	1.00	0.00
ATOM	2073	H18	LIG	129	-21.770	10.287	3.846	1.00	0.00
ATOM	2074	C10	LIG	129	-27.018	20.377	6.515	1.00	0.00
ATOM	2075	H19	LIG	129	-28.027	19.981	6.677	1.00	0.00
ATOM	2076	H20	LIG	129	-26.982	20.696	5.466	1.00	0.00
ATOM	2077	C11	LIG	129	-23.022	8.725	3.090	1.00	0.00
ATOM	2078	H21	LIG	129	-24.006	8.278	3.252	1.00	0.00
ATOM	2079	H22	LIG	129	-22.912	8.999	2.038	1.00	0.00
ATOM	2080	C12	LIG	129	-26.792	21.588	7.425	1.00	0.00
ATOM	2081	H23	LIG	129	-25.802	22.027	7.261	1.00	0.00
ATOM	2082	H24	LIG	129	-27.535	22.369	7.242	1.00	0.00
ATOM	2083	H25	LIG	129	-26.857	21.308	8.480	1.00	0.00
TER									
ATOM	2084	S1	LIG	130	12.831	-11.733	22.757	1.00	0.00
ATOM	2085	O1	LIG	130	14.379	-11.262	22.862	1.00	0.00
ATOM	2086	O2	LIG	130	12.255	-10.373	22.105	1.00	0.00
ATOM	2087	H26	LIG	130	12.206	-9.681	22.782	1.00	0.00

ATOM	2088	O3	LIG	130	12.687	-12.759	21.755	1.00	0.00
ATOM	2089	O4	LIG	130	12.295	-11.897	24.094	1.00	0.00
ATOM	2090	C1	LIG	130	21.687	-12.279	24.302	1.00	0.00
ATOM	2091	H1	LIG	130	21.928	-11.898	23.302	1.00	0.00
ATOM	2092	H2	LIG	130	21.675	-11.405	24.966	1.00	0.00
ATOM	2093	C2	LIG	130	22.789	-13.243	24.757	1.00	0.00
ATOM	2094	H3	LIG	130	22.801	-14.117	24.093	1.00	0.00
ATOM	2095	H4	LIG	130	22.547	-13.625	25.757	1.00	0.00
ATOM	2096	C3	LIG	130	20.292	-12.914	24.278	1.00	0.00
ATOM	2097	H5	LIG	130	20.049	-13.293	25.280	1.00	0.00
ATOM	2098	H6	LIG	130	20.304	-13.790	23.617	1.00	0.00
ATOM	2099	C4	LIG	130	24.186	-12.610	24.782	1.00	0.00
ATOM	2100	H7	LIG	130	24.174	-11.736	25.447	1.00	0.00
ATOM	2101	H8	LIG	130	24.427	-12.227	23.782	1.00	0.00
ATOM	2102	C5	LIG	130	19.189	-11.952	23.821	1.00	0.00
ATOM	2103	H9	LIG	130	19.177	-11.074	24.481	1.00	0.00
ATOM	2104	H10	LIG	130	19.429	-11.575	22.819	1.00	0.00
ATOM	2105	C6	LIG	130	25.289	-13.573	25.235	1.00	0.00
ATOM	2106	H11	LIG	130	25.300	-14.448	24.572	1.00	0.00
ATOM	2107	H12	LIG	130	25.047	-13.956	26.236	1.00	0.00
ATOM	2108	C7	LIG	130	17.795	-12.588	23.801	1.00	0.00
ATOM	2109	H13	LIG	130	17.809	-13.467	23.144	1.00	0.00

ATOM	2110	H14	LIG	130	17.554	-12.960	24.806	1.00	0.00
ATOM	2111	C8	LIG	130	26.685	-12.942	25.261	1.00	0.00
ATOM	2112	H15	LIG	130	26.929	-12.559	24.261	1.00	0.00
ATOM	2113	H16	LIG	130	26.674	-12.067	25.924	1.00	0.00
ATOM	2114	C9	LIG	130	16.702	-11.617	23.337	1.00	0.00
ATOM	2115	H17	LIG	130	16.923	-11.257	22.327	1.00	0.00
ATOM	2116	H18	LIG	130	16.676	-10.740	23.992	1.00	0.00
ATOM	2117	C10	LIG	130	27.789	-13.904	25.714	1.00	0.00
ATOM	2118	H19	LIG	130	27.799	-14.778	25.052	1.00	0.00
ATOM	2119	H20	LIG	130	27.546	-14.285	26.714	1.00	0.00
ATOM	2120	C11	LIG	130	15.333	-12.271	23.334	1.00	0.00
ATOM	2121	H21	LIG	130	15.294	-13.124	22.653	1.00	0.00
ATOM	2122	H22	LIG	130	15.032	-12.588	24.336	1.00	0.00
ATOM	2123	C12	LIG	130	29.180	-13.263	25.736	1.00	0.00
ATOM	2124	H23	LIG	130	29.209	-12.406	26.417	1.00	0.00
ATOM	2125	H24	LIG	130	29.942	-13.974	26.065	1.00	0.00
ATOM	2126	H25	LIG	130	29.466	-12.905	24.742	1.00	0.00
TER									
ATOM	2127	S1	LIG	131	-0.775	-14.715	23.850	1.00	0.00
ATOM	2128	O1	LIG	131	-2.025	-13.869	24.443	1.00	0.00
ATOM	2129	O2	LIG	131	-0.858	-15.946	24.892	1.00	0.00
ATOM	2130	H26	LIG	131	-0.516	-15.667	25.755	1.00	0.00

ATOM	2131	O3	LIG	131	-1.105	-15.254	22.555	1.00	0.00
ATOM	2132	O4	LIG	131	0.448	-13.970	24.073	1.00	0.00
ATOM	2133	C1	LIG	131	-6.969	-8.206	24.468	1.00	0.00
ATOM	2134	H1	LIG	131	-7.788	-8.933	24.534	1.00	0.00
ATOM	2135	H2	LIG	131	-6.689	-7.969	25.502	1.00	0.00
ATOM	2136	C2	LIG	131	-7.475	-6.934	23.778	1.00	0.00
ATOM	2137	H3	LIG	131	-7.756	-7.171	22.744	1.00	0.00
ATOM	2138	H4	LIG	131	-6.656	-6.207	23.711	1.00	0.00
ATOM	2139	C3	LIG	131	-5.775	-8.853	23.757	1.00	0.00
ATOM	2140	H5	LIG	131	-4.954	-8.127	23.693	1.00	0.00
ATOM	2141	H6	LIG	131	-6.055	-9.088	22.721	1.00	0.00
ATOM	2142	C4	LIG	131	-8.669	-6.284	24.488	1.00	0.00
ATOM	2143	H7	LIG	131	-8.388	-6.046	25.523	1.00	0.00
ATOM	2144	H8	LIG	131	-9.488	-7.011	24.556	1.00	0.00
ATOM	2145	C5	LIG	131	-5.270	-10.127	24.444	1.00	0.00
ATOM	2146	H9	LIG	131	-4.992	-9.894	25.480	1.00	0.00
ATOM	2147	H10	LIG	131	-6.089	-10.855	24.505	1.00	0.00
ATOM	2148	C6	LIG	131	-9.177	-5.013	23.799	1.00	0.00
ATOM	2149	H11	LIG	131	-9.456	-5.250	22.765	1.00	0.00
ATOM	2150	H12	LIG	131	-8.356	-4.285	23.731	1.00	0.00
ATOM	2151	C7	LIG	131	-4.075	-10.770	23.732	1.00	0.00
ATOM	2152	H13	LIG	131	-4.353	-11.000	22.695	1.00	0.00

ATOM	2153	H14	LIG	131	-3.255	-10.043	23.676	1.00	0.00
ATOM	2154	C8	LIG	131	-10.370	-4.363	24.508	1.00	0.00
ATOM	2155	H15	LIG	131	-11.191	-5.089	24.576	1.00	0.00
ATOM	2156	H16	LIG	131	-10.090	-4.126	25.543	1.00	0.00
ATOM	2157	C9	LIG	131	-3.582	-12.047	24.426	1.00	0.00
ATOM	2158	H17	LIG	131	-4.389	-12.786	24.468	1.00	0.00
ATOM	2159	H18	LIG	131	-3.296	-11.825	25.459	1.00	0.00
ATOM	2160	C10	LIG	131	-10.878	-3.091	23.820	1.00	0.00
ATOM	2161	H19	LIG	131	-11.157	-3.328	22.786	1.00	0.00
ATOM	2162	H20	LIG	131	-10.058	-2.365	23.754	1.00	0.00
ATOM	2163	C11	LIG	131	-2.396	-12.657	23.705	1.00	0.00
ATOM	2164	H21	LIG	131	-2.648	-12.943	22.681	1.00	0.00
ATOM	2165	H22	LIG	131	-1.535	-11.982	23.696	1.00	0.00
ATOM	2166	C12	LIG	131	-12.071	-2.450	24.536	1.00	0.00
ATOM	2167	H23	LIG	131	-11.812	-2.171	25.562	1.00	0.00
ATOM	2168	H24	LIG	131	-12.407	-1.546	24.021	1.00	0.00
ATOM	2169	H25	LIG	131	-12.919	-3.139	24.586	1.00	0.00
TER									
ATOM	2170	S1	LIG	132	20.589	17.402	-25.063	1.00	0.00
ATOM	2171	O1	LIG	132	20.783	15.973	-25.805	1.00	0.00
ATOM	2172	O2	LIG	132	20.110	18.235	-26.362	1.00	0.00
ATOM	2173	H26	LIG	132	20.871	18.411	-26.936	1.00	0.00

ATOM	2174	O3	LIG	132	19.458	17.353	-24.170	1.00	0.00
ATOM	2175	O4	LIG	132	21.882	17.887	-24.624	1.00	0.00
ATOM	2176	C1	LIG	132	22.213	8.597	-26.029	1.00	0.00
ATOM	2177	H1	LIG	132	21.276	8.440	-26.578	1.00	0.00
ATOM	2178	H2	LIG	132	22.985	8.771	-26.789	1.00	0.00
ATOM	2179	C2	LIG	132	22.558	7.326	-25.243	1.00	0.00
ATOM	2180	H3	LIG	132	21.786	7.150	-24.483	1.00	0.00
ATOM	2181	H4	LIG	132	23.495	7.482	-24.693	1.00	0.00
ATOM	2182	C3	LIG	132	22.081	9.843	-25.147	1.00	0.00
ATOM	2183	H5	LIG	132	23.019	10.001	-24.599	1.00	0.00
ATOM	2184	H6	LIG	132	21.310	9.667	-24.385	1.00	0.00
ATOM	2185	C4	LIG	132	22.692	6.077	-26.123	1.00	0.00
ATOM	2186	H7	LIG	132	23.465	6.252	-26.883	1.00	0.00
ATOM	2187	H8	LIG	132	21.756	5.921	-26.674	1.00	0.00
ATOM	2188	C5	LIG	132	21.733	11.114	-25.931	1.00	0.00
ATOM	2189	H9	LIG	132	22.502	11.290	-26.695	1.00	0.00
ATOM	2190	H10	LIG	132	20.793	10.958	-26.476	1.00	0.00
ATOM	2191	C6	LIG	132	23.036	4.806	-25.338	1.00	0.00
ATOM	2192	H11	LIG	132	22.263	4.632	-24.578	1.00	0.00
ATOM	2193	H12	LIG	132	23.973	4.963	-24.787	1.00	0.00
ATOM	2194	C7	LIG	132	21.604	12.359	-25.047	1.00	0.00
ATOM	2195	H13	LIG	132	20.837	12.181	-24.282	1.00	0.00

ATOM	2196	H14	LIG	132	22.546	12.517	-24.506	1.00	0.00
ATOM	2197	C8	LIG	132	23.170	3.558	-26.217	1.00	0.00
ATOM	2198	H15	LIG	132	22.233	3.399	-26.768	1.00	0.00
ATOM	2199	H16	LIG	132	23.942	3.733	-26.978	1.00	0.00
ATOM	2200	C9	LIG	132	21.251	13.622	-25.843	1.00	0.00
ATOM	2201	H17	LIG	132	20.301	13.482	-26.369	1.00	0.00
ATOM	2202	H18	LIG	132	22.015	13.812	-26.603	1.00	0.00
ATOM	2203	C10	LIG	132	23.514	2.286	-25.434	1.00	0.00
ATOM	2204	H19	LIG	132	22.742	2.112	-24.674	1.00	0.00
ATOM	2205	H20	LIG	132	24.450	2.443	-24.885	1.00	0.00
ATOM	2206	C11	LIG	132	21.137	14.839	-24.945	1.00	0.00
ATOM	2207	H21	LIG	132	20.349	14.718	-24.197	1.00	0.00
ATOM	2208	H22	LIG	132	22.083	15.066	-24.446	1.00	0.00
ATOM	2209	C12	LIG	132	23.645	1.044	-26.321	1.00	0.00
ATOM	2210	H23	LIG	132	24.433	1.176	-27.070	1.00	0.00
ATOM	2211	H24	LIG	132	23.892	0.157	-25.733	1.00	0.00
ATOM	2212	H25	LIG	132	22.713	0.840	-26.856	1.00	0.00
TER									
ATOM	2213	S1	LIG	133	-25.726	0.261	17.108	1.00	0.00
ATOM	2214	O1	LIG	133	-26.264	-0.834	18.176	1.00	0.00
ATOM	2215	O2	LIG	133	-25.991	-0.615	15.778	1.00	0.00
ATOM	2216	H26	LIG	133	-25.319	-1.309	15.704	1.00	0.00

ATOM	2217	O3	LIG	133	-26.629	1.383	17.045	1.00	0.00
ATOM	2218	O4	LIG	133	-24.300	0.444	17.295	1.00	0.00
ATOM	2219	C1	LIG	133	-28.135	-3.246	25.046	1.00	0.00
ATOM	2220	H1	LIG	133	-29.119	-3.546	24.664	1.00	0.00
ATOM	2221	H2	LIG	133	-27.481	-4.118	24.916	1.00	0.00
ATOM	2222	C2	LIG	133	-28.250	-2.921	26.540	1.00	0.00
ATOM	2223	H3	LIG	133	-28.905	-2.050	26.670	1.00	0.00
ATOM	2224	H4	LIG	133	-27.266	-2.621	26.922	1.00	0.00
ATOM	2225	C3	LIG	133	-27.599	-2.082	24.206	1.00	0.00
ATOM	2226	H5	LIG	133	-26.613	-1.784	24.587	1.00	0.00
ATOM	2227	H6	LIG	133	-28.253	-1.210	24.338	1.00	0.00
ATOM	2228	C4	LIG	133	-28.785	-4.084	27.382	1.00	0.00
ATOM	2229	H7	LIG	133	-28.130	-4.956	27.253	1.00	0.00
ATOM	2230	H8	LIG	133	-29.769	-4.386	27.000	1.00	0.00
ATOM	2231	C5	LIG	133	-27.486	-2.406	22.712	1.00	0.00
ATOM	2232	H9	LIG	133	-26.835	-3.279	22.578	1.00	0.00
ATOM	2233	H10	LIG	133	-28.472	-2.700	22.329	1.00	0.00
ATOM	2234	C6	LIG	133	-28.902	-3.759	28.876	1.00	0.00
ATOM	2235	H11	LIG	133	-29.556	-2.888	29.006	1.00	0.00
ATOM	2236	H12	LIG	133	-27.917	-3.458	29.259	1.00	0.00
ATOM	2237	C7	LIG	133	-26.947	-1.240	21.875	1.00	0.00
ATOM	2238	H13	LIG	133	-27.598	-0.367	22.011	1.00	0.00



ATOM	2239	H14	LIG	133	-25.960	-0.950	22.255	1.00	0.00
ATOM	2240	C8	LIG	133	-29.436	-4.922	29.719	1.00	0.00
ATOM	2241	H15	LIG	133	-30.421	-5.224	29.338	1.00	0.00
ATOM	2242	H16	LIG	133	-28.782	-5.794	29.589	1.00	0.00
ATOM	2243	C9	LIG	133	-26.845	-1.575	20.381	1.00	0.00
ATOM	2244	H17	LIG	133	-27.830	-1.846	19.988	1.00	0.00
ATOM	2245	H18	LIG	133	-26.191	-2.441	20.235	1.00	0.00
ATOM	2246	C10	LIG	133	-29.553	-4.598	31.213	1.00	0.00
ATOM	2247	H19	LIG	133	-30.207	-3.727	31.342	1.00	0.00
ATOM	2248	H20	LIG	133	-28.569	-4.299	31.594	1.00	0.00
ATOM	2249	C11	LIG	133	-26.302	-0.408	19.579	1.00	0.00
ATOM	2250	H21	LIG	133	-26.950	0.469	19.652	1.00	0.00
ATOM	2251	H22	LIG	133	-25.288	-0.140	19.886	1.00	0.00
ATOM	2252	C12	LIG	133	-30.089	-5.766	32.046	1.00	0.00
ATOM	2253	H23	LIG	133	-29.438	-6.642	31.963	1.00	0.00
ATOM	2254	H24	LIG	133	-30.159	-5.503	33.105	1.00	0.00
ATOM	2255	H25	LIG	133	-31.087	-6.065	31.712	1.00	0.00
TER									
ATOM	2256	S1	LIG	134	14.040	16.014	-14.168	1.00	0.00
ATOM	2257	O1	LIG	134	15.383	15.880	-15.066	1.00	0.00
ATOM	2258	O2	LIG	134	13.018	16.311	-15.384	1.00	0.00
ATOM	2259	H26	LIG	134	13.138	17.220	-15.697	1.00	0.00

ATOM	2260	O3	LIG	134	13.669	14.730	-13.629	1.00	0.00
ATOM	2261	O4	LIG	134	14.149	17.189	-13.326	1.00	0.00
ATOM	2262	C1	LIG	134	22.678	14.442	-16.171	1.00	0.00
ATOM	2263	H1	LIG	134	22.410	13.736	-16.966	1.00	0.00
ATOM	2264	H2	LIG	134	22.795	15.419	-16.658	1.00	0.00
ATOM	2265	C2	LIG	134	24.018	14.024	-15.553	1.00	0.00
ATOM	2266	H3	LIG	134	23.902	13.047	-15.066	1.00	0.00
ATOM	2267	H4	LIG	134	24.286	14.730	-14.757	1.00	0.00
ATOM	2268	C3	LIG	134	21.534	14.518	-15.155	1.00	0.00
ATOM	2269	H5	LIG	134	21.801	15.226	-14.360	1.00	0.00
ATOM	2270	H6	LIG	134	21.419	13.541	-14.666	1.00	0.00
ATOM	2271	C4	LIG	134	25.165	13.948	-16.568	1.00	0.00
ATOM	2272	H7	LIG	134	25.282	14.926	-17.054	1.00	0.00
ATOM	2273	H8	LIG	134	24.897	13.244	-17.365	1.00	0.00
ATOM	2274	C5	LIG	134	20.193	14.933	-15.772	1.00	0.00
ATOM	2275	H9	LIG	134	20.307	15.908	-16.263	1.00	0.00
ATOM	2276	H10	LIG	134	19.923	14.224	-16.564	1.00	0.00
ATOM	2277	C6	LIG	134	26.504	13.529	-15.951	1.00	0.00
ATOM	2278	H11	LIG	134	26.387	12.553	-15.464	1.00	0.00
ATOM	2279	H12	LIG	134	26.773	14.235	-15.154	1.00	0.00
ATOM	2280	C7	LIG	134	19.052	15.011	-14.753	1.00	0.00
ATOM	2281	H13	LIG	134	18.940	14.036	-14.261	1.00	0.00

ATOM	2282	H14	LIG	134	19.320	15.725	-13.964	1.00	0.00
ATOM	2283	C8	LIG	134	27.652	13.454	-16.965	1.00	0.00
ATOM	2284	H15	LIG	134	27.385	12.747	-17.762	1.00	0.00
ATOM	2285	H16	LIG	134	27.768	14.430	-17.453	1.00	0.00
ATOM	2286	C9	LIG	134	17.715	15.422	-15.384	1.00	0.00
ATOM	2287	H17	LIG	134	17.428	14.703	-16.158	1.00	0.00
ATOM	2288	H18	LIG	134	17.815	16.397	-15.871	1.00	0.00
ATOM	2289	C10	LIG	134	28.992	13.034	-16.349	1.00	0.00
ATOM	2290	H19	LIG	134	28.874	12.059	-15.862	1.00	0.00
ATOM	2291	H20	LIG	134	29.259	13.741	-15.553	1.00	0.00
ATOM	2292	C11	LIG	134	16.606	15.498	-14.352	1.00	0.00
ATOM	2293	H21	LIG	134	16.433	14.531	-13.872	1.00	0.00
ATOM	2294	H22	LIG	134	16.811	16.254	-13.590	1.00	0.00
ATOM	2295	C12	LIG	134	30.131	12.961	-17.370	1.00	0.00
ATOM	2296	H23	LIG	134	30.294	13.932	-17.850	1.00	0.00
ATOM	2297	H24	LIG	134	31.071	12.662	-16.900	1.00	0.00
ATOM	2298	H25	LIG	134	29.909	12.236	-18.160	1.00	0.00
TER									
ATOM	2299	S1	LIG	135	-27.792	4.947	-28.327	1.00	0.00
ATOM	2300	O1	LIG	135	-27.693	6.412	-27.639	1.00	0.00
ATOM	2301	O2	LIG	135	-28.180	4.127	-26.990	1.00	0.00
ATOM	2302	H26	LIG	135	-27.396	4.029	-26.428	1.00	0.00

ATOM	2303	O3	LIG	135	-28.941	4.878	-29.194	1.00	0.00
ATOM	2304	O4	LIG	135	-26.475	4.546	-28.778	1.00	0.00
ATOM	2305	C1	LIG	135	-26.829	13.879	-27.698	1.00	0.00
ATOM	2306	H1	LIG	135	-27.763	13.983	-27.134	1.00	0.00
ATOM	2307	H2	LIG	135	-26.030	13.791	-26.951	1.00	0.00
ATOM	2308	C2	LIG	135	-26.599	15.144	-28.534	1.00	0.00
ATOM	2309	H3	LIG	135	-27.397	15.233	-29.282	1.00	0.00
ATOM	2310	H4	LIG	135	-25.664	15.039	-29.100	1.00	0.00
ATOM	2311	C3	LIG	135	-26.883	12.595	-28.534	1.00	0.00
ATOM	2312	H5	LIG	135	-25.947	12.490	-29.097	1.00	0.00
ATOM	2313	H6	LIG	135	-27.681	12.686	-29.283	1.00	0.00
ATOM	2314	C4	LIG	135	-26.543	16.429	-27.700	1.00	0.00
ATOM	2315	H7	LIG	135	-25.743	16.341	-26.953	1.00	0.00
ATOM	2316	H8	LIG	135	-27.477	16.534	-27.134	1.00	0.00
ATOM	2317	C5	LIG	135	-27.116	11.331	-27.699	1.00	0.00
ATOM	2318	H9	LIG	135	-26.321	11.241	-26.948	1.00	0.00
ATOM	2319	H10	LIG	135	-28.054	11.434	-27.139	1.00	0.00
ATOM	2320	C6	LIG	135	-26.314	17.694	-28.535	1.00	0.00
ATOM	2321	H11	LIG	135	-27.112	17.782	-29.283	1.00	0.00
ATOM	2322	H12	LIG	135	-25.379	17.590	-29.102	1.00	0.00
ATOM	2323	C7	LIG	135	-27.167	10.049	-28.538	1.00	0.00
ATOM	2324	H13	LIG	135	-27.961	10.141	-29.290	1.00	0.00

ATOM	2325	H14	LIG	135	-26.227	9.944	-29.094	1.00	0.00
ATOM	2326	C8	LIG	135	-26.258	18.979	-27.703	1.00	0.00
ATOM	2327	H15	LIG	135	-27.192	19.086	-27.136	1.00	0.00
ATOM	2328	H16	LIG	135	-25.459	18.891	-26.954	1.00	0.00
ATOM	2329	C9	LIG	135	-27.407	8.791	-27.691	1.00	0.00
ATOM	2330	H17	LIG	135	-28.354	8.878	-27.149	1.00	0.00
ATOM	2331	H18	LIG	135	-26.615	8.688	-26.942	1.00	0.00
ATOM	2332	C10	LIG	135	-26.029	20.245	-28.537	1.00	0.00
ATOM	2333	H19	LIG	135	-26.826	20.333	-29.284	1.00	0.00
ATOM	2334	H20	LIG	135	-25.094	20.140	-29.101	1.00	0.00
ATOM	2335	C11	LIG	135	-27.445	7.538	-28.545	1.00	0.00
ATOM	2336	H21	LIG	135	-28.255	7.573	-29.277	1.00	0.00
ATOM	2337	H22	LIG	135	-26.495	7.366	-29.057	1.00	0.00
ATOM	2338	C12	LIG	135	-25.975	21.524	-27.695	1.00	0.00
ATOM	2339	H23	LIG	135	-25.164	21.480	-26.961	1.00	0.00
ATOM	2340	H24	LIG	135	-25.809	22.406	-28.319	1.00	0.00
ATOM	2341	H25	LIG	135	-26.909	21.676	-27.146	1.00	0.00
TER									
ATOM	2342	S1	LIG	136	9.458	-8.749	-24.880	1.00	0.00
ATOM	2343	O1	LIG	136	9.818	-7.176	-25.035	1.00	0.00
ATOM	2344	O2	LIG	136	8.667	-8.634	-23.477	1.00	0.00
ATOM	2345	H26	LIG	136	9.301	-8.504	-22.755	1.00	0.00

ATOM	2346	O3	LIG	136	8.483	-9.138	-25.868	1.00	0.00
ATOM	2347	O4	LIG	136	10.684	-9.498	-24.688	1.00	0.00
ATOM	2348	C1	LIG	136	12.561	-1.175	-28.637	1.00	0.00
ATOM	2349	H1	LIG	136	11.607	-0.656	-28.483	1.00	0.00
ATOM	2350	H2	LIG	136	13.182	-0.937	-27.764	1.00	0.00
ATOM	2351	C2	LIG	136	13.236	-0.627	-29.900	1.00	0.00
ATOM	2352	H3	LIG	136	12.616	-0.864	-30.774	1.00	0.00
ATOM	2353	H4	LIG	136	14.191	-1.146	-30.055	1.00	0.00
ATOM	2354	C3	LIG	136	12.313	-2.687	-28.684	1.00	0.00
ATOM	2355	H5	LIG	136	13.269	-3.206	-28.837	1.00	0.00
ATOM	2356	H6	LIG	136	11.695	-2.925	-29.560	1.00	0.00
ATOM	2357	C4	LIG	136	13.486	0.885	-29.856	1.00	0.00
ATOM	2358	H7	LIG	136	14.108	1.124	-28.982	1.00	0.00
ATOM	2359	H8	LIG	136	12.532	1.405	-29.699	1.00	0.00
ATOM	2360	C5	LIG	136	11.636	-3.235	-27.423	1.00	0.00
ATOM	2361	H9	LIG	136	12.252	-2.996	-26.547	1.00	0.00
ATOM	2362	H10	LIG	136	10.679	-2.720	-27.272	1.00	0.00
ATOM	2363	C6	LIG	136	14.160	1.435	-31.118	1.00	0.00
ATOM	2364	H11	LIG	136	13.540	1.196	-31.991	1.00	0.00
ATOM	2365	H12	LIG	136	15.115	0.915	-31.274	1.00	0.00
ATOM	2366	C7	LIG	136	11.392	-4.748	-27.472	1.00	0.00
ATOM	2367	H13	LIG	136	10.778	-4.986	-28.350	1.00	0.00

ATOM	2368	H14	LIG	136	12.350	-5.263	-27.618	1.00	0.00
ATOM	2369	C8	LIG	136	14.410	2.946	-31.074	1.00	0.00
ATOM	2370	H15	LIG	136	13.456	3.467	-30.919	1.00	0.00
ATOM	2371	H16	LIG	136	15.031	3.185	-30.200	1.00	0.00
ATOM	2372	C9	LIG	136	10.708	-5.283	-26.207	1.00	0.00
ATOM	2373	H17	LIG	136	9.741	-4.790	-26.065	1.00	0.00
ATOM	2374	H18	LIG	136	11.318	-5.056	-25.327	1.00	0.00
ATOM	2375	C10	LIG	136	15.085	3.497	-32.336	1.00	0.00
ATOM	2376	H19	LIG	136	14.465	3.257	-33.209	1.00	0.00
ATOM	2377	H20	LIG	136	16.039	2.977	-32.490	1.00	0.00
ATOM	2378	C11	LIG	136	10.486	-6.782	-26.280	1.00	0.00
ATOM	2379	H21	LIG	136	9.839	-7.055	-27.116	1.00	0.00
ATOM	2380	H22	LIG	136	11.430	-7.329	-26.353	1.00	0.00
ATOM	2381	C12	LIG	136	15.329	5.008	-32.282	1.00	0.00
ATOM	2382	H23	LIG	136	15.974	5.274	-31.439	1.00	0.00
ATOM	2383	H24	LIG	136	15.812	5.367	-33.195	1.00	0.00
ATOM	2384	H25	LIG	136	14.390	5.556	-32.165	1.00	0.00
TER									
ATOM	2385	S1	LIG	137	-17.752	-20.911	-30.591	1.00	0.00
ATOM	2386	O1	LIG	137	-17.419	-20.643	-29.027	1.00	0.00
ATOM	2387	O2	LIG	137	-16.280	-20.577	-31.166	1.00	0.00
ATOM	2388	H26	LIG	137	-16.135	-19.619	-31.156	1.00	0.00

ATOM	2389	O3	LIG	137	-17.971	-22.317	-30.822	1.00	0.00
ATOM	2390	O4	LIG	137	-18.693	-19.910	-31.053	1.00	0.00
ATOM	2391	C1	LIG	137	-19.005	-20.570	-21.679	1.00	0.00
ATOM	2392	H1	LIG	137	-18.096	-21.154	-21.486	1.00	0.00
ATOM	2393	H2	LIG	137	-18.706	-19.515	-21.627	1.00	0.00
ATOM	2394	C2	LIG	137	-20.034	-20.857	-20.580	1.00	0.00
ATOM	2395	H3	LIG	137	-20.334	-21.911	-20.631	1.00	0.00
ATOM	2396	H4	LIG	137	-20.944	-20.273	-20.773	1.00	0.00
ATOM	2397	C3	LIG	137	-19.515	-20.881	-23.090	1.00	0.00
ATOM	2398	H5	LIG	137	-20.423	-20.295	-23.285	1.00	0.00
ATOM	2399	H6	LIG	137	-19.817	-21.936	-23.141	1.00	0.00
ATOM	2400	C4	LIG	137	-19.526	-20.545	-19.167	1.00	0.00
ATOM	2401	H7	LIG	137	-19.227	-19.489	-19.115	1.00	0.00
ATOM	2402	H8	LIG	137	-18.616	-21.127	-18.973	1.00	0.00
ATOM	2403	C5	LIG	137	-18.486	-20.598	-24.190	1.00	0.00
ATOM	2404	H9	LIG	137	-18.181	-19.544	-24.139	1.00	0.00
ATOM	2405	H10	LIG	137	-17.579	-21.186	-23.999	1.00	0.00
ATOM	2406	C6	LIG	137	-20.554	-20.832	-18.067	1.00	0.00
ATOM	2407	H11	LIG	137	-20.854	-21.887	-18.119	1.00	0.00
ATOM	2408	H12	LIG	137	-21.465	-20.249	-18.261	1.00	0.00
ATOM	2409	C7	LIG	137	-19.000	-20.908	-25.600	1.00	0.00
ATOM	2410	H13	LIG	137	-19.307	-21.960	-25.650	1.00	0.00



ATOM	2411	H14	LIG	137	-19.904	-20.315	-25.793	1.00	0.00
ATOM	2412	C8	LIG	137	-20.048	-20.521	-16.654	1.00	0.00
ATOM	2413	H15	LIG	137	-19.138	-21.104	-16.459	1.00	0.00
ATOM	2414	H16	LIG	137	-19.747	-19.466	-16.602	1.00	0.00
ATOM	2415	C9	LIG	137	-17.959	-20.625	-26.691	1.00	0.00
ATOM	2416	H17	LIG	137	-17.061	-21.228	-26.519	1.00	0.00
ATOM	2417	H18	LIG	137	-17.653	-19.574	-26.654	1.00	0.00
ATOM	2418	C10	LIG	137	-21.075	-20.808	-15.553	1.00	0.00
ATOM	2419	H19	LIG	137	-21.374	-21.861	-15.606	1.00	0.00
ATOM	2420	H20	LIG	137	-21.983	-20.224	-15.747	1.00	0.00
ATOM	2421	C11	LIG	137	-18.497	-20.933	-28.075	1.00	0.00
ATOM	2422	H21	LIG	137	-18.770	-21.986	-28.178	1.00	0.00
ATOM	2423	H22	LIG	137	-19.357	-20.306	-28.326	1.00	0.00
ATOM	2424	C12	LIG	137	-20.558	-20.494	-14.146	1.00	0.00
ATOM	2425	H23	LIG	137	-20.282	-19.438	-14.052	1.00	0.00
ATOM	2426	H24	LIG	137	-21.314	-20.707	-13.386	1.00	0.00
ATOM	2427	H25	LIG	137	-19.671	-21.089	-13.908	1.00	0.00
TER									
END									

**Table D:** The number of atoms present in the system of AH-Sum

ATOM	1	N	GLY	1	25.126	-11.130	-1.248	1.00	0.00
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ATOM	2	H1	GLY	1	24.425	-10.415	-1.372	1.00	0.00
ATOM	3	H2	GLY	1	24.741	-12.017	-1.540	1.00	0.00
ATOM	4	H3	GLY	1	25.997	-10.804	-1.643	1.00	0.00
ATOM	5	CA	GLY	1	25.386	-11.275	0.212	1.00	0.00
ATOM	6	HA2	GLY	1	25.154	-12.291	0.533	1.00	0.00
ATOM	7	HA3	GLY	1	26.432	-11.057	0.428	1.00	0.00
ATOM	8	C	GLY	1	24.502	-10.294	0.986	1.00	0.00
ATOM	9	O	GLY	1	24.973	-9.305	1.513	1.00	0.00
ATOM	10	N	PRO	2	23.195	-10.579	1.052	1.00	0.00
ATOM	11	CD	PRO	2	22.552	-11.755	0.440	1.00	0.00
ATOM	12	HD2	PRO	2	23.113	-12.653	0.701	1.00	0.00
ATOM	13	HD3	PRO	2	22.538	-11.639	-0.644	1.00	0.00
ATOM	14	CG	PRO	2	21.173	-11.742	1.035	1.00	0.00
ATOM	15	HG2	PRO	2	21.157	-12.376	1.922	1.00	0.00
ATOM	16	HG3	PRO	2	20.461	-12.124	0.304	1.00	0.00
ATOM	17	CB	PRO	2	20.877	-10.321	1.375	1.00	0.00
ATOM	18	HB2	PRO	2	20.208	-10.307	2.235	1.00	0.00
ATOM	19	HB3	PRO	2	20.436	-9.744	0.562	1.00	0.00
ATOM	20	CA	PRO	2	22.231	-9.727	1.761	1.00	0.00
ATOM	21	HA	PRO	2	22.370	-8.700	1.425	1.00	0.00
ATOM	22	C	PRO	2	22.420	-9.797	3.279	1.00	0.00
ATOM	23	O	PRO	2	21.975	-8.934	4.010	1.00	0.00

ATOM	24	N	MET	3	23.076	-10.818	3.758	1.00	0.00
ATOM	25	H	MET	3	23.449	-11.540	3.157	1.00	0.00
ATOM	26	CA	MET	3	23.291	-10.941	5.228	1.00	0.00
ATOM	27	HA	MET	3	22.335	-11.029	5.744	1.00	0.00
ATOM	28	CB	MET	3	24.120	-12.194	5.518	1.00	0.00
ATOM	29	HB2	MET	3	25.053	-12.152	4.955	1.00	0.00
ATOM	30	HB3	MET	3	24.342	-12.246	6.584	1.00	0.00
ATOM	31	CG	MET	3	23.329	-13.436	5.101	1.00	0.00
ATOM	32	HG2	MET	3	23.142	-13.411	4.027	1.00	0.00
ATOM	33	HG3	MET	3	23.895	-14.334	5.350	1.00	0.00
ATOM	34	SD	MET	3	21.747	-13.467	5.980	1.00	0.00
ATOM	35	CE	MET	3	22.421	-13.545	7.658	1.00	0.00
ATOM	36	HE1	MET	3	23.038	-12.666	7.844	1.00	0.00
ATOM	37	HE2	MET	3	21.603	-13.573	8.378	1.00	0.00
ATOM	38	HE3	MET	3	23.029	-14.444	7.765	1.00	0.00
ATOM	39	C	MET	3	24.035	-9.706	5.739	1.00	0.00
ATOM	40	O	MET	3	23.789	-9.228	6.829	1.00	0.00
ATOM	41	N	ARG	4	24.945	-9.185	4.961	1.00	0.00
ATOM	42	H	ARG	4	25.157	-9.578	4.055	1.00	0.00
ATOM	43	CA	ARG	4	25.702	-7.981	5.403	1.00	0.00
ATOM	44	HA	ARG	4	26.286	-8.209	6.295	1.00	0.00
ATOM	45	CB	ARG	4	26.657	-7.541	4.292	1.00	0.00

ATOM	46	HB2 ARG	4	26.094	-7.374	3.374	1.00	0.00
ATOM	47	HB3 ARG	4	27.155	-6.617	4.586	1.00	0.00
ATOM	48	CG ARG	4	27.704	-8.631	4.056	1.00	0.00
ATOM	49	HG2 ARG	4	28.209	-8.860	4.994	1.00	0.00
ATOM	50	HG3 ARG	4	27.216	-9.530	3.679	1.00	0.00
ATOM	51	CD ARG	4	28.729	-8.140	3.032	1.00	0.00
ATOM	52	HD2 ARG	4	29.251	-7.262	3.412	1.00	0.00
ATOM	53	HD3 ARG	4	29.452	-8.927	2.815	1.00	0.00
ATOM	54	NE ARG	4	28.032	-7.771	1.769	1.00	0.00
ATOM	55	HE ARG	4	27.685	-8.476	1.134	1.00	0.00
ATOM	56	CZ ARG	4	27.858	-6.514	1.461	1.00	0.00
ATOM	57	NH1 ARG	4	28.857	-5.678	1.545	1.00	0.00
ATOM	58	HH11 ARG	4	29.763	-6.007	1.848	1.00	0.00
ATOM	59	HH12 ARG	4	28.720	-4.707	1.306	1.00	0.00
ATOM	60	NH2 ARG	4	26.687	-6.093	1.070	1.00	0.00
ATOM	61	HH21 ARG	4	25.916	-6.743	1.006	1.00	0.00
ATOM	62	HH22 ARG	4	26.557	-5.120	0.833	1.00	0.00
ATOM	63	C ARG	4	24.723	-6.847	5.711	1.00	0.00
ATOM	64	O ARG	4	24.918	-6.077	6.630	1.00	0.00
ATOM	65	N ARG	5	23.669	-6.738	4.948	1.00	0.00
ATOM	66	H ARG	5	23.501	-7.374	4.181	1.00	0.00
ATOM	67	CA ARG	5	22.678	-5.654	5.198	1.00	0.00

ATOM	68	HA	ARG	5	23.150	-4.678	5.091	1.00	0.00
ATOM	69	CB	ARG	5	21.539	-5.761	4.181	1.00	0.00
ATOM	70	HB2	ARG	5	21.087	-6.751	4.244	1.00	0.00
ATOM	71	HB3	ARG	5	20.786	-5.003	4.397	1.00	0.00
ATOM	72	CG	ARG	5	22.092	-5.543	2.771	1.00	0.00
ATOM	73	HG2	ARG	5	22.604	-4.582	2.725	1.00	0.00
ATOM	74	HG3	ARG	5	22.795	-6.341	2.528	1.00	0.00
ATOM	75	CD	ARG	5	20.940	-5.555	1.765	1.00	0.00
ATOM	76	HD2	ARG	5	20.342	-6.458	1.887	1.00	0.00
ATOM	77	HD3	ARG	5	20.308	-4.679	1.905	1.00	0.00
ATOM	78	NE	ARG	5	21.490	-5.531	0.380	1.00	0.00
ATOM	79	HE	ARG	5	22.017	-4.742	0.035	1.00	0.00
ATOM	80	CZ	ARG	5	21.295	-6.546	-0.417	1.00	0.00
ATOM	81	NH1	ARG	5	20.094	-7.033	-0.573	1.00	0.00
ATOM	82	HH11	ARG	5	19.317	-6.622	-0.075	1.00	0.00
ATOM	83	HH12	ARG	5	19.947	-7.819	-1.191	1.00	0.00
ATOM	84	NH2	ARG	5	22.301	-7.074	-1.058	1.00	0.00
ATOM	85	HH21	ARG	5	23.229	-6.695	-0.935	1.00	0.00
ATOM	86	HH22	ARG	5	22.147	-7.860	-1.674	1.00	0.00
ATOM	87	C	ARG	5	22.114	-5.792	6.613	1.00	0.00
ATOM	88	O	ARG	5	21.762	-4.818	7.248	1.00	0.00
ATOM	89	N	GLU	6	22.024	-6.995	7.111	1.00	0.00

ATOM	90	H	GLU	6	22.314	-7.810	6.588	1.00	0.00
ATOM	91	CA	GLU	6	21.482	-7.193	8.485	1.00	0.00
ATOM	92	HA	GLU	6	20.458	-6.825	8.544	1.00	0.00
ATOM	93	CB	GLU	6	21.486	-8.685	8.826	1.00	0.00
ATOM	94	HB2	GLU	6	22.497	-9.080	8.721	1.00	0.00
ATOM	95	HB3	GLU	6	21.147	-8.825	9.853	1.00	0.00
ATOM	96	CG	GLU	6	20.547	-9.428	7.874	1.00	0.00
ATOM	97	HG2	GLU	6	19.542	-9.015	7.955	1.00	0.00
ATOM	98	HG3	GLU	6	20.904	-9.315	6.850	1.00	0.00
ATOM	99	CD	GLU	6	20.519	-10.912	8.242	1.00	0.00
ATOM	100	OE1	GLU	6	21.317	-11.313	9.073	1.00	0.00
ATOM	101	OE2	GLU	6	19.697	-11.624	7.687	1.00	0.00
ATOM	102	C	GLU	6	22.354	-6.437	9.490	1.00	0.00
ATOM	103	O	GLU	6	21.879	-5.960	10.502	1.00	0.00
ATOM	104	N	ARG	7	23.625	-6.323	9.220	1.00	0.00
ATOM	105	H	ARG	7	24.027	-6.718	8.381	1.00	0.00
ATOM	106	CA	ARG	7	24.524	-5.597	10.160	1.00	0.00
ATOM	107	HA	ARG	7	24.626	-6.154	11.091	1.00	0.00
ATOM	108	CB	ARG	7	25.909	-5.444	9.528	1.00	0.00
ATOM	109	HB2	ARG	7	26.280	-6.423	9.224	1.00	0.00
ATOM	110	HB3	ARG	7	25.841	-4.795	8.655	1.00	0.00
ATOM	111	CG	ARG	7	26.870	-4.829	10.547	1.00	0.00

ATOM	112	HG2	ARG	7	26.482	-3.866	10.878	1.00	0.00
ATOM	113	HG3	ARG	7	26.967	-5.496	11.404	1.00	0.00
ATOM	114	CD	ARG	7	28.242	-4.630	9.899	1.00	0.00
ATOM	115	HD2	ARG	7	28.604	-5.571	9.484	1.00	0.00
ATOM	116	HD3	ARG	7	28.181	-3.884	9.107	1.00	0.00
ATOM	117	NE	ARG	7	29.212	-4.157	10.927	1.00	0.00
ATOM	118	HE	ARG	7	29.640	-4.796	11.583	1.00	0.00
ATOM	119	CZ	ARG	7	29.526	-2.892	10.994	1.00	0.00
ATOM	120	NH1	ARG	7	28.935	-2.119	11.863	1.00	0.00
ATOM	121	HH11	ARG	7	28.236	-2.503	12.482	1.00	0.00
ATOM	122	HH12	ARG	7	29.180	-1.141	11.913	1.00	0.00
ATOM	123	NH2	ARG	7	30.431	-2.401	10.192	1.00	0.00
ATOM	124	HH21	ARG	7	30.887	-3.003	9.521	1.00	0.00
ATOM	125	HH22	ARG	7	30.672	-1.422	10.246	1.00	0.00
ATOM	126	C	ARG	7	23.943	-4.213	10.455	1.00	0.00
ATOM	127	O	ARG	7	23.964	-3.744	11.576	1.00	0.00
ATOM	128	N	GLY	8	23.422	-3.554	9.456	1.00	0.00
ATOM	129	H	GLY	8	23.400	-3.937	8.522	1.00	0.00
ATOM	130	CA	GLY	8	22.840	-2.200	9.679	1.00	0.00
ATOM	131	HA2	GLY	8	23.616	-1.512	10.013	1.00	0.00
ATOM	132	HA3	GLY	8	22.398	-1.828	8.755	1.00	0.00
ATOM	133	C	GLY	8	21.753	-2.284	10.752	1.00	0.00

ATOM	134	O	GLY	8	21.539	-1.355	11.505	1.00	0.00
ATOM	135	N	ARG	9	21.062	-3.389	10.827	1.00	0.00
ATOM	136	H	ARG	9	21.232	-4.165	10.203	1.00	0.00
ATOM	137	CA	ARG	9	19.990	-3.529	11.853	1.00	0.00
ATOM	138	HA	ARG	9	19.190	-2.814	11.664	1.00	0.00
ATOM	139	CB	ARG	9	19.408	-4.942	11.792	1.00	0.00
ATOM	140	HB2	ARG	9	19.045	-5.144	10.784	1.00	0.00
ATOM	141	HB3	ARG	9	20.181	-5.666	12.050	1.00	0.00
ATOM	142	CG	ARG	9	18.249	-5.058	12.785	1.00	0.00
ATOM	143	HG2	ARG	9	18.604	-4.820	13.788	1.00	0.00
ATOM	144	HG3	ARG	9	17.459	-4.362	12.504	1.00	0.00
ATOM	145	CD	ARG	9	17.701	-6.487	12.765	1.00	0.00
ATOM	146	HD2	ARG	9	17.418	-6.769	11.751	1.00	0.00
ATOM	147	HD3	ARG	9	18.451	-7.185	13.139	1.00	0.00
ATOM	148	NE	ARG	9	16.496	-6.569	13.638	1.00	0.00
ATOM	149	HE	ARG	9	15.643	-6.081	13.408	1.00	0.00
ATOM	150	CZ	ARG	9	16.529	-7.285	14.728	1.00	0.00
ATOM	151	NH1	ARG	9	17.003	-8.500	14.698	1.00	0.00
ATOM	152	HH11	ARG	9	17.344	-8.885	13.828	1.00	0.00
ATOM	153	HH12	ARG	9	17.027	-9.051	15.544	1.00	0.00
ATOM	154	NH2	ARG	9	16.088	-6.784	15.850	1.00	0.00
ATOM	155	HH21	ARG	9	15.723	-5.843	15.870	1.00	0.00



ATOM	156	HH22	ARG	9	16.115	-7.340	16.693	1.00	0.00
ATOM	157	C	ARG	9	20.580	-3.278	13.242	1.00	0.00
ATOM	158	O	ARG	9	19.931	-2.733	14.113	1.00	0.00
ATOM	159	N	GLN	10	21.806	-3.673	13.457	1.00	0.00
ATOM	160	H	GLN	10	22.352	-4.127	12.738	1.00	0.00
ATOM	161	CA	GLN	10	22.435	-3.457	14.790	1.00	0.00
ATOM	162	HA	GLN	10	21.920	-4.043	15.552	1.00	0.00
ATOM	163	CB	GLN	10	23.898	-3.901	14.739	1.00	0.00
ATOM	164	HB2	GLN	10	24.405	-3.391	13.920	1.00	0.00
ATOM	165	HB3	GLN	10	24.388	-3.651	15.680	1.00	0.00
ATOM	166	CG	GLN	10	23.965	-5.414	14.517	1.00	0.00
ATOM	167	HG2	GLN	10	23.385	-5.934	15.280	1.00	0.00
ATOM	168	HG3	GLN	10	23.578	-5.670	13.530	1.00	0.00
ATOM	169	CD	GLN	10	25.419	-5.879	14.607	1.00	0.00
ATOM	170	OE1	GLN	10	26.080	-6.131	13.510	1.00	0.00
ATOM	171	NE2	GLN	10	25.960	-6.015	15.686	1.00	0.00
ATOM	172	HE21	GLN	10	26.921	-6.323	15.730	1.00	0.00
ATOM	173	HE22	GLN	10	25.446	-5.820	16.533	1.00	0.00
ATOM	174	C	GLN	10	22.365	-1.972	15.152	1.00	0.00
ATOM	175	O	GLN	10	22.207	-1.611	16.301	1.00	0.00
ATOM	176	N	GLY	11	22.482	-1.109	14.181	1.00	0.00
ATOM	177	H	GLY	11	22.614	-1.403	13.224	1.00	0.00

ATOM	178	CA	GLY	11	22.423	0.352	14.470	1.00	0.00
ATOM	179	HA2	GLY	11	23.293	0.651	15.055	1.00	0.00
ATOM	180	HA3	GLY	11	22.401	0.915	13.537	1.00	0.00
ATOM	181	C	GLY	11	21.155	0.662	15.269	1.00	0.00
ATOM	182	O	GLY	11	21.148	1.517	16.131	1.00	0.00
ATOM	183	N	ASP	12	20.083	-0.027	14.988	1.00	0.00
ATOM	184	H	ASP	12	20.081	-0.739	14.271	1.00	0.00
ATOM	185	CA	ASP	12	18.818	0.230	15.733	1.00	0.00
ATOM	186	HA	ASP	12	18.008	-0.373	15.321	1.00	0.00
ATOM	187	CB	ASP	12	19.006	-0.144	17.204	1.00	0.00
ATOM	188	HB2	ASP	12	19.859	0.399	17.612	1.00	0.00
ATOM	189	HB3	ASP	12	18.108	0.117	17.763	1.00	0.00
ATOM	190	CG	ASP	12	19.258	-1.649	17.319	1.00	0.00
ATOM	191	OD1	ASP	12	19.020	-2.345	16.346	1.00	0.00
ATOM	192	OD2	ASP	12	19.685	-2.079	18.378	1.00	0.00
ATOM	193	C	ASP	12	18.454	1.712	15.626	1.00	0.00
ATOM	194	O	ASP	12	18.136	2.355	16.606	1.00	0.00
ATOM	195	N	SER	13	18.499	2.260	14.442	1.00	0.00
ATOM	196	H	SER	13	18.763	1.732	13.622	1.00	0.00
ATOM	197	CA	SER	13	18.155	3.700	14.275	1.00	0.00
ATOM	198	HA	SER	13	18.868	4.324	14.814	1.00	0.00
ATOM	199	CB	SER	13	18.208	4.068	12.791	1.00	0.00

ATOM	200	HB2	SER	13	17.446	3.507	12.249	1.00	0.00
ATOM	201	HB3	SER	13	18.025	5.136	12.674	1.00	0.00
ATOM	202	OG	SER	13	19.490	3.748	12.270	1.00	0.00
ATOM	203	HG	SER	13	19.524	3.978	11.339	1.00	0.00
ATOM	204	C	SER	13	16.745	3.951	14.813	1.00	0.00
ATOM	205	O	SER	13	16.472	4.972	15.413	1.00	0.00
ATOM	206	N	SER	14	15.848	3.027	14.603	1.00	0.00
ATOM	207	H	SER	14	16.070	2.175	14.106	1.00	0.00
ATOM	208	CA	SER	14	14.455	3.212	15.103	1.00	0.00
ATOM	209	HA	SER	14	14.458	3.794	16.024	1.00	0.00
ATOM	210	CB	SER	14	13.632	3.961	14.053	1.00	0.00
ATOM	211	HB2	SER	14	14.049	4.957	13.907	1.00	0.00
ATOM	212	HB3	SER	14	13.660	3.414	13.110	1.00	0.00
ATOM	213	OG	SER	14	12.287	4.071	14.497	1.00	0.00
ATOM	214	HG	SER	14	11.770	4.540	13.838	1.00	0.00
ATOM	215	C	SER	14	13.825	1.842	15.363	1.00	0.00
ATOM	216	O	SER	14	13.914	0.942	14.553	1.00	0.00
ATOM	217	N	SER	15	13.189	1.677	16.492	1.00	0.00
ATOM	218	H	SER	15	13.112	2.419	17.173	1.00	0.00
ATOM	219	CA	SER	15	12.556	0.365	16.803	1.00	0.00
ATOM	220	HA	SER	15	13.240	-0.451	16.568	1.00	0.00
ATOM	221	CB	SER	15	12.216	0.304	18.294	1.00	0.00

ATOM	222	HB2	SER	15	11.879	-0.701	18.550	1.00	0.00
ATOM	223	HB3	SER	15	13.102	0.549	18.880	1.00	0.00
ATOM	224	OG	SER	15	11.185	1.237	18.582	1.00	0.00
ATOM	225	HG	SER	15	10.972	1.199	19.517	1.00	0.00
ATOM	226	C	SER	15	11.276	0.204	15.980	1.00	0.00
ATOM	227	O	SER	15	10.856	-0.895	15.678	1.00	0.00
ATOM	228	N	CYX	16	10.653	1.292	15.613	1.00	0.00
ATOM	229	H	CYX	16	10.995	2.209	15.860	1.00	0.00
ATOM	230	CA	CYX	16	9.403	1.197	14.807	1.00	0.00
ATOM	231	HA	CYX	16	8.642	0.641	15.355	1.00	0.00
ATOM	232	CB	CYX	16	8.871	2.602	14.520	1.00	0.00
ATOM	233	HB2	CYX	16	8.894	3.193	15.435	1.00	0.00
ATOM	234	HB3	CYX	16	9.494	3.079	13.764	1.00	0.00
ATOM	235	SG	CYX	16	7.148	2.496	13.973	1.00	0.00
ATOM	236	C	CYX	16	9.704	0.486	13.486	1.00	0.00
ATOM	237	O	CYX	16	8.834	-0.100	12.873	1.00	0.00
ATOM	238	N	GLU	17	10.930	0.533	13.043	1.00	0.00
ATOM	239	H	GLU	17	11.658	1.018	13.547	1.00	0.00
ATOM	240	CA	GLU	17	11.286	-0.140	11.763	1.00	0.00
ATOM	241	HA	GLU	17	10.686	0.259	10.945	1.00	0.00
ATOM	242	CB	GLU	17	12.763	0.108	11.452	1.00	0.00
ATOM	243	HB2	GLU	17	13.354	-0.025	12.359	1.00	0.00

ATOM	244	HB3	GLU	17	13.099	-0.599	10.693	1.00	0.00
ATOM	245	CG	GLU	17	12.941	1.537	10.932	1.00	0.00
ATOM	246	HG2	GLU	17	12.315	1.684	10.052	1.00	0.00
ATOM	247	HG3	GLU	17	12.650	2.245	11.707	1.00	0.00
ATOM	248	CD	GLU	17	14.407	1.764	10.558	1.00	0.00
ATOM	249	OE1	GLU	17	15.178	0.826	10.666	1.00	0.00
ATOM	250	OE2	GLU	17	14.733	2.874	10.170	1.00	0.00
ATOM	251	C	GLU	17	11.036	-1.644	11.892	1.00	0.00
ATOM	252	O	GLU	17	10.420	-2.255	11.041	1.00	0.00
ATOM	253	N	ARG	18	11.509	-2.246	12.949	1.00	0.00
ATOM	254	H	ARG	18	12.021	-1.745	13.661	1.00	0.00
ATOM	255	CA	ARG	18	11.298	-3.711	13.130	1.00	0.00
ATOM	256	HA	ARG	18	11.879	-4.270	12.396	1.00	0.00
ATOM	257	CB	ARG	18	11.754	-4.124	14.531	1.00	0.00
ATOM	258	HB2	ARG	18	12.809	-3.880	14.658	1.00	0.00
ATOM	259	HB3	ARG	18	11.166	-3.591	15.278	1.00	0.00
ATOM	260	CG	ARG	18	11.556	-5.631	14.707	1.00	0.00
ATOM	261	HG2	ARG	18	10.508	-5.882	14.546	1.00	0.00
ATOM	262	HG3	ARG	18	12.172	-6.166	13.984	1.00	0.00
ATOM	263	CD	ARG	18	11.965	-6.037	16.125	1.00	0.00
ATOM	264	HD2	ARG	18	12.036	-7.122	16.201	1.00	0.00
ATOM	265	HD3	ARG	18	12.926	-5.592	16.382	1.00	0.00

ATOM	266	NE	ARG	18	10.941	-5.556	17.095	1.00	0.00
ATOM	267	HE	ARG	18	10.183	-4.955	16.806	1.00	0.00
ATOM	268	CZ	ARG	18	11.013	-5.909	18.350	1.00	0.00
ATOM	269	NH1	ARG	18	11.513	-5.087	19.232	1.00	0.00
ATOM	270	HH11	ARG	18	11.844	-4.179	18.940	1.00	0.00
ATOM	271	HH12	ARG	18	11.567	-5.364	20.202	1.00	0.00
ATOM	272	NH2	ARG	18	10.586	-7.085	18.721	1.00	0.00
ATOM	273	HH21	ARG	18	10.201	-7.719	18.035	1.00	0.00
ATOM	274	HH22	ARG	18	10.643	-7.357	19.692	1.00	0.00
ATOM	275	C	ARG	18	9.812	-4.036	12.962	1.00	0.00
ATOM	276	O	ARG	18	9.440	-5.162	12.695	1.00	0.00
ATOM	277	N	GLN	19	8.959	-3.061	13.119	1.00	0.00
ATOM	278	H	GLN	19	9.260	-2.124	13.343	1.00	0.00
ATOM	279	CA	GLN	19	7.500	-3.318	12.971	1.00	0.00
ATOM	280	HA	GLN	19	7.228	-4.250	13.467	1.00	0.00
ATOM	281	CB	GLN	19	6.713	-2.174	13.613	1.00	0.00
ATOM	282	HB2	GLN	19	7.110	-1.220	13.267	1.00	0.00
ATOM	283	HB3	GLN	19	5.663	-2.254	13.334	1.00	0.00
ATOM	284	CG	GLN	19	6.844	-2.258	15.135	1.00	0.00
ATOM	285	HG2	GLN	19	6.585	-3.259	15.481	1.00	0.00
ATOM	286	HG3	GLN	19	7.863	-2.021	15.441	1.00	0.00
ATOM	287	CD	GLN	19	5.892	-1.254	15.787	1.00	0.00

ATOM	288	OE1	GLN	19	5.413	-0.344	15.140	1.00	0.00
ATOM	289	NE2	GLN	19	5.595	-1.380	17.052	1.00	0.00
ATOM	290	HE21	GLN	19	4.967	-0.721	17.488	1.00	0.00
ATOM	291	HE22	GLN	19	5.995	-2.137	17.588	1.00	0.00
ATOM	292	C	GLN	19	7.144	-3.413	11.485	1.00	0.00
ATOM	293	O	GLN	19	6.113	-3.941	11.118	1.00	0.00
ATOM	294	N	VAL	20	7.988	-2.909	10.626	1.00	0.00
ATOM	295	H	VAL	20	8.847	-2.467	10.921	1.00	0.00
ATOM	296	CA	VAL	20	7.692	-2.975	9.167	1.00	0.00
ATOM	297	HA	VAL	20	6.654	-2.702	8.980	1.00	0.00
ATOM	298	CB	VAL	20	8.599	-1.998	8.414	1.00	0.00
ATOM	299	HB	VAL	20	8.607	-1.040	8.932	1.00	0.00
ATOM	300	CG1	VAL	20	10.022	-2.557	8.354	1.00	0.00
ATOM	301	HG11	VAL	20	10.015	-3.516	7.835	1.00	0.00
ATOM	302	HG12	VAL	20	10.665	-1.860	7.817	1.00	0.00
ATOM	303	HG13	VAL	20	10.402	-2.695	9.366	1.00	0.00
ATOM	304	CG2	VAL	20	8.069	-1.804	6.992	1.00	0.00
ATOM	305	HG21	VAL	20	7.057	-1.403	7.033	1.00	0.00
ATOM	306	HG22	VAL	20	8.714	-1.109	6.455	1.00	0.00
ATOM	307	HG23	VAL	20	8.058	-2.763	6.474	1.00	0.00
ATOM	308	C	VAL	20	7.941	-4.399	8.663	1.00	0.00
ATOM	309	O	VAL	20	7.286	-4.868	7.752	1.00	0.00

ATOM	310	N	ASP	21	8.881	-5.091	9.248	1.00	0.00
ATOM	311	H	ASP	21	9.430	-4.707	10.004	1.00	0.00
ATOM	312	CA	ASP	21	9.169	-6.483	8.803	1.00	0.00
ATOM	313	HA	ASP	21	9.582	-6.480	7.794	1.00	0.00
ATOM	314	CB	ASP	21	10.190	-7.119	9.746	1.00	0.00
ATOM	315	HB2	ASP	21	9.880	-6.962	10.779	1.00	0.00
ATOM	316	HB3	ASP	21	10.254	-8.189	9.545	1.00	0.00
ATOM	317	CG	ASP	21	11.561	-6.476	9.522	1.00	0.00
ATOM	318	OD1	ASP	21	11.680	-5.692	8.594	1.00	0.00
ATOM	319	OD2	ASP	21	12.466	-6.778	10.281	1.00	0.00
ATOM	320	C	ASP	21	7.877	-7.303	8.821	1.00	0.00
ATOM	321	O	ASP	21	7.695	-8.210	8.034	1.00	0.00
ATOM	322	N	ARG	22	6.979	-6.989	9.713	1.00	0.00
ATOM	323	H	ARG	22	7.124	-6.237	10.371	1.00	0.00
ATOM	324	CA	ARG	22	5.699	-7.750	9.780	1.00	0.00
ATOM	325	HA	ARG	22	5.886	-8.817	9.652	1.00	0.00
ATOM	326	CB	ARG	22	5.044	-7.528	11.146	1.00	0.00
ATOM	327	HB2	ARG	22	5.764	-7.747	11.935	1.00	0.00
ATOM	328	HB3	ARG	22	4.719	-6.492	11.229	1.00	0.00
ATOM	329	CG	ARG	22	3.836	-8.454	11.288	1.00	0.00
ATOM	330	HG2	ARG	22	3.162	-8.305	10.445	1.00	0.00
ATOM	331	HG3	ARG	22	4.172	-9.491	11.304	1.00	0.00



ATOM	332	CD	ARG	22	3.100	-8.136	12.592	1.00	0.00
ATOM	333	HD2	ARG	22	3.798	-8.137	13.429	1.00	0.00
ATOM	334	HD3	ARG	22	2.616	-7.162	12.524	1.00	0.00
ATOM	335	NE	ARG	22	2.057	-9.172	12.839	1.00	0.00
ATOM	336	HE	ARG	22	1.932	-9.590	13.750	1.00	0.00
ATOM	337	CZ	ARG	22	1.280	-9.559	11.864	1.00	0.00
ATOM	338	NH1	ARG	22	0.046	-9.136	11.806	1.00	0.00
ATOM	339	HH11	ARG	22	-0.304	-8.510	12.517	1.00	0.00
ATOM	340	HH12	ARG	22	-0.553	-9.438	11.050	1.00	0.00
ATOM	341	NH2	ARG	22	1.735	-10.369	10.948	1.00	0.00
ATOM	342	HH21	ARG	22	2.690	-10.696	10.996	1.00	0.00
ATOM	343	HH22	ARG	22	1.131	-10.666	10.195	1.00	0.00
ATOM	344	C	ARG	22	4.761	-7.263	8.677	1.00	0.00
ATOM	345	O	ARG	22	3.807	-7.926	8.321	1.00	0.00
ATOM	346	N	VAL	23	5.023	-6.107	8.131	1.00	0.00
ATOM	347	H	VAL	23	5.814	-5.551	8.423	1.00	0.00
ATOM	348	CA	VAL	23	4.147	-5.576	7.049	1.00	0.00
ATOM	349	HA	VAL	23	3.225	-5.177	7.470	1.00	0.00
ATOM	350	CB	VAL	23	4.875	-4.451	6.310	1.00	0.00
ATOM	351	HB	VAL	23	5.882	-4.778	6.050	1.00	0.00
ATOM	352	CG1	VAL	23	4.108	-4.100	5.033	1.00	0.00
ATOM	353	HG11	VAL	23	3.101	-3.773	5.292	1.00	0.00

ATOM	354	HG12 VAL	23	4.626	-3.299	4.506	1.00	0.00
ATOM	355	HG13 VAL	23	4.050	-4.979	4.390	1.00	0.00
ATOM	356	CG2 VAL	23	4.957	-3.218	7.212	1.00	0.00
ATOM	357	HG21 VAL	23	5.504	-3.469	8.121	1.00	0.00
ATOM	358	HG22 VAL	23	5.476	-2.417	6.686	1.00	0.00
ATOM	359	HG23 VAL	23	3.951	-2.890	7.472	1.00	0.00
ATOM	360	C VAL	23	3.813	-6.699	6.066	1.00	0.00
ATOM	361	O VAL	23	2.775	-7.324	6.151	1.00	0.00
ATOM	362	N ASN	24	4.686	-6.959	5.134	1.00	0.00
ATOM	363	H ASN	24	5.551	-6.444	5.059	1.00	0.00
ATOM	364	CA ASN	24	4.420	-8.040	4.145	1.00	0.00
ATOM	365	HA ASN	24	5.190	-8.046	3.374	1.00	0.00
ATOM	366	CB ASN	24	4.431	-9.394	4.857	1.00	0.00
ATOM	367	HB2 ASN	24	3.662	-9.422	5.628	1.00	0.00
ATOM	368	HB3 ASN	24	4.258	-10.199	4.142	1.00	0.00
ATOM	369	CG ASN	24	5.794	-9.612	5.518	1.00	0.00
ATOM	370	OD1 ASN	24	6.762	-8.965	5.168	1.00	0.00
ATOM	371	ND2 ASN	24	5.912	-10.502	6.465	1.00	0.00
ATOM	372	HD21 ASN	24	6.809	-10.651	6.905	1.00	0.00
ATOM	373	HD22 ASN	24	5.106	-11.038	6.753	1.00	0.00
ATOM	374	C ASN	24	3.051	-7.812	3.499	1.00	0.00
ATOM	375	O ASN	24	2.089	-8.486	3.807	1.00	0.00

ATOM	376	N	LEU	25	2.957	-6.867	2.605	1.00	0.00
ATOM	377	H	LEU	25	3.754	-6.305	2.343	1.00	0.00
ATOM	378	CA	LEU	25	1.651	-6.596	1.940	1.00	0.00
ATOM	379	HA	LEU	25	0.856	-7.167	2.420	1.00	0.00
ATOM	380	CB	LEU	25	1.321	-5.106	2.055	1.00	0.00
ATOM	381	HB2	LEU	25	2.213	-4.519	1.837	1.00	0.00
ATOM	382	HB3	LEU	25	0.536	-4.852	1.343	1.00	0.00
ATOM	383	CG	LEU	25	0.841	-4.797	3.475	1.00	0.00
ATOM	384	HG	LEU	25	1.481	-5.309	4.194	1.00	0.00
ATOM	385	CD1	LEU	25	0.904	-3.289	3.719	1.00	0.00
ATOM	386	HD11	LEU	25	0.264	-2.778	3.000	1.00	0.00
ATOM	387	HD12	LEU	25	0.562	-3.070	4.730	1.00	0.00
ATOM	388	HD13	LEU	25	1.931	-2.944	3.600	1.00	0.00
ATOM	389	CD2	LEU	25	-0.602	-5.281	3.642	1.00	0.00
ATOM	390	HD21	LEU	25	-0.647	-6.357	3.469	1.00	0.00
ATOM	391	HD22	LEU	25	-0.944	-5.062	4.653	1.00	0.00
ATOM	392	HD23	LEU	25	-1.242	-4.771	2.923	1.00	0.00
ATOM	393	C	LEU	25	1.743	-6.985	0.463	1.00	0.00
ATOM	394	O	LEU	25	1.715	-6.144	-0.414	1.00	0.00
ATOM	395	N	LYS	26	1.852	-8.255	0.181	1.00	0.00
ATOM	396	H	LYS	26	1.880	-8.956	0.908	1.00	0.00
ATOM	397	CA	LYS	26	1.948	-8.703	-1.237	1.00	0.00

ATOM	398	HA	LYS	26	2.737	-8.158	-1.755	1.00	0.00
ATOM	399	CB	LYS	26	2.280	-10.196	-1.275	1.00	0.00
ATOM	400	HB2	LYS	26	3.137	-10.395	-0.632	1.00	0.00
ATOM	401	HB3	LYS	26	1.422	-10.769	-0.924	1.00	0.00
ATOM	402	CG	LYS	26	2.614	-10.607	-2.711	1.00	0.00
ATOM	403	HG2	LYS	26	2.047	-11.500	-2.975	1.00	0.00
ATOM	404	HG3	LYS	26	2.353	-9.797	-3.391	1.00	0.00
ATOM	405	CD	LYS	26	4.111	-10.903	-2.822	1.00	0.00
ATOM	406	HD2	LYS	26	4.506	-10.448	-3.730	1.00	0.00
ATOM	407	HD3	LYS	26	4.628	-10.492	-1.955	1.00	0.00
ATOM	408	CE	LYS	26	4.330	-12.417	-2.875	1.00	0.00
ATOM	409	HE2	LYS	26	4.645	-12.774	-1.894	1.00	0.00
ATOM	410	HE3	LYS	26	3.400	-12.910	-3.159	1.00	0.00
ATOM	411	NZ	LYS	26	5.385	-12.732	-3.879	1.00	0.00
ATOM	412	HZ1	LYS	26	6.247	-12.277	-3.616	1.00	0.00
ATOM	413	HZ2	LYS	26	5.529	-13.731	-3.914	1.00	0.00
ATOM	414	HZ3	LYS	26	5.094	-12.403	-4.788	1.00	0.00
ATOM	415	C	LYS	26	0.621	-8.458	-1.967	1.00	0.00
ATOM	416	O	LYS	26	0.610	-8.104	-3.129	1.00	0.00
ATOM	417	N	PRO	27	-0.524	-8.655	-1.285	1.00	0.00
ATOM	418	CD	PRO	27	-0.633	-9.080	0.125	1.00	0.00
ATOM	419	HD2	PRO	27	0.056	-8.498	0.737	1.00	0.00

ATOM	420	HD3 PRO	27	-0.385	-10.139	0.208	1.00	0.00
ATOM	421	CG PRO	27	-2.072	-8.801	0.452	1.00	0.00
ATOM	422	HG2 PRO	27	-2.165	-7.793	0.854	1.00	0.00
ATOM	423	HG3 PRO	27	-2.423	-9.521	1.192	1.00	0.00
ATOM	424	CB PRO	27	-2.819	-8.947	-0.828	1.00	0.00
ATOM	425	HB2 PRO	27	-3.693	-8.298	-0.798	1.00	0.00
ATOM	426	HB3 PRO	27	-3.132	-9.968	-1.050	1.00	0.00
ATOM	427	CA PRO	27	-1.845	-8.457	-1.898	1.00	0.00
ATOM	428	HA PRO	27	-1.889	-9.045	-2.815	1.00	0.00
ATOM	429	C PRO	27	-2.106	-6.983	-2.224	1.00	0.00
ATOM	430	O PRO	27	-2.653	-6.656	-3.259	1.00	0.00
ATOM	431	N CYX	28	-1.710	-6.090	-1.359	1.00	0.00
ATOM	432	H CYX	28	-1.248	-6.348	-0.498	1.00	0.00
ATOM	433	CA CYX	28	-1.931	-4.643	-1.637	1.00	0.00
ATOM	434	HA CYX	28	-2.985	-4.454	-1.837	1.00	0.00
ATOM	435	CB CYX	28	-1.508	-3.817	-0.420	1.00	0.00
ATOM	436	HB2 CYX	28	-0.847	-4.412	0.211	1.00	0.00
ATOM	437	HB3 CYX	28	-0.983	-2.922	-0.753	1.00	0.00
ATOM	438	SG CYX	28	-2.968	-3.413	0.571	1.00	0.00
ATOM	439	C CYX	28	-1.085	-4.245	-2.847	1.00	0.00
ATOM	440	O CYX	28	-1.589	-3.760	-3.845	1.00	0.00
ATOM	441	N GLU	29	0.201	-4.457	-2.774	1.00	0.00

ATOM	442	H	GLU	29	0.628	-4.863	-1.953	1.00	0.00
ATOM	443	CA	GLU	29	1.076	-4.106	-3.922	1.00	0.00
ATOM	444	HA	GLU	29	1.128	-3.024	-4.039	1.00	0.00
ATOM	445	CB	GLU	29	2.487	-4.639	-3.674	1.00	0.00
ATOM	446	HB2	GLU	29	2.726	-4.557	-2.614	1.00	0.00
ATOM	447	HB3	GLU	29	2.540	-5.685	-3.978	1.00	0.00
ATOM	448	CG	GLU	29	3.491	-3.822	-4.487	1.00	0.00
ATOM	449	HG2	GLU	29	3.217	-3.854	-5.542	1.00	0.00
ATOM	450	HG3	GLU	29	3.482	-2.789	-4.141	1.00	0.00
ATOM	451	CD	GLU	29	4.893	-4.407	-4.307	1.00	0.00
ATOM	452	OE1	GLU	29	5.024	-5.357	-3.551	1.00	0.00
ATOM	453	OE2	GLU	29	5.811	-3.898	-4.927	1.00	0.00
ATOM	454	C	GLU	29	0.507	-4.744	-5.189	1.00	0.00
ATOM	455	O	GLU	29	0.599	-4.198	-6.271	1.00	0.00
ATOM	456	N	GLN	30	-0.077	-5.904	-5.064	1.00	0.00
ATOM	457	H	GLN	30	-0.151	-6.367	-4.169	1.00	0.00
ATOM	458	CA	GLN	30	-0.649	-6.582	-6.258	1.00	0.00
ATOM	459	HA	GLN	30	0.084	-6.609	-7.065	1.00	0.00
ATOM	460	CB	GLN	30	-1.029	-8.019	-5.896	1.00	0.00
ATOM	461	HB2	GLN	30	-1.448	-8.043	-4.890	1.00	0.00
ATOM	462	HB3	GLN	30	-1.768	-8.390	-6.606	1.00	0.00
ATOM	463	CG	GLN	30	0.219	-8.905	-5.949	1.00	0.00

ATOM	464	HG2	GLN	30	0.539	-9.045	-6.982	1.00	0.00
ATOM	465	HG3	GLN	30	1.030	-8.454	-5.377	1.00	0.00
ATOM	466	CD	GLN	30	-0.101	-10.273	-5.347	1.00	0.00
ATOM	467	OE1	GLN	30	-1.198	-10.503	-4.877	1.00	0.00
ATOM	468	NE2	GLN	30	0.818	-11.200	-5.339	1.00	0.00
ATOM	469	HE21	GLN	30	0.614	-12.107	-4.943	1.00	0.00
ATOM	470	HE22	GLN	30	1.730	-11.007	-5.729	1.00	0.00
ATOM	471	C	GLN	30	-1.893	-5.827	-6.733	1.00	0.00
ATOM	472	O	GLN	30	-2.269	-5.904	-7.886	1.00	0.00
ATOM	473	N	HID	31	-2.535	-5.093	-5.864	1.00	0.00
ATOM	474	H	HID	31	-2.234	-5.019	-4.903	1.00	0.00
ATOM	475	CA	HID	31	-3.745	-4.337	-6.285	1.00	0.00
ATOM	476	HA	HID	31	-4.358	-4.945	-6.950	1.00	0.00
ATOM	477	CB	HID	31	-4.575	-3.974	-5.049	1.00	0.00
ATOM	478	HB2	HID	31	-5.248	-4.782	-4.762	1.00	0.00
ATOM	479	HB3	HID	31	-3.950	-3.704	-4.198	1.00	0.00
ATOM	480	CG	HID	31	-5.439	-2.777	-5.346	1.00	0.00
ATOM	481	ND1	HID	31	-6.510	-2.837	-6.224	1.00	0.00
ATOM	482	HD1	HID	31	-6.817	-3.649	-6.741	1.00	0.00
ATOM	483	CE1	HID	31	-7.070	-1.614	-6.265	1.00	0.00
ATOM	484	HE1	HID	31	-7.935	-1.484	-6.916	1.00	0.00
ATOM	485	NE2	HID	31	-6.435	-0.751	-5.467	1.00	0.00

ATOM	486	CD2	HID	31	-5.404	-1.483	-4.885	1.00	0.00
ATOM	487	HD2	HID	31	-4.725	-1.003	-4.180	1.00	0.00
ATOM	488	C	HID	31	-3.292	-3.069	-7.000	1.00	0.00
ATOM	489	O	HID	31	-4.025	-2.471	-7.763	1.00	0.00
ATOM	490	N	ILE	32	-2.078	-2.661	-6.759	1.00	0.00
ATOM	491	H	ILE	32	-1.468	-3.155	-6.123	1.00	0.00
ATOM	492	CA	ILE	32	-1.559	-1.435	-7.425	1.00	0.00
ATOM	493	HA	ILE	32	-2.395	-0.780	-7.669	1.00	0.00
ATOM	494	CB	ILE	32	-0.589	-0.701	-6.493	1.00	0.00
ATOM	495	HB	ILE	32	0.374	-0.579	-6.989	1.00	0.00
ATOM	496	CG2	ILE	32	-1.162	0.671	-6.151	1.00	0.00
ATOM	497	HG21	ILE	32	-2.124	0.549	-5.654	1.00	0.00
ATOM	498	HG22	ILE	32	-0.475	1.197	-5.488	1.00	0.00
ATOM	499	HG23	ILE	32	-1.296	1.247	-7.066	1.00	0.00
ATOM	500	CG1	ILE	32	-0.394	-1.504	-5.203	1.00	0.00
ATOM	501	HG12	ILE	32	-1.367	-1.747	-4.777	1.00	0.00
ATOM	502	HG13	ILE	32	0.144	-2.426	-5.428	1.00	0.00
ATOM	503	CD1	ILE	32	0.410	-0.677	-4.198	1.00	0.00
ATOM	504	HD11	ILE	32	-0.127	0.244	-3.972	1.00	0.00
ATOM	505	HD12	ILE	32	0.547	-1.251	-3.282	1.00	0.00
ATOM	506	HD13	ILE	32	1.384	-0.435	-4.623	1.00	0.00
ATOM	507	C	ILE	32	-0.831	-1.829	-8.709	1.00	0.00



ATOM	508	O	ILE	32	-1.104	-1.308	-9.772	1.00	0.00
ATOM	509	N	MET	33	0.088	-2.750	-8.623	1.00	0.00
ATOM	510	H	MET	33	0.321	-3.190	-7.744	1.00	0.00
ATOM	511	CA	MET	33	0.825	-3.179	-9.844	1.00	0.00
ATOM	512	HA	MET	33	1.337	-2.329	-10.295	1.00	0.00
ATOM	513	CB	MET	33	1.868	-4.233	-9.466	1.00	0.00
ATOM	514	HB2	MET	33	1.364	-5.132	-9.110	1.00	0.00
ATOM	515	HB3	MET	33	2.471	-4.478	-10.340	1.00	0.00
ATOM	516	CG	MET	33	2.772	-3.684	-8.361	1.00	0.00
ATOM	517	HG2	MET	33	3.172	-2.715	-8.659	1.00	0.00
ATOM	518	HG3	MET	33	2.201	-3.573	-7.439	1.00	0.00
ATOM	519	SD	MET	33	4.143	-4.831	-8.077	1.00	0.00
ATOM	520	CE	MET	33	5.274	-4.139	-9.308	1.00	0.00
ATOM	521	HE1	MET	33	5.483	-3.097	-9.066	1.00	0.00
ATOM	522	HE2	MET	33	6.206	-4.706	-9.305	1.00	0.00
ATOM	523	HE3	MET	33	4.817	-4.198	-10.296	1.00	0.00
ATOM	524	C	MET	33	-0.165	-3.774	-10.845	1.00	0.00
ATOM	525	O	MET	33	-0.071	-3.550	-12.034	1.00	0.00
ATOM	526	N	GLN	34	-1.115	-4.530	-10.370	1.00	0.00
ATOM	527	H	GLN	34	-1.198	-4.718	-9.381	1.00	0.00
ATOM	528	CA	GLN	34	-2.113	-5.143	-11.292	1.00	0.00
ATOM	529	HA	GLN	34	-1.609	-5.741	-12.052	1.00	0.00

ATOM	530	CB	GLN	34	-3.050	-6.053	-10.495	1.00	0.00
ATOM	531	HB2	GLN	34	-3.402	-5.526	-9.609	1.00	0.00
ATOM	532	HB3	GLN	34	-3.902	-6.330	-11.115	1.00	0.00
ATOM	533	CG	GLN	34	-2.297	-7.315	-10.071	1.00	0.00
ATOM	534	HG2	GLN	34	-2.016	-7.901	-10.946	1.00	0.00
ATOM	535	HG3	GLN	34	-1.401	-7.050	-9.509	1.00	0.00
ATOM	536	CD	GLN	34	-3.198	-8.171	-9.179	1.00	0.00
ATOM	537	OE1	GLN	34	-4.253	-7.735	-8.764	1.00	0.00
ATOM	538	NE2	GLN	34	-2.824	-9.381	-8.865	1.00	0.00
ATOM	539	HE21	GLN	34	-3.414	-9.952	-8.277	1.00	0.00
ATOM	540	HE22	GLN	34	-1.946	-9.742	-9.212	1.00	0.00
ATOM	541	C	GLN	34	-2.930	-4.044	-11.974	1.00	0.00
ATOM	542	O	GLN	34	-3.165	-4.085	-13.165	1.00	0.00
ATOM	543	N	ARG	35	-3.373	-3.066	-11.232	1.00	0.00
ATOM	544	H	ARG	35	-3.185	-3.024	-10.241	1.00	0.00
ATOM	545	CA	ARG	35	-4.182	-1.974	-11.846	1.00	0.00
ATOM	546	HA	ARG	35	-5.044	-2.389	-12.367	1.00	0.00
ATOM	547	CB	ARG	35	-4.680	-1.033	-10.749	1.00	0.00
ATOM	548	HB2	ARG	35	-3.899	-0.901	-10.000	1.00	0.00
ATOM	549	HB3	ARG	35	-4.931	-0.067	-11.185	1.00	0.00
ATOM	550	CG	ARG	35	-5.924	-1.634	-10.088	1.00	0.00
ATOM	551	HG2	ARG	35	-6.628	-1.952	-10.858	1.00	0.00

ATOM	552	HG3	ARG	35	-5.635	-2.494	-9.484	1.00	0.00
ATOM	553	CD	ARG	35	-6.585	-0.582	-9.195	1.00	0.00
ATOM	554	HD2	ARG	35	-6.995	0.224	-9.802	1.00	0.00
ATOM	555	HD3	ARG	35	-7.382	-1.035	-8.606	1.00	0.00
ATOM	556	NE	ARG	35	-5.570	-0.011	-8.266	1.00	0.00
ATOM	557	HE	ARG	35	-4.722	-0.511	-8.039	1.00	0.00
ATOM	558	CZ	ARG	35	-5.767	1.159	-7.723	1.00	0.00
ATOM	559	NH1	ARG	35	-6.282	2.128	-8.430	1.00	0.00
ATOM	560	HH11	ARG	35	-6.527	1.968	-9.397	1.00	0.00
ATOM	561	HH12	ARG	35	-6.433	3.032	-8.007	1.00	0.00
ATOM	562	NH2	ARG	35	-5.447	1.361	-6.475	1.00	0.00
ATOM	563	HH21	ARG	35	-5.047	0.609	-5.932	1.00	0.00
ATOM	564	HH22	ARG	35	-5.601	2.267	-6.058	1.00	0.00
ATOM	565	C	ARG	35	-3.324	-1.187	-12.840	1.00	0.00
ATOM	566	O	ARG	35	-3.682	-1.025	-13.989	1.00	0.00
ATOM	567	N	ILE	36	-2.199	-0.692	-12.406	1.00	0.00
ATOM	568	H	ILE	36	-1.896	-0.820	-11.451	1.00	0.00
ATOM	569	CA	ILE	36	-1.325	0.090	-13.326	1.00	0.00
ATOM	570	HA	ILE	36	-1.899	0.896	-13.782	1.00	0.00
ATOM	571	CB	ILE	36	-0.157	0.681	-12.534	1.00	0.00
ATOM	572	HB	ILE	36	0.477	1.265	-13.201	1.00	0.00
ATOM	573	CG2	ILE	36	-0.701	1.585	-11.425	1.00	0.00

ATOM	574	HG21	ILE	36	-1.334	1.001	-10.758	1.00	0.00
ATOM	575	HG22	ILE	36	0.130	2.007	-10.859	1.00	0.00
ATOM	576	HG23	ILE	36	-1.286	2.391	-11.867	1.00	0.00
ATOM	577	CG1	ILE	36	0.666	-0.453	-11.917	1.00	0.00
ATOM	578	HG12	ILE	36	-0.006	-1.211	-11.515	1.00	0.00
ATOM	579	HG13	ILE	36	1.300	-0.900	-12.684	1.00	0.00
ATOM	580	CD1	ILE	36	1.542	0.101	-10.791	1.00	0.00
ATOM	581	HD11	ILE	36	0.910	0.547	-10.024	1.00	0.00
ATOM	582	HD12	ILE	36	2.127	-0.708	-10.353	1.00	0.00
ATOM	583	HD13	ILE	36	2.215	0.858	-11.193	1.00	0.00
ATOM	584	C	ILE	36	-0.784	-0.820	-14.431	1.00	0.00
ATOM	585	O	ILE	36	-0.269	-0.358	-15.429	1.00	0.00
ATOM	586	N	MET	37	-0.896	-2.110	-14.265	1.00	0.00
ATOM	587	H	MET	37	-1.320	-2.508	-13.439	1.00	0.00
ATOM	588	CA	MET	37	-0.384	-3.039	-15.314	1.00	0.00
ATOM	589	HA	MET	37	0.267	-2.505	-16.006	1.00	0.00
ATOM	590	CB	MET	37	0.419	-4.163	-14.657	1.00	0.00
ATOM	591	HB2	MET	37	-0.148	-4.577	-13.823	1.00	0.00
ATOM	592	HB3	MET	37	0.614	-4.948	-15.389	1.00	0.00
ATOM	593	CG	MET	37	1.748	-3.605	-14.142	1.00	0.00
ATOM	594	HG2	MET	37	2.164	-2.911	-14.872	1.00	0.00
ATOM	595	HG3	MET	37	1.589	-3.086	-13.197	1.00	0.00

ATOM	596	SD	MET	37	2.913	-4.965	-13.883	1.00	0.00
ATOM	597	CE	MET	37	1.918	-5.894	-12.691	1.00	0.00
ATOM	598	HE1	MET	37	0.971	-6.177	-13.150	1.00	0.00
ATOM	599	HE2	MET	37	2.457	-6.793	-12.389	1.00	0.00
ATOM	600	HE3	MET	37	1.727	-5.274	-11.815	1.00	0.00
ATOM	601	C	MET	37	-1.562	-3.635	-16.086	1.00	0.00
ATOM	602	O	MET	37	-1.411	-4.115	-17.193	1.00	0.00
ATOM	603	N	GLY	38	-2.735	-3.610	-15.515	1.00	0.00
ATOM	604	H	GLY	38	-2.869	-3.214	-14.596	1.00	0.00
ATOM	605	CA	GLY	38	-3.919	-4.176	-16.220	1.00	0.00
ATOM	606	HA2	GLY	38	-3.710	-5.197	-16.542	1.00	0.00
ATOM	607	HA3	GLY	38	-4.784	-4.175	-15.558	1.00	0.00
ATOM	608	C	GLY	38	-4.231	-3.320	-17.450	1.00	0.00
ATOM	609	O	GLY	38	-4.810	-3.786	-18.412	1.00	0.00
ATOM	610	N	GLU	39	-3.852	-2.072	-17.425	1.00	0.00
ATOM	611	H	GLU	39	-3.372	-1.679	-16.628	1.00	0.00
ATOM	612	CA	GLU	39	-4.126	-1.187	-18.592	1.00	0.00
ATOM	613	HA	GLU	39	-5.194	-1.169	-18.810	1.00	0.00
ATOM	614	CB	GLU	39	-3.667	0.237	-18.272	1.00	0.00
ATOM	615	HB2	GLU	39	-4.128	0.567	-17.341	1.00	0.00
ATOM	616	HB3	GLU	39	-2.582	0.254	-18.166	1.00	0.00
ATOM	617	CG	GLU	39	-4.083	1.174	-19.407	1.00	0.00

ATOM	618	HG2	GLU	39	-3.706	0.787	-20.354	1.00	0.00
ATOM	619	HG3	GLU	39	-5.170	1.236	-19.447	1.00	0.00
ATOM	620	CD	GLU	39	-3.502	2.567	-19.158	1.00	0.00
ATOM	621	OE1	GLU	39	-2.791	2.724	-18.178	1.00	0.00
ATOM	622	OE2	GLU	39	-3.777	3.453	-19.950	1.00	0.00
ATOM	623	C	GLU	39	-3.368	-1.706	-19.815	1.00	0.00
ATOM	624	O	GLU	39	-3.752	-1.467	-20.943	1.00	0.00
ATOM	625	N	GLN	40	-2.292	-2.413	-19.602	1.00	0.00
ATOM	626	H	GLN	40	-1.964	-2.615	-18.668	1.00	0.00
ATOM	627	CA	GLN	40	-1.512	-2.946	-20.754	1.00	0.00
ATOM	628	HA	GLN	40	-1.238	-2.138	-21.432	1.00	0.00
ATOM	629	CB	GLN	40	-0.232	-3.609	-20.241	1.00	0.00
ATOM	630	HB2	GLN	40	-0.481	-4.319	-19.452	1.00	0.00
ATOM	631	HB3	GLN	40	0.259	-4.136	-21.060	1.00	0.00
ATOM	632	CG	GLN	40	0.710	-2.539	-19.686	1.00	0.00
ATOM	633	HG2	GLN	40	0.967	-1.820	-20.464	1.00	0.00
ATOM	634	HG3	GLN	40	0.240	-2.019	-18.852	1.00	0.00
ATOM	635	CD	GLN	40	1.996	-3.200	-19.187	1.00	0.00
ATOM	636	OE1	GLN	40	2.058	-4.406	-19.048	1.00	0.00
ATOM	637	NE2	GLN	40	3.034	-2.458	-18.911	1.00	0.00
ATOM	638	HE21	GLN	40	3.886	-2.890	-18.581	1.00	0.00
ATOM	639	HE22	GLN	40	2.981	-1.457	-19.029	1.00	0.00

ATOM	640	C	GLN	40	-2.356	-3.977	-21.505	1.00	0.00
ATOM	641	O	GLN	40	-2.253	-4.122	-22.706	1.00	0.00
ATOM	642	N	GLU	41	-3.191	-4.695	-20.804	1.00	0.00
ATOM	643	H	GLU	41	-3.280	-4.583	-19.804	1.00	0.00
ATOM	644	CA	GLU	41	-4.043	-5.715	-21.479	1.00	0.00
ATOM	645	HA	GLU	41	-3.421	-6.486	-21.935	1.00	0.00
ATOM	646	CB	GLU	41	-4.962	-6.374	-20.448	1.00	0.00
ATOM	647	HB2	GLU	41	-5.573	-5.612	-19.966	1.00	0.00
ATOM	648	HB3	GLU	41	-5.609	-7.096	-20.947	1.00	0.00
ATOM	649	CG	GLU	41	-4.116	-7.091	-19.394	1.00	0.00
ATOM	650	HG2	GLU	41	-3.482	-7.834	-19.879	1.00	0.00
ATOM	651	HG3	GLU	41	-3.491	-6.365	-18.874	1.00	0.00
ATOM	652	CD	GLU	41	-5.036	-7.785	-18.388	1.00	0.00
ATOM	653	OE1	GLU	41	-6.231	-7.552	-18.450	1.00	0.00
ATOM	654	OE2	GLU	41	-4.529	-8.538	-17.574	1.00	0.00
ATOM	655	C	GLU	41	-4.888	-5.038	-22.560	1.00	0.00
ATOM	656	O	GLU	41	-5.391	-3.949	-22.374	1.00	0.00
ATOM	657	N	GLN	42	-5.048	-5.676	-23.687	1.00	0.00
ATOM	658	H	GLN	42	-4.631	-6.582	-23.850	1.00	0.00
ATOM	659	CA	GLN	42	-5.861	-5.067	-24.776	1.00	0.00
ATOM	660	HA	GLN	42	-5.461	-4.090	-25.046	1.00	0.00
ATOM	661	CB	GLN	42	-5.818	-5.971	-26.010	1.00	0.00

ATOM	662	HB2	GLN	42	-6.163	-6.970	-25.742	1.00	0.00
ATOM	663	HB3	GLN	42	-6.464	-5.560	-26.785	1.00	0.00
ATOM	664	CG	GLN	42	-4.383	-6.051	-26.533	1.00	0.00
ATOM	665	HG2	GLN	42	-3.729	-6.493	-25.781	1.00	0.00
ATOM	666	HG3	GLN	42	-4.345	-6.650	-27.443	1.00	0.00
ATOM	667	CD	GLN	42	-3.878	-4.642	-26.853	1.00	0.00
ATOM	668	OE1	GLN	42	-4.529	-3.895	-27.555	1.00	0.00
ATOM	669	NE2	GLN	42	-2.736	-4.245	-26.363	1.00	0.00
ATOM	670	HE21	GLN	42	-2.396	-3.317	-26.570	1.00	0.00
ATOM	671	HE22	GLN	42	-2.196	-4.868	-25.779	1.00	0.00
ATOM	672	C	GLN	42	-7.308	-4.910	-24.306	1.00	0.00
ATOM	673	O	GLN	42	-7.979	-3.954	-24.638	1.00	0.00
ATOM	674	N	TYR	43	-7.795	-5.843	-23.533	1.00	0.00
ATOM	675	H	TYR	43	-7.243	-6.641	-23.251	1.00	0.00
ATOM	676	CA	TYR	43	-9.199	-5.746	-23.042	1.00	0.00
ATOM	677	HA	TYR	43	-9.683	-4.861	-23.455	1.00	0.00
ATOM	678	CB	TYR	43	-9.983	-6.984	-23.485	1.00	0.00
ATOM	679	HB2	TYR	43	-9.521	-7.876	-23.061	1.00	0.00
ATOM	680	HB3	TYR	43	-11.013	-6.909	-23.137	1.00	0.00
ATOM	681	CG	TYR	43	-9.967	-7.077	-24.992	1.00	0.00
ATOM	682	CD1	TYR	43	-10.842	-6.290	-25.751	1.00	0.00
ATOM	683	HD1	TYR	43	-11.533	-5.610	-25.255	1.00	0.00



ATOM	684	CE1	TYR	43	-10.828	-6.378	-27.148	1.00	0.00
ATOM	685	HE1	TYR	43	-11.509	-5.766	-27.739	1.00	0.00
ATOM	686	CZ	TYR	43	-9.941	-7.253	-27.786	1.00	0.00
ATOM	687	OH	TYR	43	-9.928	-7.339	-29.164	1.00	0.00
ATOM	688	HH	TYR	43	-10.566	-6.757	-29.582	1.00	0.00
ATOM	689	CE2	TYR	43	-9.066	-8.039	-27.027	1.00	0.00
ATOM	690	HE2	TYR	43	-8.374	-8.720	-27.523	1.00	0.00
ATOM	691	CD2	TYR	43	-9.080	-7.951	-25.631	1.00	0.00
ATOM	692	HD2	TYR	43	-8.399	-8.564	-25.040	1.00	0.00
ATOM	693	C	TYR	43	-9.199	-5.665	-21.514	1.00	0.00
ATOM	694	O	TYR	43	-8.252	-6.057	-20.862	1.00	0.00
ATOM	695	N	ASP	44	-10.255	-5.159	-20.938	1.00	0.00
ATOM	696	H	ASP	44	-11.046	-4.832	-21.473	1.00	0.00
ATOM	697	CA	ASP	44	-10.314	-5.053	-19.453	1.00	0.00
ATOM	698	HA	ASP	44	-10.320	-6.046	-19.004	1.00	0.00
ATOM	699	CB	ASP	44	-9.086	-4.294	-18.944	1.00	0.00
ATOM	700	HB2	ASP	44	-9.211	-4.070	-17.885	1.00	0.00
ATOM	701	HB3	ASP	44	-8.195	-4.907	-19.082	1.00	0.00
ATOM	702	CG	ASP	44	-8.933	-2.988	-19.727	1.00	0.00
ATOM	703	OD1	ASP	44	-9.649	-2.815	-20.699	1.00	0.00
ATOM	704	OD2	ASP	44	-8.100	-2.185	-19.340	1.00	0.00
ATOM	705	C	ASP	44	-11.583	-4.301	-19.046	1.00	0.00

ATOM	706	O	ASP	44	-12.290	-4.698	-18.142	1.00	0.00
ATOM	707	N	SER	45	-11.878	-3.215	-19.708	1.00	0.00
ATOM	708	H	SER	45	-11.295	-2.877	-20.460	1.00	0.00
ATOM	709	CA	SER	45	-13.102	-2.440	-19.360	1.00	0.00
ATOM	710	HA	SER	45	-12.980	-1.954	-18.392	1.00	0.00
ATOM	711	CB	SER	45	-13.341	-1.364	-20.421	1.00	0.00
ATOM	712	HB2	SER	45	-14.147	-0.706	-20.097	1.00	0.00
ATOM	713	HB3	SER	45	-12.430	-0.782	-20.559	1.00	0.00
ATOM	714	OG	SER	45	-13.699	-1.981	-21.649	1.00	0.00
ATOM	715	HG	SER	45	-13.849	-1.306	-22.315	1.00	0.00
ATOM	716	C	SER	45	-14.305	-3.382	-19.308	1.00	0.00
ATOM	717	O	SER	45	-15.203	-3.215	-18.507	1.00	0.00
ATOM	718	N	TYR	46	-14.332	-4.372	-20.159	1.00	0.00
ATOM	719	H	TYR	46	-13.588	-4.518	-20.827	1.00	0.00
ATOM	720	CA	TYR	46	-15.478	-5.323	-20.160	1.00	0.00
ATOM	721	HA	TYR	46	-16.411	-4.791	-20.346	1.00	0.00
ATOM	722	CB	TYR	46	-15.278	-6.361	-21.266	1.00	0.00
ATOM	723	HB2	TYR	46	-14.312	-6.851	-21.138	1.00	0.00
ATOM	724	HB3	TYR	46	-16.072	-7.106	-21.213	1.00	0.00
ATOM	725	CG	TYR	46	-15.320	-5.676	-22.611	1.00	0.00
ATOM	726	CD1	TYR	46	-16.512	-5.102	-23.067	1.00	0.00
ATOM	727	HD1	TYR	46	-17.410	-5.151	-22.451	1.00	0.00

ATOM	728	CE1	TYR	46	-16.552	-4.466	-24.314	1.00	0.00
ATOM	729	HE1	TYR	46	-17.480	-4.020	-24.669	1.00	0.00
ATOM	730	CZ	TYR	46	-15.398	-4.403	-25.104	1.00	0.00
ATOM	731	OH	TYR	46	-15.437	-3.777	-26.333	1.00	0.00
ATOM	732	HH	TYR	46	-16.303	-3.422	-26.546	1.00	0.00
ATOM	733	CE2	TYR	46	-14.205	-4.976	-24.648	1.00	0.00
ATOM	734	HE2	TYR	46	-13.307	-4.927	-25.264	1.00	0.00
ATOM	735	CD2	TYR	46	-14.165	-5.613	-23.401	1.00	0.00
ATOM	736	HD2	TYR	46	-13.236	-6.059	-23.046	1.00	0.00
ATOM	737	C	TYR	46	-15.555	-6.031	-18.805	1.00	0.00
ATOM	738	O	TYR	46	-16.620	-6.210	-18.248	1.00	0.00
ATOM	739	N	ASP	47	-14.435	-6.436	-18.271	1.00	0.00
ATOM	740	H	ASP	47	-13.545	-6.291	-18.727	1.00	0.00
ATOM	741	CA	ASP	47	-14.448	-7.132	-16.954	1.00	0.00
ATOM	742	HA	ASP	47	-15.459	-7.456	-16.707	1.00	0.00
ATOM	743	CB	ASP	47	-13.543	-8.364	-17.019	1.00	0.00
ATOM	744	HB2	ASP	47	-12.549	-8.072	-17.359	1.00	0.00
ATOM	745	HB3	ASP	47	-13.470	-8.813	-16.028	1.00	0.00
ATOM	746	CG	ASP	47	-14.137	-9.381	-17.996	1.00	0.00
ATOM	747	OD1	ASP	47	-15.297	-9.232	-18.343	1.00	0.00
ATOM	748	OD2	ASP	47	-13.421	-10.290	-18.383	1.00	0.00
ATOM	749	C	ASP	47	-13.936	-6.182	-15.869	1.00	0.00

ATOM	750	O	ASP	47	-12.813	-5.718	-15.916	1.00	0.00
ATOM	751	N	ILE	48	-14.749	-5.887	-14.892	1.00	0.00
ATOM	752	H	ILE	48	-15.683	-6.269	-14.845	1.00	0.00
ATOM	753	CA	ILE	48	-14.307	-4.966	-13.807	1.00	0.00
ATOM	754	HA	ILE	48	-14.059	-3.994	-14.233	1.00	0.00
ATOM	755	CB	ILE	48	-15.435	-4.803	-12.786	1.00	0.00
ATOM	756	HB	ILE	48	-15.671	-5.773	-12.347	1.00	0.00
ATOM	757	CG2	ILE	48	-14.990	-3.840	-11.684	1.00	0.00
ATOM	758	HG21	ILE	48	-14.753	-2.871	-12.122	1.00	0.00
ATOM	759	HG22	ILE	48	-15.793	-3.724	-10.956	1.00	0.00
ATOM	760	HG23	ILE	48	-14.105	-4.240	-11.187	1.00	0.00
ATOM	761	CG1	ILE	48	-16.677	-4.242	-13.482	1.00	0.00
ATOM	762	HG12	ILE	48	-16.477	-3.225	-13.819	1.00	0.00
ATOM	763	HG13	ILE	48	-16.926	-4.866	-14.341	1.00	0.00
ATOM	764	CD1	ILE	48	-17.851	-4.233	-12.501	1.00	0.00
ATOM	765	HD11	ILE	48	-17.603	-3.609	-11.642	1.00	0.00
ATOM	766	HD12	ILE	48	-18.736	-3.834	-12.996	1.00	0.00
ATOM	767	HD13	ILE	48	-18.051	-5.251	-12.164	1.00	0.00
ATOM	768	C	ILE	48	-13.074	-5.550	-13.116	1.00	0.00
ATOM	769	O	ILE	48	-12.119	-4.854	-12.836	1.00	0.00
ATOM	770	N	ARG	49	-13.087	-6.826	-12.837	1.00	0.00
ATOM	771	H	ARG	49	-13.877	-7.412	-13.067	1.00	0.00

ATOM	772	CA	ARG	49	-11.916	-7.453	-12.164	1.00	0.00
ATOM	773	HA	ARG	49	-11.056	-6.784	-12.199	1.00	0.00
ATOM	774	CB	ARG	49	-12.258	-7.733	-10.699	1.00	0.00
ATOM	775	HB2	ARG	49	-13.143	-8.368	-10.646	1.00	0.00
ATOM	776	HB3	ARG	49	-11.420	-8.239	-10.220	1.00	0.00
ATOM	777	CG	ARG	49	-12.535	-6.411	-9.979	1.00	0.00
ATOM	778	HG2	ARG	49	-13.293	-5.851	-10.526	1.00	0.00
ATOM	779	HG3	ARG	49	-12.891	-6.615	-8.969	1.00	0.00
ATOM	780	CD	ARG	49	-11.246	-5.589	-9.909	1.00	0.00
ATOM	781	HD2	ARG	49	-10.449	-6.175	-9.449	1.00	0.00
ATOM	782	HD3	ARG	49	-10.939	-5.282	-10.909	1.00	0.00
ATOM	783	NE	ARG	49	-11.479	-4.370	-9.085	1.00	0.00
ATOM	784	HE	ARG	49	-12.390	-4.156	-8.706	1.00	0.00
ATOM	785	CZ	ARG	49	-10.494	-3.551	-8.838	1.00	0.00
ATOM	786	NH1	ARG	49	-9.264	-3.922	-9.066	1.00	0.00
ATOM	787	HH11	ARG	49	-9.078	-4.844	-9.434	1.00	0.00
ATOM	788	HH12	ARG	49	-8.504	-3.286	-8.874	1.00	0.00
ATOM	789	NH2	ARG	49	-10.739	-2.360	-8.363	1.00	0.00
ATOM	790	HH21	ARG	49	-11.692	-2.076	-8.188	1.00	0.00
ATOM	791	HH22	ARG	49	-9.974	-1.729	-8.173	1.00	0.00
ATOM	792	C	ARG	49	-11.568	-8.768	-12.866	1.00	0.00
ATOM	793	O	ARG	49	-12.435	-9.486	-13.323	1.00	0.00

ATOM	794	N	SER	50	-10.306	-9.087	-12.957	1.00	0.00
ATOM	795	H	SER	50	-9.580	-8.495	-12.581	1.00	0.00
ATOM	796	CA	SER	50	-9.905	-10.354	-13.630	1.00	0.00
ATOM	797	HA	SER	50	-10.156	-10.316	-14.690	1.00	0.00
ATOM	798	CB	SER	50	-8.393	-10.547	-13.492	1.00	0.00
ATOM	799	HB2	SER	50	-8.136	-10.667	-12.440	1.00	0.00
ATOM	800	HB3	SER	50	-8.087	-11.437	-14.044	1.00	0.00
ATOM	801	OG	SER	50	-7.722	-9.412	-14.016	1.00	0.00
ATOM	802	HG	SER	50	-6.773	-9.533	-13.930	1.00	0.00
ATOM	803	C	SER	50	-10.632	-11.532	-12.977	1.00	0.00
ATOM	804	O	SER	50	-11.074	-12.447	-13.644	1.00	0.00
ATOM	805	N	THR	51	-10.759	-11.517	-11.679	1.00	0.00
ATOM	806	H	THR	51	-10.394	-10.761	-11.119	1.00	0.00
ATOM	807	CA	THR	51	-11.457	-12.636	-10.986	1.00	0.00
ATOM	808	HA	THR	51	-12.155	-13.128	-11.663	1.00	0.00
ATOM	809	CB	THR	51	-10.428	-13.665	-10.514	1.00	0.00
ATOM	810	HB	THR	51	-9.765	-13.921	-11.341	1.00	0.00
ATOM	811	CG2	THR	51	-9.607	-13.080	-9.365	1.00	0.00
ATOM	812	HG21	THR	51	-10.269	-12.825	-8.538	1.00	0.00
ATOM	813	HG22	THR	51	-8.874	-13.815	-9.030	1.00	0.00
ATOM	814	HG23	THR	51	-9.091	-12.183	-9.707	1.00	0.00
ATOM	815	OG1	THR	51	-11.099	-14.837	-10.071	1.00	0.00

ATOM	816	HG1	THR	51	-10.453	-15.483	-9.775	1.00	0.00
ATOM	817	C	THR	51	-12.223	-12.091	-9.779	1.00	0.00
ATOM	818	O	THR	51	-11.897	-11.050	-9.244	1.00	0.00
ATOM	819	N	ARG	52	-13.239	-12.786	-9.346	1.00	0.00
ATOM	820	H	ARG	52	-13.515	-13.653	-9.785	1.00	0.00
ATOM	821	CA	ARG	52	-14.025	-12.306	-8.174	1.00	0.00
ATOM	822	HA	ARG	52	-14.439	-11.319	-8.376	1.00	0.00
ATOM	823	CB	ARG	52	-15.178	-13.274	-7.902	1.00	0.00
ATOM	824	HB2	ARG	52	-14.784	-14.283	-7.773	1.00	0.00
ATOM	825	HB3	ARG	52	-15.702	-12.971	-6.996	1.00	0.00
ATOM	826	CG	ARG	52	-16.149	-13.254	-9.084	1.00	0.00
ATOM	827	HG2	ARG	52	-16.465	-12.229	-9.278	1.00	0.00
ATOM	828	HG3	ARG	52	-15.654	-13.656	-9.969	1.00	0.00
ATOM	829	CD	ARG	52	-17.374	-14.111	-8.752	1.00	0.00
ATOM	830	HD2	ARG	52	-17.906	-13.695	-7.897	1.00	0.00
ATOM	831	HD3	ARG	52	-18.045	-14.159	-9.609	1.00	0.00
ATOM	832	NE	ARG	52	-16.934	-15.493	-8.413	1.00	0.00
ATOM	833	HE	ARG	52	-16.017	-15.678	-8.032	1.00	0.00
ATOM	834	CZ	ARG	52	-17.742	-16.500	-8.607	1.00	0.00
ATOM	835	NH1	ARG	52	-18.146	-17.217	-7.594	1.00	0.00
ATOM	836	HH11	ARG	52	-17.831	-16.991	-6.661	1.00	0.00
ATOM	837	HH12	ARG	52	-18.771	-17.996	-7.748	1.00	0.00

ATOM	838	NH2	ARG	52	-18.145	-16.789	-9.813	1.00	0.00
ATOM	839	HH21	ARG	52	-17.830	-16.232	-10.594	1.00	0.00
ATOM	840	HH22	ARG	52	-18.770	-17.569	-9.960	1.00	0.00
ATOM	841	C	ARG	52	-13.118	-12.237	-6.944	1.00	0.00
ATOM	842	O	ARG	52	-13.281	-11.389	-6.089	1.00	0.00
ATOM	843	N	SER	53	-12.164	-13.121	-6.847	1.00	0.00
ATOM	844	H	SER	53	-12.024	-13.829	-7.554	1.00	0.00
ATOM	845	CA	SER	53	-11.248	-13.106	-5.672	1.00	0.00
ATOM	846	HA	SER	53	-11.811	-13.259	-4.752	1.00	0.00
ATOM	847	CB	SER	53	-10.222	-14.233	-5.809	1.00	0.00
ATOM	848	HB2	SER	53	-9.662	-14.332	-4.879	1.00	0.00
ATOM	849	HB3	SER	53	-10.736	-15.170	-6.024	1.00	0.00
ATOM	850	OG	SER	53	-9.327	-13.931	-6.870	1.00	0.00
ATOM	851	HG	SER	53	-8.683	-14.638	-6.956	1.00	0.00
ATOM	852	C	SER	53	-10.524	-11.760	-5.607	1.00	0.00
ATOM	853	O	SER	53	-10.025	-11.362	-4.572	1.00	0.00
ATOM	854	N	SER	54	-10.460	-11.055	-6.703	1.00	0.00
ATOM	855	H	SER	54	-10.872	-11.380	-7.566	1.00	0.00
ATOM	856	CA	SER	54	-9.767	-9.736	-6.703	1.00	0.00
ATOM	857	HA	SER	54	-8.700	-9.870	-6.523	1.00	0.00
ATOM	858	CB	SER	54	-9.953	-9.061	-8.063	1.00	0.00
ATOM	859	HB2	SER	54	-9.634	-9.741	-8.853	1.00	0.00



ATOM	860	HB3	SER	54	-11.004	-8.809	-8.203	1.00	0.00
ATOM	861	OG	SER	54	-9.172	-7.877	-8.115	1.00	0.00
ATOM	862	HG	SER	54	-9.289	-7.454	-8.969	1.00	0.00
ATOM	863	C	SER	54	-10.361	-8.848	-5.608	1.00	0.00
ATOM	864	O	SER	54	-9.678	-8.037	-5.015	1.00	0.00
ATOM	865	N	ASP	55	-11.628	-8.993	-5.336	1.00	0.00
ATOM	866	H	ASP	55	-12.202	-9.664	-5.826	1.00	0.00
ATOM	867	CA	ASP	55	-12.264	-8.156	-4.279	1.00	0.00
ATOM	868	HA	ASP	55	-12.162	-7.099	-4.522	1.00	0.00
ATOM	869	CB	ASP	55	-13.753	-8.496	-4.187	1.00	0.00
ATOM	870	HB2	ASP	55	-13.873	-9.573	-4.068	1.00	0.00
ATOM	871	HB3	ASP	55	-14.190	-7.986	-3.329	1.00	0.00
ATOM	872	CG	ASP	55	-14.461	-8.042	-5.465	1.00	0.00
ATOM	873	OD1	ASP	55	-13.848	-7.319	-6.233	1.00	0.00
ATOM	874	OD2	ASP	55	-15.604	-8.425	-5.654	1.00	0.00
ATOM	875	C	ASP	55	-11.593	-8.435	-2.933	1.00	0.00
ATOM	876	O	ASP	55	-11.591	-7.605	-2.046	1.00	0.00
ATOM	877	N	GLN	56	-11.022	-9.598	-2.774	1.00	0.00
ATOM	878	H	GLN	56	-11.019	-10.293	-3.507	1.00	0.00
ATOM	879	CA	GLN	56	-10.351	-9.928	-1.485	1.00	0.00
ATOM	880	HA	GLN	56	-11.053	-9.832	-0.657	1.00	0.00
ATOM	881	CB	GLN	56	-9.843	-11.370	-1.530	1.00	0.00

ATOM	882	HB2	GLN	56	-9.125	-11.478	-2.344	1.00	0.00
ATOM	883	HB3	GLN	56	-9.358	-11.615	-0.585	1.00	0.00
ATOM	884	CG	GLN	56	-11.020	-12.320	-1.760	1.00	0.00
ATOM	885	HG2	GLN	56	-11.860	-12.044	-1.123	1.00	0.00
ATOM	886	HG3	GLN	56	-11.331	-12.290	-2.804	1.00	0.00
ATOM	887	CD	GLN	56	-10.596	-13.750	-1.418	1.00	0.00
ATOM	888	OE1	GLN	56	-11.379	-14.521	-0.901	1.00	0.00
ATOM	889	NE2	GLN	56	-9.380	-14.139	-1.688	1.00	0.00
ATOM	890	HE21	GLN	56	-9.093	-15.082	-1.465	1.00	0.00
ATOM	891	HE22	GLN	56	-8.731	-13.496	-2.119	1.00	0.00
ATOM	892	C	GLN	56	-9.171	-8.980	-1.264	1.00	0.00
ATOM	893	O	GLN	56	-8.868	-8.600	-0.151	1.00	0.00
ATOM	894	N	GLN	57	-8.503	-8.595	-2.317	1.00	0.00
ATOM	895	H	GLN	57	-8.749	-8.908	-3.245	1.00	0.00
ATOM	896	CA	GLN	57	-7.342	-7.673	-2.167	1.00	0.00
ATOM	897	HA	GLN	57	-6.496	-8.199	-1.723	1.00	0.00
ATOM	898	CB	GLN	57	-6.925	-7.150	-3.543	1.00	0.00
ATOM	899	HB2	GLN	57	-7.771	-6.653	-4.016	1.00	0.00
ATOM	900	HB3	GLN	57	-6.104	-6.442	-3.431	1.00	0.00
ATOM	901	CG	GLN	57	-6.471	-8.322	-4.415	1.00	0.00
ATOM	902	HG2	GLN	57	-5.583	-8.789	-3.989	1.00	0.00
ATOM	903	HG3	GLN	57	-7.266	-9.063	-4.497	1.00	0.00

ATOM	904	CD	GLN	57	-6.131	-7.813	-5.817	1.00	0.00
ATOM	905	OE1	GLN	57	-6.525	-6.728	-6.195	1.00	0.00
ATOM	906	NE2	GLN	57	-5.409	-8.558	-6.610	1.00	0.00
ATOM	907	HE21	GLN	57	-5.180	-8.230	-7.537	1.00	0.00
ATOM	908	HE22	GLN	57	-5.082	-9.460	-6.293	1.00	0.00
ATOM	909	C	GLN	57	-7.737	-6.497	-1.270	1.00	0.00
ATOM	910	O	GLN	57	-7.008	-6.112	-0.378	1.00	0.00
ATOM	911	N	GLN	58	-8.886	-5.922	-1.500	1.00	0.00
ATOM	912	H	GLN	58	-9.498	-6.237	-2.239	1.00	0.00
ATOM	913	CA	GLN	58	-9.325	-4.773	-0.661	1.00	0.00
ATOM	914	HA	GLN	58	-8.743	-3.884	-0.904	1.00	0.00
ATOM	915	CB	GLN	58	-10.803	-4.479	-0.929	1.00	0.00
ATOM	916	HB2	GLN	58	-11.404	-5.340	-0.635	1.00	0.00
ATOM	917	HB3	GLN	58	-11.111	-3.608	-0.352	1.00	0.00
ATOM	918	CG	GLN	58	-11.006	-4.201	-2.420	1.00	0.00
ATOM	919	HG2	GLN	58	-10.223	-3.541	-2.794	1.00	0.00
ATOM	920	HG3	GLN	58	-10.993	-5.134	-2.984	1.00	0.00
ATOM	921	CD	GLN	58	-12.361	-3.521	-2.630	1.00	0.00
ATOM	922	OE1	GLN	58	-12.503	-2.679	-3.494	1.00	0.00
ATOM	923	NE2	GLN	58	-13.369	-3.854	-1.872	1.00	0.00
ATOM	924	HE21	GLN	58	-14.266	-3.410	-2.005	1.00	0.00
ATOM	925	HE22	GLN	58	-13.248	-4.556	-1.155	1.00	0.00

ATOM	926	C	GLN	58	-9.137	-5.120	0.817	1.00	0.00
ATOM	927	O	GLN	58	-8.705	-4.303	1.606	1.00	0.00
ATOM	928	N	ARG	59	-9.459	-6.326	1.199	1.00	0.00
ATOM	929	H	ARG	59	-9.819	-7.011	0.549	1.00	0.00
ATOM	930	CA	ARG	59	-9.301	-6.722	2.626	1.00	0.00
ATOM	931	HA	ARG	59	-10.037	-6.209	3.245	1.00	0.00
ATOM	932	CB	ARG	59	-9.514	-8.231	2.763	1.00	0.00
ATOM	933	HB2	ARG	59	-8.785	-8.760	2.148	1.00	0.00
ATOM	934	HB3	ARG	59	-9.389	-8.524	3.806	1.00	0.00
ATOM	935	CG	ARG	59	-10.927	-8.589	2.299	1.00	0.00
ATOM	936	HG2	ARG	59	-11.656	-8.035	2.890	1.00	0.00
ATOM	937	HG3	ARG	59	-11.041	-8.330	1.246	1.00	0.00
ATOM	938	CD	ARG	59	-11.158	-10.091	2.482	1.00	0.00
ATOM	939	HD2	ARG	59	-10.369	-10.658	1.988	1.00	0.00
ATOM	940	HD3	ARG	59	-11.177	-10.345	3.542	1.00	0.00
ATOM	941	NE	ARG	59	-12.467	-10.468	1.877	1.00	0.00
ATOM	942	HE	ARG	59	-12.560	-10.646	0.887	1.00	0.00
ATOM	943	CZ	ARG	59	-13.527	-10.576	2.632	1.00	0.00
ATOM	944	NH1	ARG	59	-13.826	-11.723	3.177	1.00	0.00
ATOM	945	HH11	ARG	59	-13.235	-12.526	3.013	1.00	0.00
ATOM	946	HH12	ARG	59	-14.646	-11.803	3.760	1.00	0.00
ATOM	947	NH2	ARG	59	-14.287	-9.535	2.841	1.00	0.00

ATOM	948	HH21	ARG	59	-14.052	-8.649	2.417	1.00	0.00
ATOM	949	HH22	ARG	59	-15.106	-9.621	3.425	1.00	0.00
ATOM	950	C	ARG	59	-7.896	-6.358	3.105	1.00	0.00
ATOM	951	O	ARG	59	-7.682	-6.065	4.264	1.00	0.00
ATOM	952	N	CYX	60	-6.936	-6.367	2.223	1.00	0.00
ATOM	953	H	CYX	60	-7.103	-6.607	1.256	1.00	0.00
ATOM	954	CA	CYX	60	-5.548	-6.015	2.633	1.00	0.00
ATOM	955	HA	CYX	60	-5.098	-6.835	3.194	1.00	0.00
ATOM	956	CB	CYX	60	-4.701	-5.754	1.384	1.00	0.00
ATOM	957	HB2	CYX	60	-4.450	-6.703	0.909	1.00	0.00
ATOM	958	HB3	CYX	60	-5.264	-5.136	0.685	1.00	0.00
ATOM	959	SG	CYX	60	-3.143	-4.962	1.856	1.00	0.00
ATOM	960	C	CYX	60	-5.590	-4.755	3.500	1.00	0.00
ATOM	961	O	CYX	60	-5.678	-4.824	4.711	1.00	0.00
ATOM	962	N	CYX	61	-5.528	-3.607	2.888	1.00	0.00
ATOM	963	H	CYX	61	-5.451	-3.544	1.883	1.00	0.00
ATOM	964	CA	CYX	61	-5.566	-2.342	3.675	1.00	0.00
ATOM	965	HA	CYX	61	-4.594	-2.155	4.133	1.00	0.00
ATOM	966	CB	CYX	61	-5.906	-1.171	2.752	1.00	0.00
ATOM	967	HB2	CYX	61	-5.984	-1.528	1.725	1.00	0.00
ATOM	968	HB3	CYX	61	-6.855	-0.732	3.057	1.00	0.00
ATOM	969	SG	CYX	61	-4.572	0.052	2.815	1.00	0.00

ATOM	970	C	CYX	61	-6.630	-2.459	4.769	1.00	0.00
ATOM	971	O	CYX	61	-6.443	-2.008	5.881	1.00	0.00
ATOM	972	N	ASP	62	-7.744	-3.063	4.460	1.00	0.00
ATOM	973	H	ASP	62	-7.905	-3.441	3.537	1.00	0.00
ATOM	974	CA	ASP	62	-8.820	-3.209	5.482	1.00	0.00
ATOM	975	HA	ASP	62	-9.150	-2.229	5.825	1.00	0.00
ATOM	976	CB	ASP	62	-10.014	-3.939	4.866	1.00	0.00
ATOM	977	HB2	ASP	62	-9.683	-4.889	4.446	1.00	0.00
ATOM	978	HB3	ASP	62	-10.763	-4.124	5.635	1.00	0.00
ATOM	979	CG	ASP	62	-10.623	-3.077	3.758	1.00	0.00
ATOM	980	OD1	ASP	62	-10.269	-1.911	3.680	1.00	0.00
ATOM	981	OD2	ASP	62	-11.432	-3.595	3.006	1.00	0.00
ATOM	982	C	ASP	62	-8.289	-4.012	6.669	1.00	0.00
ATOM	983	O	ASP	62	-8.619	-3.748	7.809	1.00	0.00
ATOM	984	N	GLU	63	-7.465	-4.988	6.413	1.00	0.00
ATOM	985	H	GLU	63	-7.186	-5.215	5.469	1.00	0.00
ATOM	986	CA	GLU	63	-6.908	-5.803	7.528	1.00	0.00
ATOM	987	HA	GLU	63	-7.715	-6.235	8.120	1.00	0.00
ATOM	988	CB	GLU	63	-6.059	-6.940	6.956	1.00	0.00
ATOM	989	HB2	GLU	63	-5.455	-6.563	6.130	1.00	0.00
ATOM	990	HB3	GLU	63	-5.404	-7.332	7.734	1.00	0.00
ATOM	991	CG	GLU	63	-6.974	-8.056	6.450	1.00	0.00

ATOM	992	HG2	GLU	63	-7.651	-8.361	7.248	1.00	0.00
ATOM	993	HG3	GLU	63	-7.554	-7.694	5.601	1.00	0.00
ATOM	994	CD	GLU	63	-6.127	-9.253	6.015	1.00	0.00
ATOM	995	OE1	GLU	63	-4.915	-9.171	6.135	1.00	0.00
ATOM	996	OE2	GLU	63	-6.704	-10.232	5.569	1.00	0.00
ATOM	997	C	GLU	63	-6.040	-4.910	8.415	1.00	0.00
ATOM	998	O	GLU	63	-6.182	-4.888	9.621	1.00	0.00
ATOM	999	N	LEU	64	-5.141	-4.172	7.824	1.00	0.00
ATOM	1000	H	LEU	64	-5.020	-4.188	6.821	1.00	0.00
ATOM	1001	CA	LEU	64	-4.261	-3.278	8.627	1.00	0.00
ATOM	1002	HA	LEU	64	-3.786	-3.838	9.433	1.00	0.00
ATOM	1003	CB	LEU	64	-3.169	-2.696	7.726	1.00	0.00
ATOM	1004	HB2	LEU	64	-3.619	-2.030	6.991	1.00	0.00
ATOM	1005	HB3	LEU	64	-2.456	-2.138	8.334	1.00	0.00
ATOM	1006	CG	LEU	64	-2.443	-3.833	7.005	1.00	0.00
ATOM	1007	HG	LEU	64	-3.134	-4.336	6.328	1.00	0.00
ATOM	1008	CD1	LEU	64	-1.271	-3.261	6.204	1.00	0.00
ATOM	1009	HD11	LEU	64	-0.579	-2.759	6.880	1.00	0.00
ATOM	1010	HD12	LEU	64	-0.752	-4.071	5.690	1.00	0.00
ATOM	1011	HD13	LEU	64	-1.645	-2.547	5.471	1.00	0.00
ATOM	1012	CD2	LEU	64	-1.915	-4.836	8.032	1.00	0.00
ATOM	1013	HD21	LEU	64	-2.748	-5.244	8.604	1.00	0.00

ATOM	1014	HD22	LEU	64	-1.398	-5.646	7.517	1.00	0.00
ATOM	1015	HD23	LEU	64	-1.222	-4.335	8.707	1.00	0.00
ATOM	1016	C	LEU	64	-5.088	-2.135	9.224	1.00	0.00
ATOM	1017	O	LEU	64	-4.577	-1.298	9.940	1.00	0.00
ATOM	1018	N	ASN	65	-6.362	-2.091	8.938	1.00	0.00
ATOM	1019	H	ASN	65	-6.798	-2.783	8.346	1.00	0.00
ATOM	1020	CA	ASN	65	-7.212	-0.999	9.495	1.00	0.00
ATOM	1021	HA	ASN	65	-6.587	-0.187	9.867	1.00	0.00
ATOM	1022	CB	ASN	65	-8.124	-0.450	8.396	1.00	0.00
ATOM	1023	HB2	ASN	65	-8.810	-1.226	8.055	1.00	0.00
ATOM	1024	HB3	ASN	65	-8.694	0.401	8.768	1.00	0.00
ATOM	1025	CG	ASN	65	-7.278	0.010	7.210	1.00	0.00
ATOM	1026	OD1	ASN	65	-7.794	-0.003	6.011	1.00	0.00
ATOM	1027	ND2	ASN	65	-6.133	0.385	7.373	1.00	0.00
ATOM	1028	HD21	ASN	65	-5.585	0.686	6.579	1.00	0.00
ATOM	1029	HD22	ASN	65	-5.735	0.393	8.301	1.00	0.00
ATOM	1030	C	ASN	65	-8.071	-1.549	10.636	1.00	0.00
ATOM	1031	O	ASN	65	-8.711	-0.808	11.354	1.00	0.00
ATOM	1032	N	GLU	66	-8.093	-2.843	10.808	1.00	0.00
ATOM	1033	H	GLU	66	-7.564	-3.469	10.217	1.00	0.00
ATOM	1034	CA	GLU	66	-8.917	-3.432	11.903	1.00	0.00
ATOM	1035	HA	GLU	66	-9.092	-2.694	12.685	1.00	0.00



ATOM	1036	CB	GLU	66	-10.268	-3.875	11.338	1.00	0.00
ATOM	1037	HB2	GLU	66	-10.117	-4.696	10.637	1.00	0.00
ATOM	1038	HB3	GLU	66	-10.911	-4.208	12.153	1.00	0.00
ATOM	1039	CG	GLU	66	-10.929	-2.701	10.614	1.00	0.00
ATOM	1040	HG2	GLU	66	-11.185	-1.927	11.337	1.00	0.00
ATOM	1041	HG3	GLU	66	-10.239	-2.294	9.875	1.00	0.00
ATOM	1042	CD	GLU	66	-12.200	-3.184	9.913	1.00	0.00
ATOM	1043	OE1	GLU	66	-12.388	-4.388	9.835	1.00	0.00
ATOM	1044	OE2	GLU	66	-12.963	-2.344	9.466	1.00	0.00
ATOM	1045	C	GLU	66	-8.197	-4.643	12.504	1.00	0.00
ATOM	1046	O	GLU	66	-8.318	-4.927	13.678	1.00	0.00
ATOM	1047	N	MET	67	-7.453	-5.362	11.709	1.00	0.00
ATOM	1048	H	MET	67	-7.345	-5.137	10.730	1.00	0.00
ATOM	1049	CA	MET	67	-6.735	-6.555	12.242	1.00	0.00
ATOM	1050	HA	MET	67	-7.400	-7.148	12.870	1.00	0.00
ATOM	1051	CB	MET	67	-6.259	-7.425	11.077	1.00	0.00
ATOM	1052	HB2	MET	67	-6.429	-6.901	10.137	1.00	0.00
ATOM	1053	HB3	MET	67	-5.195	-7.633	11.189	1.00	0.00
ATOM	1054	CG	MET	67	-7.038	-8.742	11.074	1.00	0.00
ATOM	1055	HG2	MET	67	-7.458	-8.925	12.063	1.00	0.00
ATOM	1056	HG3	MET	67	-7.843	-8.693	10.341	1.00	0.00
ATOM	1057	SD	MET	67	-5.923	-10.100	10.641	1.00	0.00

ATOM	1058	CE	MET	67	-5.813	-9.746	8.870	1.00	0.00
ATOM	1059	HE1	MET	67	-5.405	-8.746	8.723	1.00	0.00
ATOM	1060	HE2	MET	67	-5.160	-10.478	8.393	1.00	0.00
ATOM	1061	HE3	MET	67	-6.806	-9.802	8.425	1.00	0.00
ATOM	1062	C	MET	67	-5.530	-6.103	13.066	1.00	0.00
ATOM	1063	O	MET	67	-5.548	-6.133	14.281	1.00	0.00
ATOM	1064	N	GLU	68	-4.482	-5.687	12.415	1.00	0.00
ATOM	1065	H	GLU	68	-4.461	-5.663	11.405	1.00	0.00
ATOM	1066	CA	GLU	68	-3.272	-5.235	13.157	1.00	0.00
ATOM	1067	HA	GLU	68	-3.066	-5.907	13.991	1.00	0.00
ATOM	1068	CB	GLU	68	-2.066	-5.241	12.216	1.00	0.00
ATOM	1069	HB2	GLU	68	-2.157	-4.423	11.502	1.00	0.00
ATOM	1070	HB3	GLU	68	-1.151	-5.117	12.796	1.00	0.00
ATOM	1071	CG	GLU	68	-2.015	-6.571	11.462	1.00	0.00
ATOM	1072	HG2	GLU	68	-1.810	-7.380	12.164	1.00	0.00
ATOM	1073	HG3	GLU	68	-2.973	-6.749	10.974	1.00	0.00
ATOM	1074	CD	GLU	68	-0.908	-6.519	10.407	1.00	0.00
ATOM	1075	OE1	GLU	68	-0.339	-5.455	10.225	1.00	0.00
ATOM	1076	OE2	GLU	68	-0.647	-7.545	9.799	1.00	0.00
ATOM	1077	C	GLU	68	-3.495	-3.819	13.693	1.00	0.00
ATOM	1078	O	GLU	68	-2.613	-3.221	14.276	1.00	0.00
ATOM	1079	N	ASN	69	-4.667	-3.278	13.502	1.00	0.00

ATOM	1080	H	ASN	69	-5.407	-3.768	13.020	1.00	0.00
ATOM	1081	CA	ASN	69	-4.940	-1.900	14.002	1.00	0.00
ATOM	1082	HA	ASN	69	-5.864	-1.517	13.570	1.00	0.00
ATOM	1083	CB	ASN	69	-5.088	-1.931	15.525	1.00	0.00
ATOM	1084	HB2	ASN	69	-4.154	-2.250	15.989	1.00	0.00
ATOM	1085	HB3	ASN	69	-5.360	-0.944	15.898	1.00	0.00
ATOM	1086	CG	ASN	69	-6.188	-2.920	15.911	1.00	0.00
ATOM	1087	OD1	ASN	69	-7.123	-3.132	15.163	1.00	0.00
ATOM	1088	ND2	ASN	69	-6.117	-3.541	17.057	1.00	0.00
ATOM	1089	HD21	ASN	69	-6.840	-4.196	17.319	1.00	0.00
ATOM	1090	HD22	ASN	69	-5.339	-3.364	17.677	1.00	0.00
ATOM	1091	C	ASN	69	-3.777	-0.982	13.619	1.00	0.00
ATOM	1092	O	ASN	69	-3.520	0.012	14.269	1.00	0.00
ATOM	1093	N	THR	70	-3.074	-1.309	12.571	1.00	0.00
ATOM	1094	H	THR	70	-3.285	-2.135	12.028	1.00	0.00
ATOM	1095	CA	THR	70	-1.926	-0.457	12.145	1.00	0.00
ATOM	1096	HA	THR	70	-1.059	-0.641	12.779	1.00	0.00
ATOM	1097	CB	THR	70	-1.553	-0.791	10.698	1.00	0.00
ATOM	1098	HB	THR	70	-0.544	-0.433	10.492	1.00	0.00
ATOM	1099	CG2	THR	70	-1.608	-2.306	10.490	1.00	0.00
ATOM	1100	HG21	THR	70	-2.616	-2.666	10.696	1.00	0.00
ATOM	1101	HG22	THR	70	-1.342	-2.542	9.459	1.00	0.00

ATOM	1102	HG23	THR	70	-0.904	-2.792	11.166	1.00	0.00
ATOM	1103	OG1	THR	70	-2.467	-0.156	9.815	1.00	0.00
ATOM	1104	HG1	THR	70	-2.233	-0.366	8.908	1.00	0.00
ATOM	1105	C	THR	70	-2.321	1.018	12.242	1.00	0.00
ATOM	1106	O	THR	70	-3.487	1.360	12.249	1.00	0.00
ATOM	1107	N	GLN	71	-1.358	1.897	12.318	1.00	0.00
ATOM	1108	H	GLN	71	-0.386	1.621	12.313	1.00	0.00
ATOM	1109	CA	GLN	71	-1.681	3.349	12.415	1.00	0.00
ATOM	1110	HA	GLN	71	-2.300	3.655	11.572	1.00	0.00
ATOM	1111	CB	GLN	71	-2.451	3.615	13.709	1.00	0.00
ATOM	1112	HB2	GLN	71	-3.391	3.064	13.693	1.00	0.00
ATOM	1113	HB3	GLN	71	-1.854	3.290	14.561	1.00	0.00
ATOM	1114	CG	GLN	71	-2.740	5.114	13.830	1.00	0.00
ATOM	1115	HG2	GLN	71	-1.828	5.688	13.667	1.00	0.00
ATOM	1116	HG3	GLN	71	-3.493	5.414	13.101	1.00	0.00
ATOM	1117	CD	GLN	71	-3.268	5.421	15.234	1.00	0.00
ATOM	1118	OE1	GLN	71	-2.667	5.041	16.219	1.00	0.00
ATOM	1119	NE2	GLN	71	-4.376	6.098	15.366	1.00	0.00
ATOM	1120	HE21	GLN	71	-4.731	6.304	16.289	1.00	0.00
ATOM	1121	HE22	GLN	71	-4.873	6.412	14.545	1.00	0.00
ATOM	1122	C	GLN	71	-0.384	4.162	12.417	1.00	0.00
ATOM	1123	O	GLN	71	-0.328	5.259	11.897	1.00	0.00

ATOM	1124	N	GLY	72	0.658	3.636	13.002	1.00	0.00
ATOM	1125	H	GLY	72	0.620	2.725	13.438	1.00	0.00
ATOM	1126	CA	GLY	72	1.947	4.383	13.038	1.00	0.00
ATOM	1127	HA2	GLY	72	1.789	5.411	12.712	1.00	0.00
ATOM	1128	HA3	GLY	72	2.349	4.380	14.051	1.00	0.00
ATOM	1129	C	GLY	72	2.955	3.713	12.101	1.00	0.00
ATOM	1130	O	GLY	72	2.817	2.558	11.748	1.00	0.00
ATOM	1131	N	CYX	73	3.969	4.428	11.698	1.00	0.00
ATOM	1132	H	CYX	73	4.089	5.388	11.988	1.00	0.00
ATOM	1133	CA	CYX	73	4.985	3.834	10.785	1.00	0.00
ATOM	1134	HA	CYX	73	5.807	4.532	10.628	1.00	0.00
ATOM	1135	CB	CYX	73	5.544	2.553	11.407	1.00	0.00
ATOM	1136	HB2	CYX	73	4.939	2.272	12.269	1.00	0.00
ATOM	1137	HB3	CYX	73	5.520	1.750	10.670	1.00	0.00
ATOM	1138	SG	CYX	73	7.234	2.848	11.986	1.00	0.00
ATOM	1139	C	CYX	73	4.334	3.507	9.438	1.00	0.00
ATOM	1140	O	CYX	73	4.919	2.855	8.596	1.00	0.00
ATOM	1141	N	MET	74	3.127	3.956	9.229	1.00	0.00
ATOM	1142	H	MET	74	2.636	4.499	9.924	1.00	0.00
ATOM	1143	CA	MET	74	2.439	3.671	7.939	1.00	0.00
ATOM	1144	HA	MET	74	2.075	2.643	7.923	1.00	0.00
ATOM	1145	CB	MET	74	1.245	4.616	7.778	1.00	0.00

ATOM	1146	HB2 MET	74	1.602	5.641	7.681	1.00	0.00
ATOM	1147	HB3 MET	74	0.681	4.342	6.886	1.00	0.00
ATOM	1148	CG MET	74	0.341	4.504	9.008	1.00	0.00
ATOM	1149	HG2 MET	74	0.200	3.454	9.267	1.00	0.00
ATOM	1150	HG3 MET	74	0.796	5.027	9.849	1.00	0.00
ATOM	1151	SD MET	74	-1.268	5.249	8.644	1.00	0.00
ATOM	1152	CE MET	74	-2.138	3.719	8.222	1.00	0.00
ATOM	1153	HE1 MET	74	-2.122	3.043	9.078	1.00	0.00
ATOM	1154	HE2 MET	74	-3.170	3.948	7.959	1.00	0.00
ATOM	1155	HE3 MET	74	-1.645	3.242	7.375	1.00	0.00
ATOM	1156	C MET	74	3.420	3.884	6.784	1.00	0.00
ATOM	1157	O MET	74	3.646	3.002	5.979	1.00	0.00
ATOM	1158	N CYX	75	4.006	5.047	6.697	1.00	0.00
ATOM	1159	H CYX	75	3.825	5.786	7.361	1.00	0.00
ATOM	1160	CA CYX	75	4.972	5.310	5.594	1.00	0.00
ATOM	1161	HA CYX	75	4.443	5.433	4.649	1.00	0.00
ATOM	1162	CB CYX	75	5.748	6.595	5.891	1.00	0.00
ATOM	1163	HB2 CYX	75	5.055	7.373	6.209	1.00	0.00
ATOM	1164	HB3 CYX	75	6.472	6.407	6.684	1.00	0.00
ATOM	1165	SG CYX	75	6.570	7.164	4.383	1.00	0.00
ATOM	1166	C CYX	75	5.948	4.139	5.481	1.00	0.00
ATOM	1167	O CYX	75	6.157	3.593	4.415	1.00	0.00

ATOM	1168	N	GLU	76	6.547	3.743	6.572	1.00	0.00
ATOM	1169	H	GLU	76	6.381	4.188	7.463	1.00	0.00
ATOM	1170	CA	GLU	76	7.505	2.603	6.520	1.00	0.00
ATOM	1171	HA	GLU	76	8.348	2.847	5.874	1.00	0.00
ATOM	1172	CB	GLU	76	8.035	2.313	7.926	1.00	0.00
ATOM	1173	HB2	GLU	76	7.208	2.025	8.575	1.00	0.00
ATOM	1174	HB3	GLU	76	8.760	1.500	7.881	1.00	0.00
ATOM	1175	CG	GLU	76	8.709	3.567	8.485	1.00	0.00
ATOM	1176	HG2	GLU	76	9.461	3.919	7.779	1.00	0.00
ATOM	1177	HG3	GLU	76	7.961	4.344	8.638	1.00	0.00
ATOM	1178	CD	GLU	76	9.380	3.236	9.820	1.00	0.00
ATOM	1179	OE1	GLU	76	9.373	2.073	10.192	1.00	0.00
ATOM	1180	OE2	GLU	76	9.888	4.149	10.448	1.00	0.00
ATOM	1181	C	GLU	76	6.784	1.367	5.979	1.00	0.00
ATOM	1182	O	GLU	76	7.400	0.426	5.517	1.00	0.00
ATOM	1183	N	ALA	77	5.479	1.368	6.024	1.00	0.00
ATOM	1184	H	ALA	77	4.961	2.146	6.405	1.00	0.00
ATOM	1185	CA	ALA	77	4.717	0.199	5.505	1.00	0.00
ATOM	1186	HA	ALA	77	5.186	-0.749	5.772	1.00	0.00
ATOM	1187	CB	ALA	77	3.296	0.219	6.073	1.00	0.00
ATOM	1188	HB1	ALA	77	2.811	1.157	5.806	1.00	0.00
ATOM	1189	HB2	ALA	77	2.728	-0.615	5.660	1.00	0.00

ATOM	1190	HB3	ALA	77	3.337	0.127	7.158	1.00	0.00
ATOM	1191	C	ALA	77	4.661	0.278	3.980	1.00	0.00
ATOM	1192	O	ALA	77	5.119	-0.609	3.286	1.00	0.00
ATOM	1193	N	LEU	78	4.111	1.335	3.450	1.00	0.00
ATOM	1194	H	LEU	78	3.729	2.078	4.017	1.00	0.00
ATOM	1195	CA	LEU	78	4.039	1.469	1.969	1.00	0.00
ATOM	1196	HA	LEU	78	3.393	0.696	1.552	1.00	0.00
ATOM	1197	CB	LEU	78	3.463	2.838	1.603	1.00	0.00
ATOM	1198	HB2	LEU	78	2.505	2.975	2.104	1.00	0.00
ATOM	1199	HB3	LEU	78	4.153	3.620	1.920	1.00	0.00
ATOM	1200	CG	LEU	78	3.263	2.918	0.090	1.00	0.00
ATOM	1201	HG	LEU	78	4.173	2.593	-0.415	1.00	0.00
ATOM	1202	CD1	LEU	78	2.101	2.011	-0.320	1.00	0.00
ATOM	1203	HD11	LEU	78	1.191	2.335	0.184	1.00	0.00
ATOM	1204	HD12	LEU	78	1.958	2.068	-1.399	1.00	0.00
ATOM	1205	HD13	LEU	78	2.325	0.982	-0.037	1.00	0.00
ATOM	1206	CD2	LEU	78	2.948	4.361	-0.309	1.00	0.00
ATOM	1207	HD21	LEU	78	3.776	5.007	-0.018	1.00	0.00
ATOM	1208	HD22	LEU	78	2.806	4.417	-1.388	1.00	0.00
ATOM	1209	HD23	LEU	78	2.038	4.687	0.195	1.00	0.00
ATOM	1210	C	LEU	78	5.449	1.336	1.393	1.00	0.00
ATOM	1211	O	LEU	78	5.672	0.636	0.426	1.00	0.00



ATOM	1212	N	GLN	79	6.403	2.001	1.986	1.00	0.00
ATOM	1213	H	GLN	79	6.223	2.584	2.791	1.00	0.00
ATOM	1214	CA	GLN	79	7.799	1.910	1.479	1.00	0.00
ATOM	1215	HA	GLN	79	7.870	2.356	0.487	1.00	0.00
ATOM	1216	CB	GLN	79	8.739	2.665	2.423	1.00	0.00
ATOM	1217	HB2	GLN	79	8.610	2.292	3.439	1.00	0.00
ATOM	1218	HB3	GLN	79	9.771	2.511	2.108	1.00	0.00
ATOM	1219	CG	GLN	79	8.411	4.159	2.382	1.00	0.00
ATOM	1220	HG2	GLN	79	8.582	4.555	1.381	1.00	0.00
ATOM	1221	HG3	GLN	79	7.373	4.327	2.666	1.00	0.00
ATOM	1222	CD	GLN	79	9.315	4.906	3.365	1.00	0.00
ATOM	1223	OE1	GLN	79	9.538	6.180	3.189	1.00	0.00
ATOM	1224	NE2	GLN	79	9.825	4.324	4.302	1.00	0.00
ATOM	1225	HE21	GLN	79	10.420	4.829	4.943	1.00	0.00
ATOM	1226	HE22	GLN	79	9.652	3.337	4.435	1.00	0.00
ATOM	1227	C	GLN	79	8.214	0.442	1.413	1.00	0.00
ATOM	1228	O	GLN	79	8.778	-0.012	0.438	1.00	0.00
ATOM	1229	N	GLN	80	7.931	-0.308	2.442	1.00	0.00
ATOM	1230	H	GLN	80	7.459	0.059	3.255	1.00	0.00
ATOM	1231	CA	GLN	80	8.304	-1.750	2.434	1.00	0.00
ATOM	1232	HA	GLN	80	9.389	-1.859	2.415	1.00	0.00
ATOM	1233	CB	GLN	80	7.767	-2.426	3.697	1.00	0.00

ATOM	1234	HB2	GLN	80	8.091	-1.867	4.575	1.00	0.00
ATOM	1235	HB3	GLN	80	6.678	-2.449	3.663	1.00	0.00
ATOM	1236	CG	GLN	80	8.304	-3.856	3.777	1.00	0.00
ATOM	1237	HG2	GLN	80	7.844	-4.386	4.611	1.00	0.00
ATOM	1238	HG3	GLN	80	8.099	-4.391	2.850	1.00	0.00
ATOM	1239	CD	GLN	80	9.818	-3.821	3.996	1.00	0.00
ATOM	1240	OE1	GLN	80	10.305	-3.094	4.839	1.00	0.00
ATOM	1241	NE2	GLN	80	10.588	-4.581	3.266	1.00	0.00
ATOM	1242	HE21	GLN	80	11.588	-4.564	3.405	1.00	0.00
ATOM	1243	HE22	GLN	80	10.180	-5.184	2.565	1.00	0.00
ATOM	1244	C	GLN	80	7.694	-2.417	1.200	1.00	0.00
ATOM	1245	O	GLN	80	8.359	-3.136	0.480	1.00	0.00
ATOM	1246	N	ILE	81	6.437	-2.178	0.947	1.00	0.00
ATOM	1247	H	ILE	81	5.879	-1.580	1.539	1.00	0.00
ATOM	1248	CA	ILE	81	5.790	-2.793	-0.245	1.00	0.00
ATOM	1249	HA	ILE	81	5.659	-3.862	-0.077	1.00	0.00
ATOM	1250	CB	ILE	81	4.425	-2.142	-0.475	1.00	0.00
ATOM	1251	HB	ILE	81	4.549	-1.064	-0.571	1.00	0.00
ATOM	1252	CG2	ILE	81	3.802	-2.699	-1.756	1.00	0.00
ATOM	1253	HG21	ILE	81	3.678	-3.778	-1.661	1.00	0.00
ATOM	1254	HG22	ILE	81	2.830	-2.235	-1.919	1.00	0.00
ATOM	1255	HG23	ILE	81	4.454	-2.483	-2.602	1.00	0.00

ATOM	1256	CG1	ILE	81	3.506	-2.446	0.710	1.00	0.00
ATOM	1257	HG12	ILE	81	3.464	-3.524	0.869	1.00	0.00
ATOM	1258	HG13	ILE	81	3.896	-1.962	1.605	1.00	0.00
ATOM	1259	CD1	ILE	81	2.100	-1.918	0.416	1.00	0.00
ATOM	1260	HD11	ILE	81	1.710	-2.402	-0.479	1.00	0.00
ATOM	1261	HD12	ILE	81	1.446	-2.135	1.260	1.00	0.00
ATOM	1262	HD13	ILE	81	2.142	-0.841	0.257	1.00	0.00
ATOM	1263	C	ILE	81	6.680	-2.566	-1.467	1.00	0.00
ATOM	1264	O	ILE	81	7.172	-3.499	-2.072	1.00	0.00
ATOM	1265	N	MET	82	6.897	-1.332	-1.832	1.00	0.00
ATOM	1266	H	MET	82	6.493	-0.553	-1.333	1.00	0.00
ATOM	1267	CA	MET	82	7.761	-1.045	-3.010	1.00	0.00
ATOM	1268	HA	MET	82	7.231	-1.275	-3.934	1.00	0.00
ATOM	1269	CB	MET	82	8.135	0.439	-3.017	1.00	0.00
ATOM	1270	HB2	MET	82	8.790	0.653	-2.172	1.00	0.00
ATOM	1271	HB3	MET	82	8.652	0.679	-3.946	1.00	0.00
ATOM	1272	CG	MET	82	6.866	1.286	-2.906	1.00	0.00
ATOM	1273	HG2	MET	82	6.423	1.160	-1.918	1.00	0.00
ATOM	1274	HG3	MET	82	7.109	2.336	-3.064	1.00	0.00
ATOM	1275	SD	MET	82	5.677	0.755	-4.163	1.00	0.00
ATOM	1276	CE	MET	82	6.662	1.211	-5.612	1.00	0.00
ATOM	1277	HE1	MET	82	7.603	0.660	-5.601	1.00	0.00

ATOM	1278	HE2 MET	82	6.110	0.966	-6.519	1.00	0.00
ATOM	1279	HE3 MET	82	6.868	2.281	-5.590	1.00	0.00
ATOM	1280	C MET	82	9.031	-1.890	-2.924	1.00	0.00
ATOM	1281	O MET	82	9.392	-2.585	-3.851	1.00	0.00
ATOM	1282	N GLU	83	9.707	-1.841	-1.812	1.00	0.00
ATOM	1283	H GLU	83	9.411	-1.269	-1.035	1.00	0.00
ATOM	1284	CA GLU	83	10.952	-2.644	-1.663	1.00	0.00
ATOM	1285	HA GLU	83	11.631	-2.448	-2.493	1.00	0.00
ATOM	1286	CB GLU	83	11.653	-2.261	-0.357	1.00	0.00
ATOM	1287	HB2 GLU	83	10.960	-2.379	0.476	1.00	0.00
ATOM	1288	HB3 GLU	83	12.517	-2.908	-0.204	1.00	0.00
ATOM	1289	CG GLU	83	12.114	-0.804	-0.435	1.00	0.00
ATOM	1290	HG2 GLU	83	12.745	-0.668	-1.314	1.00	0.00
ATOM	1291	HG3 GLU	83	11.244	-0.152	-0.508	1.00	0.00
ATOM	1292	CD GLU	83	12.910	-0.453	0.823	1.00	0.00
ATOM	1293	OE1 GLU	83	12.978	-1.286	1.710	1.00	0.00
ATOM	1294	OE2 GLU	83	13.440	0.645	0.877	1.00	0.00
ATOM	1295	C GLU	83	10.592	-4.130	-1.634	1.00	0.00
ATOM	1296	O GLU	83	11.440	-4.988	-1.776	1.00	0.00
ATOM	1297	N ASN	84	9.337	-4.437	-1.455	1.00	0.00
ATOM	1298	H ASN	84	8.629	-3.728	-1.336	1.00	0.00
ATOM	1299	CA ASN	84	8.918	-5.865	-1.421	1.00	0.00

ATOM	1300	HA	ASN	84	9.656	-6.463	-0.885	1.00	0.00
ATOM	1301	CB	ASN	84	7.573	-5.987	-0.701	1.00	0.00
ATOM	1302	HB2	ASN	84	7.616	-5.488	0.267	1.00	0.00
ATOM	1303	HB3	ASN	84	6.780	-5.544	-1.303	1.00	0.00
ATOM	1304	CG	ASN	84	7.248	-7.464	-0.475	1.00	0.00
ATOM	1305	OD1	ASN	84	7.869	-8.118	0.339	1.00	0.00
ATOM	1306	ND2	ASN	84	6.293	-8.023	-1.167	1.00	0.00
ATOM	1307	HD21	ASN	84	6.073	-8.999	-1.023	1.00	0.00
ATOM	1308	HD22	ASN	84	5.778	-7.478	-1.844	1.00	0.00
ATOM	1309	C	ASN	84	8.781	-6.388	-2.852	1.00	0.00
ATOM	1310	O	ASN	84	8.830	-7.578	-3.094	1.00	0.00
ATOM	1311	N	GLN	85	8.608	-5.510	-3.803	1.00	0.00
ATOM	1312	H	GLN	85	8.563	-4.519	-3.613	1.00	0.00
ATOM	1313	CA	GLN	85	8.470	-5.966	-5.215	1.00	0.00
ATOM	1314	HA	GLN	85	9.276	-6.654	-5.472	1.00	0.00
ATOM	1315	CB	GLN	85	7.134	-6.693	-5.387	1.00	0.00
ATOM	1316	HB2	GLN	85	7.014	-7.428	-4.591	1.00	0.00
ATOM	1317	HB3	GLN	85	6.318	-5.972	-5.341	1.00	0.00
ATOM	1318	CG	GLN	85	7.111	-7.402	-6.743	1.00	0.00
ATOM	1319	HG2	GLN	85	7.217	-6.678	-7.551	1.00	0.00
ATOM	1320	HG3	GLN	85	7.919	-8.132	-6.803	1.00	0.00
ATOM	1321	CD	GLN	85	5.778	-8.133	-6.913	1.00	0.00

ATOM	1322	OE1	GLN	85	5.076	-8.373	-5.951	1.00	0.00
ATOM	1323	NE2	GLN	85	5.397	-8.500	-8.106	1.00	0.00
ATOM	1324	HE21	GLN	85	4.518	-8.983	-8.226	1.00	0.00
ATOM	1325	HE22	GLN	85	5.983	-8.300	-8.904	1.00	0.00
ATOM	1326	C	GLN	85	8.516	-4.759	-6.158	1.00	0.00
ATOM	1327	O	GLN	85	7.698	-4.624	-7.045	1.00	0.00
ATOM	1328	N	CYX	86	9.470	-3.884	-5.979	1.00	0.00
ATOM	1329	H	CYX	86	10.157	-3.986	-5.245	1.00	0.00
ATOM	1330	CA	CYX	86	9.563	-2.695	-6.875	1.00	0.00
ATOM	1331	HA	CYX	86	8.581	-2.452	-7.281	1.00	0.00
ATOM	1332	CB	CYX	86	10.076	-1.491	-6.082	1.00	0.00
ATOM	1333	HB2	CYX	86	10.280	-0.666	-6.765	1.00	0.00
ATOM	1334	HB3	CYX	86	9.322	-1.185	-5.358	1.00	0.00
ATOM	1335	SG	CYX	86	11.628	-1.925	-5.258	1.00	0.00
ATOM	1336	C	CYX	86	10.529	-2.997	-8.021	1.00	0.00
ATOM	1337	O	CYX	86	10.642	-2.242	-8.966	1.00	0.00
ATOM	1338	N	ASP	87	11.231	-4.096	-7.944	1.00	0.00
ATOM	1339	H	ASP	87	11.144	-4.728	-7.161	1.00	0.00
ATOM	1340	CA	ASP	87	12.190	-4.445	-9.029	1.00	0.00
ATOM	1341	HA	ASP	87	13.078	-3.815	-8.967	1.00	0.00
ATOM	1342	CB	ASP	87	12.617	-5.907	-8.880	1.00	0.00
ATOM	1343	HB2	ASP	87	11.746	-6.519	-8.644	1.00	0.00

ATOM	1344	HB3	ASP	87	13.061	-6.253	-9.814	1.00	0.00
ATOM	1345	CG	ASP	87	13.644	-6.027	-7.752	1.00	0.00
ATOM	1346	OD1	ASP	87	14.077	-4.998	-7.259	1.00	0.00
ATOM	1347	OD2	ASP	87	13.980	-7.145	-7.400	1.00	0.00
ATOM	1348	C	ASP	87	11.518	-4.247	-10.389	1.00	0.00
ATOM	1349	O	ASP	87	12.076	-3.647	-11.287	1.00	0.00
ATOM	1350	N	ARG	88	10.324	-4.749	-10.550	1.00	0.00
ATOM	1351	H	ARG	88	9.855	-5.250	-9.809	1.00	0.00
ATOM	1352	CA	ARG	88	9.619	-4.591	-11.853	1.00	0.00
ATOM	1353	HA	ARG	88	10.222	-5.005	-12.662	1.00	0.00
ATOM	1354	CB	ARG	88	8.285	-5.340	-11.805	1.00	0.00
ATOM	1355	HB2	ARG	88	7.700	-4.987	-10.956	1.00	0.00
ATOM	1356	HB3	ARG	88	7.733	-5.159	-12.727	1.00	0.00
ATOM	1357	CG	ARG	88	8.547	-6.840	-11.654	1.00	0.00
ATOM	1358	HG2	ARG	88	9.137	-7.193	-12.500	1.00	0.00
ATOM	1359	HG3	ARG	88	9.094	-7.022	-10.729	1.00	0.00
ATOM	1360	CD	ARG	88	7.215	-7.590	-11.614	1.00	0.00
ATOM	1361	HD2	ARG	88	6.554	-7.145	-10.871	1.00	0.00
ATOM	1362	HD3	ARG	88	6.735	-7.558	-12.592	1.00	0.00
ATOM	1363	NE	ARG	88	7.455	-9.013	-11.247	1.00	0.00
ATOM	1364	HE	ARG	88	7.167	-9.384	-10.352	1.00	0.00
ATOM	1365	CZ	ARG	88	8.049	-9.814	-12.091	1.00	0.00

ATOM	1366	NH1	ARG	88	7.342	-10.625	-12.828	1.00	0.00
ATOM	1367	HH11	ARG	88	6.336	-10.632	-12.744	1.00	0.00
ATOM	1368	HH12	ARG	88	7.804	-11.243	-13.480	1.00	0.00
ATOM	1369	NH2	ARG	88	9.350	-9.801	-12.197	1.00	0.00
ATOM	1370	HH21	ARG	88	9.894	-9.171	-11.625	1.00	0.00
ATOM	1371	HH22	ARG	88	9.807	-10.422	-12.850	1.00	0.00
ATOM	1372	C	ARG	88	9.360	-3.106	-12.121	1.00	0.00
ATOM	1373	O	ARG	88	9.004	-2.717	-13.215	1.00	0.00
ATOM	1374	N	LEU	89	9.539	-2.275	-11.132	1.00	0.00
ATOM	1375	H	LEU	89	9.835	-2.591	-10.219	1.00	0.00
ATOM	1376	CA	LEU	89	9.304	-0.817	-11.334	1.00	0.00
ATOM	1377	HA	LEU	89	8.277	-0.641	-11.652	1.00	0.00
ATOM	1378	CB	LEU	89	9.544	-0.072	-10.019	1.00	0.00
ATOM	1379	HB2	LEU	89	9.057	-0.606	-9.203	1.00	0.00
ATOM	1380	HB3	LEU	89	10.615	-0.013	-9.826	1.00	0.00
ATOM	1381	CG	LEU	89	8.966	1.340	-10.121	1.00	0.00
ATOM	1382	HG	LEU	89	9.380	1.840	-10.997	1.00	0.00
ATOM	1383	CD1	LEU	89	7.444	1.259	-10.252	1.00	0.00
ATOM	1384	HD11	LEU	89	7.030	0.759	-9.377	1.00	0.00
ATOM	1385	HD12	LEU	89	7.031	2.265	-10.325	1.00	0.00
ATOM	1386	HD13	LEU	89	7.186	0.695	-11.148	1.00	0.00
ATOM	1387	CD2	LEU	89	9.325	2.133	-8.864	1.00	0.00



ATOM	1388	HD21	LEU	89	10.409	2.191	-8.768	1.00	0.00
ATOM	1389	HD22	LEU	89	8.913	3.139	-8.938	1.00	0.00
ATOM	1390	HD23	LEU	89	8.910	1.634	-7.988	1.00	0.00
ATOM	1391	C	LEU	89	10.264	-0.288	-12.402	1.00	0.00
ATOM	1392	O	LEU	89	10.081	0.787	-12.937	1.00	0.00
ATOM	1393	N	GLN	90	11.287	-1.036	-12.715	1.00	0.00
ATOM	1394	H	GLN	90	11.446	-1.932	-12.275	1.00	0.00
ATOM	1395	CA	GLN	90	12.257	-0.575	-13.748	1.00	0.00
ATOM	1396	HA	GLN	90	12.900	0.206	-13.342	1.00	0.00
ATOM	1397	CB	GLN	90	13.133	-1.751	-14.185	1.00	0.00
ATOM	1398	HB2	GLN	90	12.505	-2.620	-14.382	1.00	0.00
ATOM	1399	HB3	GLN	90	13.676	-1.484	-15.092	1.00	0.00
ATOM	1400	CG	GLN	90	14.131	-2.085	-13.073	1.00	0.00
ATOM	1401	HG2	GLN	90	14.703	-1.198	-12.800	1.00	0.00
ATOM	1402	HG3	GLN	90	13.609	-2.465	-12.195	1.00	0.00
ATOM	1403	CD	GLN	90	15.102	-3.159	-13.567	1.00	0.00
ATOM	1404	OE1	GLN	90	14.877	-3.773	-14.591	1.00	0.00
ATOM	1405	NE2	GLN	90	16.179	-3.415	-12.876	1.00	0.00
ATOM	1406	HE21	GLN	90	16.825	-4.123	-13.196	1.00	0.00
ATOM	1407	HE22	GLN	90	16.362	-2.905	-12.024	1.00	0.00
ATOM	1408	C	GLN	90	11.495	-0.032	-14.957	1.00	0.00
ATOM	1409	O	GLN	90	11.993	0.789	-15.701	1.00	0.00

ATOM	1410	N	ASP	91	10.287	-0.484	-15.161	1.00	0.00
ATOM	1411	H	ASP	91	9.866	-1.166	-14.546	1.00	0.00
ATOM	1412	CA	ASP	91	9.493	0.005	-16.322	1.00	0.00
ATOM	1413	HA	ASP	91	10.052	-0.133	-17.248	1.00	0.00
ATOM	1414	CB	ASP	91	8.188	-0.786	-16.417	1.00	0.00
ATOM	1415	HB2	ASP	91	7.655	-0.723	-15.468	1.00	0.00
ATOM	1416	HB3	ASP	91	7.567	-0.370	-17.210	1.00	0.00
ATOM	1417	CG	ASP	91	8.500	-2.250	-16.729	1.00	0.00
ATOM	1418	OD1	ASP	91	9.630	-2.529	-17.096	1.00	0.00
ATOM	1419	OD2	ASP	91	7.605	-3.069	-16.597	1.00	0.00
ATOM	1420	C	ASP	91	9.176	1.490	-16.133	1.00	0.00
ATOM	1421	O	ASP	91	8.906	1.944	-15.038	1.00	0.00
ATOM	1422	N	ARG	92	9.209	2.253	-17.192	1.00	0.00
ATOM	1423	H	ARG	92	9.435	1.884	-18.105	1.00	0.00
ATOM	1424	CA	ARG	92	8.910	3.708	-17.072	1.00	0.00
ATOM	1425	HA	ARG	92	9.486	4.145	-16.256	1.00	0.00
ATOM	1426	CB	ARG	92	9.289	4.417	-18.373	1.00	0.00
ATOM	1427	HB2	ARG	92	10.365	4.338	-18.529	1.00	0.00
ATOM	1428	HB3	ARG	92	8.767	3.948	-19.207	1.00	0.00
ATOM	1429	CG	ARG	92	8.893	5.891	-18.287	1.00	0.00
ATOM	1430	HG2	ARG	92	7.850	5.969	-17.981	1.00	0.00
ATOM	1431	HG3	ARG	92	9.525	6.395	-17.556	1.00	0.00

ATOM	1432	CD	ARG	92	9.073	6.549	-19.656	1.00	0.00
ATOM	1433	HD2	ARG	92	8.361	6.135	-20.370	1.00	0.00
ATOM	1434	HD3	ARG	92	8.925	7.626	-19.579	1.00	0.00
ATOM	1435	NE	ARG	92	10.453	6.291	-20.154	1.00	0.00
ATOM	1436	HE	ARG	92	11.051	5.602	-19.719	1.00	0.00
ATOM	1437	CZ	ARG	92	10.914	6.959	-21.175	1.00	0.00
ATOM	1438	NH1	ARG	92	10.649	8.231	-21.295	1.00	0.00
ATOM	1439	HH11	ARG	92	10.087	8.694	-20.596	1.00	0.00
ATOM	1440	HH12	ARG	92	11.008	8.745	-22.087	1.00	0.00
ATOM	1441	NH2	ARG	92	11.642	6.356	-22.075	1.00	0.00
ATOM	1442	HH21	ARG	92	11.847	5.371	-21.978	1.00	0.00
ATOM	1443	HH22	ARG	92	11.998	6.876	-22.864	1.00	0.00
ATOM	1444	C	ARG	92	7.416	3.901	-16.803	1.00	0.00
ATOM	1445	O	ARG	92	6.983	4.951	-16.370	1.00	0.00
ATOM	1446	N	GLN	93	6.623	2.897	-17.057	1.00	0.00
ATOM	1447	H	GLN	93	6.975	2.021	-17.418	1.00	0.00
ATOM	1448	CA	GLN	93	5.159	3.024	-16.817	1.00	0.00
ATOM	1449	HA	GLN	93	4.802	3.995	-17.157	1.00	0.00
ATOM	1450	CB	GLN	93	4.420	1.931	-17.595	1.00	0.00
ATOM	1451	HB2	GLN	93	4.780	1.910	-18.624	1.00	0.00
ATOM	1452	HB3	GLN	93	4.604	0.963	-17.127	1.00	0.00
ATOM	1453	CG	GLN	93	2.918	2.225	-17.586	1.00	0.00

ATOM	1454	HG2	GLN	93	2.520	2.135	-16.575	1.00	0.00
ATOM	1455	HG3	GLN	93	2.728	3.229	-17.963	1.00	0.00
ATOM	1456	CD	GLN	93	2.197	1.220	-18.487	1.00	0.00
ATOM	1457	OE1	GLN	93	2.826	0.482	-19.219	1.00	0.00
ATOM	1458	NE2	GLN	93	0.894	1.159	-18.463	1.00	0.00
ATOM	1459	HE21	GLN	93	0.412	0.498	-19.055	1.00	0.00
ATOM	1460	HE22	GLN	93	0.374	1.773	-17.853	1.00	0.00
ATOM	1461	C	GLN	93	4.868	2.872	-15.322	1.00	0.00
ATOM	1462	O	GLN	93	4.192	3.688	-14.727	1.00	0.00
ATOM	1463	N	MET	94	5.372	1.835	-14.711	1.00	0.00
ATOM	1464	H	MET	94	5.937	1.154	-15.199	1.00	0.00
ATOM	1465	CA	MET	94	5.122	1.632	-13.256	1.00	0.00
ATOM	1466	HA	MET	94	4.057	1.488	-13.072	1.00	0.00
ATOM	1467	CB	MET	94	5.872	0.389	-12.776	1.00	0.00
ATOM	1468	HB2	MET	94	6.901	0.424	-13.136	1.00	0.00
ATOM	1469	HB3	MET	94	5.870	0.362	-11.686	1.00	0.00
ATOM	1470	CG	MET	94	5.186	-0.866	-13.318	1.00	0.00
ATOM	1471	HG2	MET	94	4.866	-0.696	-14.346	1.00	0.00
ATOM	1472	HG3	MET	94	5.880	-1.707	-13.289	1.00	0.00
ATOM	1473	SD	MET	94	3.740	-1.252	-12.300	1.00	0.00
ATOM	1474	CE	MET	94	4.589	-1.311	-10.702	1.00	0.00
ATOM	1475	HE1	MET	94	5.053	-0.346	-10.500	1.00	0.00

ATOM	1476	HE2	MET	94	3.870	-1.540	-9.916	1.00	0.00
ATOM	1477	HE3	MET	94	5.357	-2.084	-10.726	1.00	0.00
ATOM	1478	C	MET	94	5.615	2.853	-12.475	1.00	0.00
ATOM	1479	O	MET	94	4.985	3.297	-11.537	1.00	0.00
ATOM	1480	N	VAL	95	6.743	3.393	-12.851	1.00	0.00
ATOM	1481	H	VAL	95	7.274	3.024	-13.627	1.00	0.00
ATOM	1482	CA	VAL	95	7.282	4.581	-12.127	1.00	0.00
ATOM	1483	HA	VAL	95	7.779	4.269	-11.208	1.00	0.00
ATOM	1484	CB	VAL	95	8.300	5.300	-13.014	1.00	0.00
ATOM	1485	HB	VAL	95	7.845	5.531	-13.977	1.00	0.00
ATOM	1486	CG1	VAL	95	8.742	6.597	-12.335	1.00	0.00
ATOM	1487	HG11	VAL	95	9.198	6.366	-11.372	1.00	0.00
ATOM	1488	HG12	VAL	95	9.468	7.109	-12.967	1.00	0.00
ATOM	1489	HG13	VAL	95	7.876	7.240	-12.181	1.00	0.00
ATOM	1490	CG2	VAL	95	9.517	4.397	-13.228	1.00	0.00
ATOM	1491	HG21	VAL	95	9.203	3.471	-13.712	1.00	0.00
ATOM	1492	HG22	VAL	95	10.243	4.908	-13.860	1.00	0.00
ATOM	1493	HG23	VAL	95	9.973	4.166	-12.265	1.00	0.00
ATOM	1494	C	VAL	95	6.140	5.540	-11.780	1.00	0.00
ATOM	1495	O	VAL	95	5.513	5.423	-10.746	1.00	0.00
ATOM	1496	N	GLN	96	5.868	6.488	-12.633	1.00	0.00
ATOM	1497	H	GLN	96	6.387	6.594	-13.493	1.00	0.00

ATOM	1498	CA	GLN	96	4.769	7.453	-12.347	1.00	0.00
ATOM	1499	HA	GLN	96	5.008	8.047	-11.465	1.00	0.00
ATOM	1500	CB	GLN	96	4.594	8.396	-13.540	1.00	0.00
ATOM	1501	HB2	GLN	96	4.310	7.819	-14.420	1.00	0.00
ATOM	1502	HB3	GLN	96	3.815	9.124	-13.316	1.00	0.00
ATOM	1503	CG	GLN	96	5.911	9.125	-13.812	1.00	0.00
ATOM	1504	HG2	GLN	96	6.248	9.649	-12.917	1.00	0.00
ATOM	1505	HG3	GLN	96	6.677	8.415	-14.126	1.00	0.00
ATOM	1506	CD	GLN	96	5.705	10.149	-14.930	1.00	0.00
ATOM	1507	OE1	GLN	96	4.985	11.114	-14.762	1.00	0.00
ATOM	1508	NE2	GLN	96	6.313	9.981	-16.073	1.00	0.00
ATOM	1509	HE21	GLN	96	6.182	10.653	-16.815	1.00	0.00
ATOM	1510	HE22	GLN	96	6.912	9.179	-16.210	1.00	0.00
ATOM	1511	C	GLN	96	3.468	6.691	-12.103	1.00	0.00
ATOM	1512	O	GLN	96	2.828	6.842	-11.081	1.00	0.00
ATOM	1513	N	GLN	97	3.072	5.874	-13.035	1.00	0.00
ATOM	1514	H	GLN	97	3.599	5.749	-13.887	1.00	0.00
ATOM	1515	CA	GLN	97	1.812	5.098	-12.864	1.00	0.00
ATOM	1516	HA	GLN	97	0.947	5.743	-13.014	1.00	0.00
ATOM	1517	CB	GLN	97	1.766	3.970	-13.897	1.00	0.00
ATOM	1518	HB2	GLN	97	2.092	4.349	-14.866	1.00	0.00
ATOM	1519	HB3	GLN	97	2.427	3.161	-13.584	1.00	0.00

ATOM	1520	CG	GLN	97	0.334	3.443	-14.011	1.00	0.00
ATOM	1521	HG2	GLN	97	0.298	2.584	-14.682	1.00	0.00
ATOM	1522	HG3	GLN	97	-0.040	3.152	-13.029	1.00	0.00
ATOM	1523	CD	GLN	97	-0.570	4.541	-14.573	1.00	0.00
ATOM	1524	OE1	GLN	97	-0.448	4.917	-15.722	1.00	0.00
ATOM	1525	NE2	GLN	97	-1.481	5.074	-13.805	1.00	0.00
ATOM	1526	HE21	GLN	97	-2.082	5.799	-14.169	1.00	0.00
ATOM	1527	HE22	GLN	97	-1.580	4.758	-12.851	1.00	0.00
ATOM	1528	C	GLN	97	1.761	4.506	-11.454	1.00	0.00
ATOM	1529	O	GLN	97	0.963	4.908	-10.630	1.00	0.00
ATOM	1530	N	PHE	98	2.608	3.555	-11.168	1.00	0.00
ATOM	1531	H	PHE	98	3.275	3.209	-11.843	1.00	0.00
ATOM	1532	CA	PHE	98	2.600	2.946	-9.807	1.00	0.00
ATOM	1533	HA	PHE	98	1.678	2.385	-9.655	1.00	0.00
ATOM	1534	CB	PHE	98	3.786	1.989	-9.651	1.00	0.00
ATOM	1535	HB2	PHE	98	3.833	1.259	-10.460	1.00	0.00
ATOM	1536	HB3	PHE	98	4.737	2.518	-9.585	1.00	0.00
ATOM	1537	CG	PHE	98	3.638	1.202	-8.366	1.00	0.00
ATOM	1538	CD1	PHE	98	2.438	1.250	-7.641	1.00	0.00
ATOM	1539	HD1	PHE	98	1.608	1.855	-8.004	1.00	0.00
ATOM	1540	CE1	PHE	98	2.307	0.522	-6.454	1.00	0.00
ATOM	1541	HE1	PHE	98	1.373	0.560	-5.893	1.00	0.00

ATOM	1542	CZ	PHE	98	3.372	-0.255	-5.986	1.00	0.00
ATOM	1543	HZ	PHE	98	3.269	-0.822	-5.060	1.00	0.00
ATOM	1544	CE2	PHE	98	4.571	-0.305	-6.707	1.00	0.00
ATOM	1545	HE2	PHE	98	5.401	-0.911	-6.343	1.00	0.00
ATOM	1546	CD2	PHE	98	4.704	0.423	-7.896	1.00	0.00
ATOM	1547	HD2	PHE	98	5.638	0.384	-8.457	1.00	0.00
ATOM	1548	C	PHE	98	2.699	4.055	-8.761	1.00	0.00
ATOM	1549	O	PHE	98	2.069	4.003	-7.724	1.00	0.00
ATOM	1550	N	LYS	99	3.484	5.061	-9.029	1.00	0.00
ATOM	1551	H	LYS	99	4.010	5.109	-9.890	1.00	0.00
ATOM	1552	CA	LYS	99	3.621	6.178	-8.054	1.00	0.00
ATOM	1553	HA	LYS	99	3.915	5.792	-7.078	1.00	0.00
ATOM	1554	CB	LYS	99	4.696	7.152	-8.538	1.00	0.00
ATOM	1555	HB2	LYS	99	5.609	6.602	-8.766	1.00	0.00
ATOM	1556	HB3	LYS	99	4.347	7.662	-9.436	1.00	0.00
ATOM	1557	CG	LYS	99	4.981	8.183	-7.443	1.00	0.00
ATOM	1558	HG2	LYS	99	4.054	8.684	-7.164	1.00	0.00
ATOM	1559	HG3	LYS	99	5.400	7.681	-6.570	1.00	0.00
ATOM	1560	CD	LYS	99	5.981	9.216	-7.966	1.00	0.00
ATOM	1561	HD2	LYS	99	6.928	8.725	-8.190	1.00	0.00
ATOM	1562	HD3	LYS	99	5.588	9.676	-8.872	1.00	0.00
ATOM	1563	CE	LYS	99	6.204	10.293	-6.902	1.00	0.00



ATOM	1564	HE2	LYS	99	6.024	11.276	-7.336	1.00	0.00
ATOM	1565	HE3	LYS	99	5.517	10.131	-6.071	1.00	0.00
ATOM	1566	NZ	LYS	99	7.607	10.219	-6.407	1.00	0.00
ATOM	1567	HZ1	LYS	99	8.244	10.369	-7.177	1.00	0.00
ATOM	1568	HZ2	LYS	99	7.754	10.929	-5.705	1.00	0.00
ATOM	1569	HZ3	LYS	99	7.775	9.308	-6.004	1.00	0.00
ATOM	1570	C	LYS	99	2.283	6.910	-7.939	1.00	0.00
ATOM	1571	O	LYS	99	1.919	7.400	-6.889	1.00	0.00
ATOM	1572	N	ARG	100	1.546	6.981	-9.012	1.00	0.00
ATOM	1573	H	ARG	100	1.844	6.575	-9.888	1.00	0.00
ATOM	1574	CA	ARG	100	0.228	7.673	-8.966	1.00	0.00
ATOM	1575	HA	ARG	100	0.340	8.669	-8.538	1.00	0.00
ATOM	1576	CB	ARG	100	-0.330	7.810	-10.384	1.00	0.00
ATOM	1577	HB2	ARG	100	-0.148	6.889	-10.938	1.00	0.00
ATOM	1578	HB3	ARG	100	-1.402	7.999	-10.337	1.00	0.00
ATOM	1579	CG	ARG	100	0.363	8.976	-11.092	1.00	0.00
ATOM	1580	HG2	ARG	100	0.216	9.889	-10.516	1.00	0.00
ATOM	1581	HG3	ARG	100	1.430	8.767	-11.176	1.00	0.00
ATOM	1582	CD	ARG	100	-0.234	9.153	-12.490	1.00	0.00
ATOM	1583	HD2	ARG	100	-0.327	8.186	-12.986	1.00	0.00
ATOM	1584	HD3	ARG	100	-1.215	9.623	-12.425	1.00	0.00
ATOM	1585	NE	ARG	100	0.660	10.024	-13.305	1.00	0.00

ATOM	1586	HE	ARG	100	1.566	9.705	-13.618	1.00	0.00
ATOM	1587	CZ	ARG	100	0.278	11.228	-13.630	1.00	0.00
ATOM	1588	NH1	ARG	100	0.904	12.265	-13.144	1.00	0.00
ATOM	1589	HH11	ARG	100	1.684	12.131	-12.516	1.00	0.00
ATOM	1590	HH12	ARG	100	0.606	13.195	-13.398	1.00	0.00
ATOM	1591	NH2	ARG	100	-0.730	11.396	-14.441	1.00	0.00
ATOM	1592	HH21	ARG	100	-1.212	10.591	-14.816	1.00	0.00
ATOM	1593	HH22	ARG	100	-1.023	12.329	-14.691	1.00	0.00
ATOM	1594	C	ARG	100	-0.736	6.851	-8.112	1.00	0.00
ATOM	1595	O	ARG	100	-1.337	7.350	-7.181	1.00	0.00
ATOM	1596	N	GLU	101	-0.880	5.588	-8.411	1.00	0.00
ATOM	1597	H	GLU	101	-0.381	5.162	-9.179	1.00	0.00
ATOM	1598	CA	GLU	101	-1.795	4.734	-7.605	1.00	0.00
ATOM	1599	HA	GLU	101	-2.809	5.130	-7.640	1.00	0.00
ATOM	1600	CB	GLU	101	-1.805	3.314	-8.174	1.00	0.00
ATOM	1601	HB2	GLU	101	-0.784	2.934	-8.221	1.00	0.00
ATOM	1602	HB3	GLU	101	-2.402	2.669	-7.530	1.00	0.00
ATOM	1603	CG	GLU	101	-2.408	3.329	-9.580	1.00	0.00
ATOM	1604	HG2	GLU	101	-1.737	3.857	-10.257	1.00	0.00
ATOM	1605	HG3	GLU	101	-2.544	2.305	-9.930	1.00	0.00
ATOM	1606	CD	GLU	101	-3.762	4.041	-9.546	1.00	0.00
ATOM	1607	OE1	GLU	101	-4.472	3.877	-8.568	1.00	0.00

ATOM	1608	OE2	GLU	101	-4.067	4.738	-10.501	1.00	0.00
ATOM	1609	C	GLU	101	-1.293	4.703	-6.163	1.00	0.00
ATOM	1610	O	GLU	101	-2.062	4.719	-5.222	1.00	0.00
ATOM	1611	N	LEU	102	0.000	4.660	-5.984	1.00	0.00
ATOM	1612	H	LEU	102	0.642	4.644	-6.764	1.00	0.00
ATOM	1613	CA	LEU	102	0.563	4.631	-4.607	1.00	0.00
ATOM	1614	HA	LEU	102	0.260	3.719	-4.093	1.00	0.00
ATOM	1615	CB	LEU	102	2.091	4.665	-4.682	1.00	0.00
ATOM	1616	HB2	LEU	102	2.404	4.607	-5.725	1.00	0.00
ATOM	1617	HB3	LEU	102	2.454	5.595	-4.246	1.00	0.00
ATOM	1618	CG	LEU	102	2.673	3.478	-3.908	1.00	0.00
ATOM	1619	HG	LEU	102	2.590	3.667	-2.838	1.00	0.00
ATOM	1620	CD1	LEU	102	1.902	2.204	-4.262	1.00	0.00
ATOM	1621	HD11	LEU	102	1.986	2.013	-5.332	1.00	0.00
ATOM	1622	HD12	LEU	102	2.319	1.361	-3.710	1.00	0.00
ATOM	1623	HD13	LEU	102	0.852	2.328	-3.997	1.00	0.00
ATOM	1624	CD2	LEU	102	4.146	3.301	-4.282	1.00	0.00
ATOM	1625	HD21	LEU	102	4.697	4.206	-4.028	1.00	0.00
ATOM	1626	HD22	LEU	102	4.562	2.456	-3.732	1.00	0.00
ATOM	1627	HD23	LEU	102	4.230	3.113	-5.353	1.00	0.00
ATOM	1628	C	LEU	102	0.062	5.846	-3.825	1.00	0.00
ATOM	1629	O	LEU	102	-0.227	5.762	-2.650	1.00	0.00

ATOM	1630	N	MET	103	-0.050	6.976	-4.470	1.00	0.00
ATOM	1631	H	MET	103	0.184	7.057	-5.449	1.00	0.00
ATOM	1632	CA	MET	103	-0.539	8.189	-3.757	1.00	0.00
ATOM	1633	HA	MET	103	0.094	8.401	-2.895	1.00	0.00
ATOM	1634	CB	MET	103	-0.497	9.391	-4.702	1.00	0.00
ATOM	1635	HB2	MET	103	-0.949	9.120	-5.656	1.00	0.00
ATOM	1636	HB3	MET	103	-1.049	10.220	-4.261	1.00	0.00
ATOM	1637	CG	MET	103	0.958	9.810	-4.928	1.00	0.00
ATOM	1638	HG2	MET	103	1.437	10.011	-3.970	1.00	0.00
ATOM	1639	HG3	MET	103	1.496	9.013	-5.442	1.00	0.00
ATOM	1640	SD	MET	103	1.003	11.309	-5.942	1.00	0.00
ATOM	1641	CE	MET	103	0.744	12.497	-4.603	1.00	0.00
ATOM	1642	HE1	MET	103	1.550	12.405	-3.874	1.00	0.00
ATOM	1643	HE2	MET	103	0.737	13.508	-5.010	1.00	0.00
ATOM	1644	HE3	MET	103	-0.210	12.294	-4.116	1.00	0.00
ATOM	1645	C	MET	103	-1.978	7.951	-3.297	1.00	0.00
ATOM	1646	O	MET	103	-2.407	8.454	-2.278	1.00	0.00
ATOM	1647	N	SER	104	-2.725	7.181	-4.041	1.00	0.00
ATOM	1648	H	SER	104	-2.372	6.759	-4.888	1.00	0.00
ATOM	1649	CA	SER	104	-4.134	6.904	-3.649	1.00	0.00
ATOM	1650	HA	SER	104	-4.598	7.803	-3.246	1.00	0.00
ATOM	1651	CB	SER	104	-4.926	6.454	-4.878	1.00	0.00

ATOM	1652	HB2	SER	104	-5.967	6.291	-4.601	1.00	0.00
ATOM	1653	HB3	SER	104	-4.871	7.223	-5.648	1.00	0.00
ATOM	1654	OG	SER	104	-4.375	5.244	-5.378	1.00	0.00
ATOM	1655	HG	SER	104	-4.871	4.961	-6.149	1.00	0.00
ATOM	1656	C	SER	104	-4.158	5.797	-2.593	1.00	0.00
ATOM	1657	O	SER	104	-5.016	5.763	-1.734	1.00	0.00
ATOM	1658	N	LEU	105	-3.224	4.887	-2.654	1.00	0.00
ATOM	1659	H	LEU	105	-2.513	4.907	-3.371	1.00	0.00
ATOM	1660	CA	LEU	105	-3.192	3.779	-1.659	1.00	0.00
ATOM	1661	HA	LEU	105	-3.940	3.026	-1.908	1.00	0.00
ATOM	1662	CB	LEU	105	-1.811	3.118	-1.671	1.00	0.00
ATOM	1663	HB2	LEU	105	-1.149	3.682	-2.328	1.00	0.00
ATOM	1664	HB3	LEU	105	-1.401	3.112	-0.661	1.00	0.00
ATOM	1665	CG	LEU	105	-1.931	1.679	-2.181	1.00	0.00
ATOM	1666	HG	LEU	105	-0.993	1.152	-2.004	1.00	0.00
ATOM	1667	CD1	LEU	105	-3.065	0.963	-1.443	1.00	0.00
ATOM	1668	HD11	LEU	105	-4.003	1.488	-1.621	1.00	0.00
ATOM	1669	HD12	LEU	105	-3.147	-0.061	-1.808	1.00	0.00
ATOM	1670	HD13	LEU	105	-2.852	0.950	-0.374	1.00	0.00
ATOM	1671	CD2	LEU	105	-2.227	1.693	-3.681	1.00	0.00
ATOM	1672	HD21	LEU	105	-1.417	2.198	-4.207	1.00	0.00
ATOM	1673	HD22	LEU	105	-2.312	0.669	-4.045	1.00	0.00

ATOM	1674	HD23	LEU	105	-3.163	2.221	-3.862	1.00	0.00
ATOM	1675	C	LEU	105	-3.484	4.324	-0.259	1.00	0.00
ATOM	1676	O	LEU	105	-4.327	3.809	0.448	1.00	0.00
ATOM	1677	N	PRO	106	-2.776	5.390	0.152	1.00	0.00
ATOM	1678	CD	PRO	106	-1.740	6.088	-0.630	1.00	0.00
ATOM	1679	HD2	PRO	106	-2.090	6.241	-1.651	1.00	0.00
ATOM	1680	HD3	PRO	106	-0.827	5.492	-0.646	1.00	0.00
ATOM	1681	CG	PRO	106	-1.569	7.378	0.122	1.00	0.00
ATOM	1682	HG2	PRO	106	-2.256	8.126	-0.274	1.00	0.00
ATOM	1683	HG3	PRO	106	-0.544	7.732	0.012	1.00	0.00
ATOM	1684	CB	PRO	106	-1.872	7.060	1.545	1.00	0.00
ATOM	1685	HB2	PRO	106	-2.258	7.962	2.019	1.00	0.00
ATOM	1686	HB3	PRO	106	-1.027	6.680	2.121	1.00	0.00
ATOM	1687	CA	PRO	106	-2.971	6.000	1.471	1.00	0.00
ATOM	1688	HA	PRO	106	-2.873	5.225	2.231	1.00	0.00
ATOM	1689	C	PRO	106	-4.350	6.649	1.581	1.00	0.00
ATOM	1690	O	PRO	106	-4.755	7.108	2.631	1.00	0.00
ATOM	1691	N	GLN	107	-5.079	6.679	0.500	1.00	0.00
ATOM	1692	H	GLN	107	-4.742	6.297	-0.373	1.00	0.00
ATOM	1693	CA	GLN	107	-6.437	7.283	0.528	1.00	0.00
ATOM	1694	HA	GLN	107	-6.537	7.945	1.388	1.00	0.00
ATOM	1695	CB	GLN	107	-6.663	8.099	-0.746	1.00	0.00

ATOM	1696	HB2	GLN	107	-5.880	8.851	-0.840	1.00	0.00
ATOM	1697	HB3	GLN	107	-6.635	7.437	-1.612	1.00	0.00
ATOM	1698	CG	GLN	107	-8.027	8.789	-0.675	1.00	0.00
ATOM	1699	HG2	GLN	107	-8.819	8.048	-0.565	1.00	0.00
ATOM	1700	HG3	GLN	107	-8.058	9.480	0.167	1.00	0.00
ATOM	1701	CD	GLN	107	-8.269	9.576	-1.964	1.00	0.00
ATOM	1702	OE1	GLN	107	-7.382	9.708	-2.785	1.00	0.00
ATOM	1703	NE2	GLN	107	-9.440	10.110	-2.179	1.00	0.00
ATOM	1704	HE21	GLN	107	-9.606	10.630	-3.028	1.00	0.00
ATOM	1705	HE22	GLN	107	-10.175	10.000	-1.495	1.00	0.00
ATOM	1706	C	GLN	107	-7.477	6.168	0.614	1.00	0.00
ATOM	1707	O	GLN	107	-8.380	6.207	1.425	1.00	0.00
ATOM	1708	N	GLN	108	-7.359	5.173	-0.222	1.00	0.00
ATOM	1709	H	GLN	108	-6.612	5.136	-0.901	1.00	0.00
ATOM	1710	CA	GLN	108	-8.341	4.053	-0.191	1.00	0.00
ATOM	1711	HA	GLN	108	-9.306	4.384	-0.574	1.00	0.00
ATOM	1712	CB	GLN	108	-7.834	2.907	-1.069	1.00	0.00
ATOM	1713	HB2	GLN	108	-7.634	3.279	-2.074	1.00	0.00
ATOM	1714	HB3	GLN	108	-6.916	2.501	-0.643	1.00	0.00
ATOM	1715	CG	GLN	108	-8.895	1.807	-1.135	1.00	0.00
ATOM	1716	HG2	GLN	108	-9.175	1.488	-0.131	1.00	0.00
ATOM	1717	HG3	GLN	108	-9.779	2.166	-1.662	1.00	0.00

ATOM	1718	CD	GLN	108	-8.331	0.602	-1.891	1.00	0.00
ATOM	1719	OE1	GLN	108	-7.422	-0.053	-1.423	1.00	0.00
ATOM	1720	NE2	GLN	108	-8.838	0.279	-3.050	1.00	0.00
ATOM	1721	HE21	GLN	108	-8.471	-0.516	-3.555	1.00	0.00
ATOM	1722	HE22	GLN	108	-9.595	0.824	-3.436	1.00	0.00
ATOM	1723	C	GLN	108	-8.508	3.559	1.246	1.00	0.00
ATOM	1724	O	GLN	108	-9.552	3.068	1.628	1.00	0.00
ATOM	1725	N	CYX	109	-7.487	3.685	2.048	1.00	0.00
ATOM	1726	H	CYX	109	-6.615	4.090	1.738	1.00	0.00
ATOM	1727	CA	CYX	109	-7.587	3.222	3.461	1.00	0.00
ATOM	1728	HA	CYX	109	-8.630	3.058	3.731	1.00	0.00
ATOM	1729	CB	CYX	109	-6.826	1.902	3.627	1.00	0.00
ATOM	1730	HB2	CYX	109	-6.378	1.862	4.620	1.00	0.00
ATOM	1731	HB3	CYX	109	-7.515	1.066	3.506	1.00	0.00
ATOM	1732	SG	CYX	109	-5.484	1.809	2.413	1.00	0.00
ATOM	1733	C	CYX	109	-6.982	4.281	4.387	1.00	0.00
ATOM	1734	O	CYX	109	-6.512	3.978	5.466	1.00	0.00
ATOM	1735	N	ASN	110	-6.994	5.518	3.974	1.00	0.00
ATOM	1736	H	ASN	110	-7.384	5.773	3.078	1.00	0.00
ATOM	1737	CA	ASN	110	-6.423	6.597	4.829	1.00	0.00
ATOM	1738	HA	ASN	110	-6.235	7.491	4.234	1.00	0.00
ATOM	1739	CB	ASN	110	-7.416	6.948	5.939	1.00	0.00



ATOM	1740	HB2 ASN	110	-7.512	6.115	6.636	1.00	0.00
ATOM	1741	HB3 ASN	110	-7.083	7.835	6.477	1.00	0.00
ATOM	1742	CG ASN	110	-8.788	7.234	5.326	1.00	0.00
ATOM	1743	OD1 ASN	110	-8.894	7.959	4.357	1.00	0.00
ATOM	1744	ND2 ASN	110	-9.851	6.691	5.854	1.00	0.00
ATOM	1745	HD21 ASN	110	-10.760	6.875	5.454	1.00	0.00
ATOM	1746	HD22 ASN	110	-9.759	6.088	6.660	1.00	0.00
ATOM	1747	C ASN	110	-5.112	6.117	5.453	1.00	0.00
ATOM	1748	O ASN	110	-4.872	6.295	6.631	1.00	0.00
ATOM	1749	N PHE	111	-4.259	5.508	4.673	1.00	0.00
ATOM	1750	H PHE	111	-4.449	5.351	3.693	1.00	0.00
ATOM	1751	CA PHE	111	-2.965	5.021	5.227	1.00	0.00
ATOM	1752	HA PHE	111	-3.135	4.454	6.142	1.00	0.00
ATOM	1753	CB PHE	111	-2.284	4.108	4.206	1.00	0.00
ATOM	1754	HB2 PHE	111	-2.995	3.671	3.505	1.00	0.00
ATOM	1755	HB3 PHE	111	-1.499	4.623	3.653	1.00	0.00
ATOM	1756	CG PHE	111	-1.622	2.956	4.924	1.00	0.00
ATOM	1757	CD1 PHE	111	-2.377	1.836	5.294	1.00	0.00
ATOM	1758	HD1 PHE	111	-3.441	1.794	5.063	1.00	0.00
ATOM	1759	CE1 PHE	111	-1.763	0.769	5.961	1.00	0.00
ATOM	1760	HE1 PHE	111	-2.351	-0.102	6.251	1.00	0.00
ATOM	1761	CZ PHE	111	-0.395	0.820	6.256	1.00	0.00

ATOM	1762	HZ	PHE	111	0.083	-0.012	6.774	1.00	0.00
ATOM	1763	CE2	PHE	111	0.359	1.940	5.885	1.00	0.00
ATOM	1764	HE2	PHE	111	1.424	1.981	6.115	1.00	0.00
ATOM	1765	CD2	PHE	111	-0.255	3.007	5.219	1.00	0.00
ATOM	1766	HD2	PHE	111	0.332	3.878	4.930	1.00	0.00
ATOM	1767	C	PHE	111	-2.058	6.214	5.531	1.00	0.00
ATOM	1768	O	PHE	111	-0.972	6.063	6.053	1.00	0.00
ATOM	1769	N	ARG	112	-2.495	7.402	5.210	1.00	0.00
ATOM	1770	H	ARG	112	-3.397	7.537	4.777	1.00	0.00
ATOM	1771	CA	ARG	112	-1.655	8.602	5.484	1.00	0.00
ATOM	1772	HA	ARG	112	-0.804	8.631	4.803	1.00	0.00
ATOM	1773	CB	ARG	112	-2.490	9.868	5.278	1.00	0.00
ATOM	1774	HB2	ARG	112	-3.375	9.827	5.913	1.00	0.00
ATOM	1775	HB3	ARG	112	-1.895	10.742	5.541	1.00	0.00
ATOM	1776	CG	ARG	112	-2.918	9.964	3.811	1.00	0.00
ATOM	1777	HG2	ARG	112	-2.036	9.931	3.171	1.00	0.00
ATOM	1778	HG3	ARG	112	-3.574	9.128	3.567	1.00	0.00
ATOM	1779	CD	ARG	112	-3.664	11.280	3.584	1.00	0.00
ATOM	1780	HD2	ARG	112	-3.015	12.125	3.813	1.00	0.00
ATOM	1781	HD3	ARG	112	-3.999	11.350	2.549	1.00	0.00
ATOM	1782	NE	ARG	112	-4.855	11.336	4.477	1.00	0.00
ATOM	1783	HE	ARG	112	-5.553	10.605	4.472	1.00	0.00

ATOM	1784	CZ	ARG	112	-5.015	12.345	5.290	1.00	0.00
ATOM	1785	NH1	ARG	112	-4.566	12.273	6.513	1.00	0.00
ATOM	1786	HH11	ARG	112	-4.095	11.436	6.827	1.00	0.00
ATOM	1787	HH12	ARG	112	-4.691	13.054	7.140	1.00	0.00
ATOM	1788	NH2	ARG	112	-5.623	13.423	4.880	1.00	0.00
ATOM	1789	HH21	ARG	112	-5.969	13.474	3.933	1.00	0.00
ATOM	1790	HH22	ARG	112	-5.745	14.201	5.512	1.00	0.00
ATOM	1791	C	ARG	112	-1.156	8.551	6.929	1.00	0.00
ATOM	1792	O	ARG	112	-1.769	7.948	7.787	1.00	0.00
ATOM	1793	N	ALA	113	-0.046	9.181	7.207	1.00	0.00
ATOM	1794	H	ALA	113	0.471	9.685	6.501	1.00	0.00
ATOM	1795	CA	ALA	113	0.489	9.166	8.597	1.00	0.00
ATOM	1796	HA	ALA	113	-0.278	8.898	9.324	1.00	0.00
ATOM	1797	CB	ALA	113	1.629	8.151	8.694	1.00	0.00
ATOM	1798	HB1	ALA	113	2.409	8.410	7.978	1.00	0.00
ATOM	1799	HB2	ALA	113	2.043	8.163	9.702	1.00	0.00
ATOM	1800	HB3	ALA	113	1.249	7.154	8.470	1.00	0.00
ATOM	1801	C	ALA	113	1.013	10.557	8.958	1.00	0.00
ATOM	1802	O	ALA	113	1.233	11.389	8.100	1.00	0.00
ATOM	1803	N	PRO	114	1.216	10.808	10.260	1.00	0.00
ATOM	1804	CD	PRO	114	0.973	9.854	11.355	1.00	0.00
ATOM	1805	HD2	PRO	114	1.437	8.897	11.113	1.00	0.00

ATOM	1806	HD3 PRO	114	-0.100	9.714	11.483	1.00	0.00
ATOM	1807	CG PRO	114	1.610	10.520	12.541	1.00	0.00
ATOM	1808	HG2 PRO	114	2.634	10.162	12.650	1.00	0.00
ATOM	1809	HG3 PRO	114	1.043	10.277	13.440	1.00	0.00
ATOM	1810	CB PRO	114	1.572	11.986	12.266	1.00	0.00
ATOM	1811	HB2 PRO	114	2.430	12.447	12.755	1.00	0.00
ATOM	1812	HB3 PRO	114	0.659	12.484	12.590	1.00	0.00
ATOM	1813	CA PRO	114	1.717	12.098	10.749	1.00	0.00
ATOM	1814	HA PRO	114	1.113	12.890	10.308	1.00	0.00
ATOM	1815	C PRO	114	3.187	12.312	10.379	1.00	0.00
ATOM	1816	O PRO	114	3.717	13.398	10.502	1.00	0.00
ATOM	1817	N GLN	115	3.849	11.283	9.924	1.00	0.00
ATOM	1818	H GLN	115	3.414	10.377	9.819	1.00	0.00
ATOM	1819	CA GLN	115	5.282	11.426	9.544	1.00	0.00
ATOM	1820	HA GLN	115	5.697	12.340	9.968	1.00	0.00
ATOM	1821	CB GLN	115	6.074	10.233	10.084	1.00	0.00
ATOM	1822	HB2 GLN	115	5.712	9.315	9.620	1.00	0.00
ATOM	1823	HB3 GLN	115	7.131	10.363	9.852	1.00	0.00
ATOM	1824	CG GLN	115	5.892	10.143	11.601	1.00	0.00
ATOM	1825	HG2 GLN	115	4.844	9.971	11.846	1.00	0.00
ATOM	1826	HG3 GLN	115	6.497	9.333	12.009	1.00	0.00
ATOM	1827	CD GLN	115	6.336	11.457	12.246	1.00	0.00

ATOM	1828	OE1	GLN	115	7.431	11.926	12.003	1.00	0.00
ATOM	1829	NE2	GLN	115	5.529	12.074	13.064	1.00	0.00
ATOM	1830	HE21	GLN	115	5.817	12.942	13.493	1.00	0.00
ATOM	1831	HE22	GLN	115	4.621	11.680	13.264	1.00	0.00
ATOM	1832	C	GLN	115	5.403	11.471	8.020	1.00	0.00
ATOM	1833	O	GLN	115	4.591	10.914	7.306	1.00	0.00
ATOM	1834	N	ARG	116	6.409	12.128	7.514	1.00	0.00
ATOM	1835	H	ARG	116	7.087	12.593	8.100	1.00	0.00
ATOM	1836	CA	ARG	116	6.580	12.207	6.036	1.00	0.00
ATOM	1837	HA	ARG	116	5.754	11.704	5.532	1.00	0.00
ATOM	1838	CB	ARG	116	6.598	13.674	5.602	1.00	0.00
ATOM	1839	HB2	ARG	116	7.406	14.195	6.115	1.00	0.00
ATOM	1840	HB3	ARG	116	6.755	13.733	4.525	1.00	0.00
ATOM	1841	CG	ARG	116	5.261	14.327	5.959	1.00	0.00
ATOM	1842	HG2	ARG	116	4.450	13.782	5.476	1.00	0.00
ATOM	1843	HG3	ARG	116	5.122	14.302	7.040	1.00	0.00
ATOM	1844	CD	ARG	116	5.258	15.779	5.477	1.00	0.00
ATOM	1845	HD2	ARG	116	6.172	16.283	5.791	1.00	0.00
ATOM	1846	HD3	ARG	116	5.179	15.816	4.390	1.00	0.00
ATOM	1847	NE	ARG	116	4.091	16.495	6.066	1.00	0.00
ATOM	1848	HE	ARG	116	4.185	17.065	6.894	1.00	0.00
ATOM	1849	CZ	ARG	116	2.916	16.395	5.509	1.00	0.00

ATOM	1850	NH1	ARG	116	2.699	15.483	4.601	1.00	0.00
ATOM	1851	HH11	ARG	116	3.444	14.855	4.332	1.00	0.00
ATOM	1852	HH12	ARG	116	1.788	15.408	4.172	1.00	0.00
ATOM	1853	NH2	ARG	116	1.955	17.205	5.862	1.00	0.00
ATOM	1854	HH21	ARG	116	2.125	17.908	6.567	1.00	0.00
ATOM	1855	HH22	ARG	116	1.047	17.124	5.429	1.00	0.00
ATOM	1856	C	ARG	116	7.898	11.541	5.637	1.00	0.00
ATOM	1857	O	ARG	116	8.843	11.509	6.399	1.00	0.00
ATOM	1858	N	CYX	117	7.968	11.006	4.449	1.00	0.00
ATOM	1859	H	CYX	117	7.186	11.028	3.810	1.00	0.00
ATOM	1860	CA	CYX	117	9.224	10.342	4.004	1.00	0.00
ATOM	1861	HA	CYX	117	9.955	10.334	4.813	1.00	0.00
ATOM	1862	CB	CYX	117	8.923	8.896	3.603	1.00	0.00
ATOM	1863	HB2	CYX	117	8.150	8.884	2.835	1.00	0.00
ATOM	1864	HB3	CYX	117	9.828	8.430	3.213	1.00	0.00
ATOM	1865	SG	CYX	117	8.293	7.991	5.038	1.00	0.00
ATOM	1866	C	CYX	117	9.800	11.093	2.802	1.00	0.00
ATOM	1867	O	CYX	117	9.103	11.811	2.114	1.00	0.00
ATOM	1868	N	ASP	118	11.070	10.932	2.543	1.00	0.00
ATOM	1869	H	ASP	118	11.657	10.337	3.110	1.00	0.00
ATOM	1870	CA	ASP	118	11.688	11.637	1.385	1.00	0.00
ATOM	1871	HA	ASP	118	11.395	12.686	1.381	1.00	0.00

ATOM	1872	CB	ASP	118	13.212	11.556	1.493	1.00	0.00
ATOM	1873	HB2	ASP	118	13.523	10.511	1.505	1.00	0.00
ATOM	1874	HB3	ASP	118	13.663	12.058	0.637	1.00	0.00
ATOM	1875	CG	ASP	118	13.669	12.238	2.784	1.00	0.00
ATOM	1876	OD1	ASP	118	12.875	12.963	3.361	1.00	0.00
ATOM	1877	OD2	ASP	118	14.805	12.022	3.175	1.00	0.00
ATOM	1878	C	ASP	118	11.232	10.975	0.083	1.00	0.00
ATOM	1879	O	ASP	118	11.019	9.781	0.025	1.00	0.00
ATOM	1880	N	LEU	119	11.078	11.743	-0.961	1.00	0.00
ATOM	1881	H	LEU	119	11.253	12.736	-0.920	1.00	0.00
ATOM	1882	CA	LEU	119	10.633	11.157	-2.256	1.00	0.00
ATOM	1883	HA	LEU	119	9.821	10.449	-2.092	1.00	0.00
ATOM	1884	CB	LEU	119	10.131	12.274	-3.173	1.00	0.00
ATOM	1885	HB2	LEU	119	10.832	13.108	-3.146	1.00	0.00
ATOM	1886	HB3	LEU	119	10.050	11.900	-4.194	1.00	0.00
ATOM	1887	CG	LEU	119	8.757	12.747	-2.693	1.00	0.00
ATOM	1888	HG	LEU	119	8.150	11.883	-2.421	1.00	0.00
ATOM	1889	CD1	LEU	119	8.928	13.655	-1.474	1.00	0.00
ATOM	1890	HD11	LEU	119	9.535	14.518	-1.746	1.00	0.00
ATOM	1891	HD12	LEU	119	7.950	13.992	-1.132	1.00	0.00
ATOM	1892	HD13	LEU	119	9.422	13.102	-0.675	1.00	0.00
ATOM	1893	CD2	LEU	119	8.062	13.522	-3.814	1.00	0.00

ATOM	1894	HD21	LEU	119	7.940	12.874	-4.682	1.00	0.00
ATOM	1895	HD22	LEU	119	7.084	13.858	-3.471	1.00	0.00
ATOM	1896	HD23	LEU	119	8.667	14.386	-4.088	1.00	0.00
ATOM	1897	C	LEU	119	11.807	10.438	-2.924	1.00	0.00
ATOM	1898	O	LEU	119	11.626	9.592	-3.776	1.00	0.00
ATOM	1899	N	ASP	120	13.012	10.766	-2.542	1.00	0.00
ATOM	1900	H	ASP	120	13.173	11.469	-1.835	1.00	0.00
ATOM	1901	CA	ASP	120	14.194	10.098	-3.156	1.00	0.00
ATOM	1902	HA	ASP	120	14.138	10.155	-4.243	1.00	0.00
ATOM	1903	CB	ASP	120	15.474	10.798	-2.695	1.00	0.00
ATOM	1904	HB2	ASP	120	16.337	10.326	-3.165	1.00	0.00
ATOM	1905	HB3	ASP	120	15.436	11.849	-2.979	1.00	0.00
ATOM	1906	CG	ASP	120	15.596	10.685	-1.174	1.00	0.00
ATOM	1907	OD1	ASP	120	14.586	10.441	-0.534	1.00	0.00
ATOM	1908	OD2	ASP	120	16.698	10.844	-0.675	1.00	0.00
ATOM	1909	C	ASP	120	14.231	8.630	-2.727	1.00	0.00
ATOM	1910	O	ASP	120	14.690	7.772	-3.454	1.00	0.00
ATOM	1911	N	VAL	121	13.753	8.335	-1.549	1.00	0.00
ATOM	1912	H	VAL	121	13.371	9.042	-0.939	1.00	0.00
ATOM	1913	CA	VAL	121	13.762	6.922	-1.074	1.00	0.00
ATOM	1914	HA	VAL	121	14.787	6.569	-0.954	1.00	0.00
ATOM	1915	CB	VAL	121	13.054	6.836	0.280	1.00	0.00



ATOM	1916	HB	VAL	121	12.093	7.346	0.221	1.00	0.00
ATOM	1917	CG1	VAL	121	12.829	5.367	0.646	1.00	0.00
ATOM	1918	HG11	VAL	121	13.790	4.855	0.706	1.00	0.00
ATOM	1919	HG12	VAL	121	12.325	5.305	1.610	1.00	0.00
ATOM	1920	HG13	VAL	121	12.212	4.892	-0.117	1.00	0.00
ATOM	1921	CG2	VAL	121	13.921	7.501	1.351	1.00	0.00
ATOM	1922	HG21	VAL	121	14.082	8.547	1.091	1.00	0.00
ATOM	1923	HG22	VAL	121	13.418	7.440	2.316	1.00	0.00
ATOM	1924	HG23	VAL	121	14.882	6.989	1.410	1.00	0.00
ATOM	1925	C	VAL	121	13.032	6.038	-2.088	1.00	0.00
ATOM	1926	O	VAL	121	13.505	4.983	-2.460	1.00	0.00
ATOM	1927	N	SER	122	11.884	6.461	-2.539	1.00	0.00
ATOM	1928	H	SER	122	11.485	7.337	-2.234	1.00	0.00
ATOM	1929	CA	SER	122	11.125	5.645	-3.529	1.00	0.00
ATOM	1930	HA	SER	122	10.867	4.676	-3.101	1.00	0.00
ATOM	1931	CB	SER	122	9.833	6.372	-3.908	1.00	0.00
ATOM	1932	HB2	SER	122	10.076	7.303	-4.420	1.00	0.00
ATOM	1933	HB3	SER	122	9.240	5.739	-4.568	1.00	0.00
ATOM	1934	OG	SER	122	9.089	6.658	-2.733	1.00	0.00
ATOM	1935	HG	SER	122	8.279	7.114	-2.971	1.00	0.00
ATOM	1936	C	SER	122	11.979	5.437	-4.781	1.00	0.00
ATOM	1937	O	SER	122	11.927	4.403	-5.416	1.00	0.00

ATOM	1938	N	GLY	123	12.766	6.414	-5.143	1.00	0.00
ATOM	1939	H	GLY	123	12.815	7.277	-4.621	1.00	0.00
ATOM	1940	CA	GLY	123	13.622	6.271	-6.354	1.00	0.00
ATOM	1941	HA2	GLY	123	13.132	5.623	-7.081	1.00	0.00
ATOM	1942	HA3	GLY	123	13.800	7.249	-6.801	1.00	0.00
ATOM	1943	C	GLY	123	14.964	5.652	-5.961	1.00	0.00
ATOM	1944	O	GLY	123	15.909	5.655	-6.725	1.00	0.00
ATOM	1945	N	GLY	124	15.056	5.117	-4.773	1.00	0.00
ATOM	1946	H	GLY	124	14.276	5.109	-4.132	1.00	0.00
ATOM	1947	CA	GLY	124	16.337	4.497	-4.333	1.00	0.00
ATOM	1948	HA2	GLY	124	17.145	5.226	-4.397	1.00	0.00
ATOM	1949	HA3	GLY	124	16.246	4.144	-3.305	1.00	0.00
ATOM	1950	C	GLY	124	16.667	3.309	-5.239	1.00	0.00
ATOM	1951	O	GLY	124	16.678	3.422	-6.448	1.00	0.00
ATOM	1952	N	ARG	125	16.936	2.168	-4.663	1.00	0.00
ATOM	1953	H	ARG	125	16.929	2.064	-3.658	1.00	0.00
ATOM	1954	CA	ARG	125	17.263	0.975	-5.493	1.00	0.00
ATOM	1955	HA	ARG	125	18.137	1.173	-6.114	1.00	0.00
ATOM	1956	CB	ARG	125	17.573	-0.213	-4.578	1.00	0.00
ATOM	1957	HB2	ARG	125	16.748	-0.362	-3.882	1.00	0.00
ATOM	1958	HB3	ARG	125	17.706	-1.112	-5.180	1.00	0.00
ATOM	1959	CG	ARG	125	18.856	0.070	-3.795	1.00	0.00

ATOM	1960	HG2 ARG	125	19.655	0.333	-4.488	1.00	0.00
ATOM	1961	HG3 ARG	125	18.687	0.897	-3.106	1.00	0.00
ATOM	1962	CD ARG	125	19.257	-1.178	-3.005	1.00	0.00
ATOM	1963	HD2 ARG	125	18.404	-1.563	-2.447	1.00	0.00
ATOM	1964	HD3 ARG	125	19.627	-1.950	-3.680	1.00	0.00
ATOM	1965	NE ARG	125	20.339	-0.828	-2.042	1.00	0.00
ATOM	1966	HE ARG	125	20.273	-0.016	-1.445	1.00	0.00
ATOM	1967	CZ ARG	125	21.403	-1.578	-1.956	1.00	0.00
ATOM	1968	NH1 ARG	125	22.005	-1.984	-3.041	1.00	0.00
ATOM	1969	HH11 ARG	125	21.645	-1.716	-3.946	1.00	0.00
ATOM	1970	HH12 ARG	125	22.829	-2.565	-2.971	1.00	0.00
ATOM	1971	NH2 ARG	125	21.866	-1.923	-0.786	1.00	0.00
ATOM	1972	HH21 ARG	125	21.399	-1.608	0.052	1.00	0.00
ATOM	1973	HH22 ARG	125	22.690	-2.504	-0.724	1.00	0.00
ATOM	1974	C ARG	125	16.068	0.633	-6.385	1.00	0.00
ATOM	1975	O ARG	125	16.224	0.146	-7.489	1.00	0.00
ATOM	1976	N CYX	126	14.877	0.884	-5.919	1.00	0.00
ATOM	1977	H CYX	126	14.741	1.288	-5.004	1.00	0.00
ATOM	1978	CA CYX	126	13.673	0.574	-6.741	1.00	0.00
ATOM	1979	HA CYX	126	13.650	-0.486	-6.994	1.00	0.00
ATOM	1980	CB CYX	126	12.412	0.914	-5.945	1.00	0.00
ATOM	1981	HB2 CYX	126	12.477	1.939	-5.582	1.00	0.00

ATOM	1982	HB3	CYX	126	11.538	0.810	-6.587	1.00	0.00
ATOM	1983	SG	CYX	126	12.296	-0.175	-4.505	1.00	0.00
ATOM	1984	C	CYX	126	13.707	1.406	-8.025	1.00	0.00
ATOM	1985	O	CYX	126	13.101	1.056	-9.019	1.00	0.00
ATOM	1986	N	SER	127	14.412	2.503	-8.013	1.00	0.00
ATOM	1987	H	SER	127	14.920	2.797	-7.191	1.00	0.00
ATOM	1988	CA	SER	127	14.486	3.356	-9.232	1.00	0.00
ATOM	1989	HA	SER	127	15.159	4.197	-9.065	1.00	0.00
ATOM	1990	CB	SER	127	15.020	2.528	-10.403	1.00	0.00
ATOM	1991	HB2	SER	127	16.100	2.655	-10.476	1.00	0.00
ATOM	1992	HB3	SER	127	14.790	1.475	-10.239	1.00	0.00
ATOM	1993	OG	SER	127	14.410	2.963	-11.609	1.00	0.00
ATOM	1994	HG	SER	127	14.746	2.443	-12.343	1.00	0.00
ATOM	1995	C	SER	127	13.088	3.878	-9.575	1.00	0.00
ATOM	1996	O	SER	127	12.139	3.416	-8.964	1.00	0.00
ATOM	1997	OXT	SER	127	12.992	4.733	-10.440	1.00	0.00
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ATOM	1998	S1	LIG	128	4.851	-17.007	-8.477	1.00	0.00
ATOM	1999	O1	LIG	128	7.543	-19.357	-5.587	1.00	0.00
ATOM	2000	O2	LIG	128	3.791	-15.763	-8.583	1.00	0.00
ATOM	2001	O3	LIG	128	6.346	-16.882	-9.112	1.00	0.00
ATOM	2002	N1	LIG	128	4.971	-17.164	-6.629	1.00	0.00

ATOM	2003	H1	LIG	128	4.624	-16.294	-6.233	1.00	0.00
ATOM	2004	N2	LIG	128	6.492	-18.969	-6.524	1.00	0.00
ATOM	2005	N3	LIG	128	2.139	-21.970	-10.480	1.00	0.00
ATOM	2006	H10	LIG	128	1.167	-21.957	-10.740	1.00	0.00
ATOM	2007	H11	LIG	128	2.639	-22.836	-10.579	1.00	0.00
ATOM	2008	C1	LIG	128	4.029	-18.557	-9.060	1.00	0.00
ATOM	2009	C2	LIG	128	2.680	-18.479	-9.402	1.00	0.00
ATOM	2010	H2	LIG	128	2.150	-17.538	-9.305	1.00	0.00
ATOM	2011	C3	LIG	128	4.773	-19.731	-9.175	1.00	0.00
ATOM	2012	H3	LIG	128	5.813	-19.759	-8.874	1.00	0.00
ATOM	2013	C4	LIG	128	6.008	-17.835	-6.009	1.00	0.00
ATOM	2014	C5	LIG	128	2.764	-20.838	-10.009	1.00	0.00
ATOM	2015	C6	LIG	128	2.048	-19.623	-9.878	1.00	0.00
ATOM	2016	H4	LIG	128	1.000	-19.585	-10.154	1.00	0.00
ATOM	2017	C7	LIG	128	4.133	-20.872	-9.649	1.00	0.00
ATOM	2018	H5	LIG	128	4.689	-21.799	-9.740	1.00	0.00
ATOM	2019	C8	LIG	128	6.658	-17.460	-4.783	1.00	0.00
ATOM	2020	H6	LIG	128	6.453	-16.591	-4.180	1.00	0.00
ATOM	2021	C9	LIG	128	7.590	-18.432	-4.560	1.00	0.00
ATOM	2022	C10	LIG	128	8.601	-18.664	-3.495	1.00	0.00
ATOM	2023	H7	LIG	128	8.554	-17.870	-2.746	1.00	0.00
ATOM	2024	H8	LIG	128	8.430	-19.625	-2.997	1.00	0.00

ATOM	2025	H9	LIG	128	9.611	-18.688	-3.917	1.00	0.00
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ATOM	2026	S1	LIG	129	-22.795	12.903	5.186	1.00	0.00
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ATOM	2027	O1	LIG	129	-20.160	16.436	6.489	1.00	0.00
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ATOM	2028	O2	LIG	129	-23.641	12.276	3.932	1.00	0.00
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ATOM	2029	O3	LIG	129	-21.398	12.219	5.672	1.00	0.00
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ATOM	2030	N1	LIG	129	-22.454	14.604	4.517	1.00	0.00
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ATOM	2031	H1	LIG	129	-22.597	14.563	3.511	1.00	0.00
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ATOM	2032	N2	LIG	129	-21.249	15.473	6.354	1.00	0.00
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ATOM	2033	N3	LIG	129	-26.529	13.568	9.834	1.00	0.00
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ATOM	2034	H10	LIG	129	-27.511	13.375	9.738	1.00	0.00
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ATOM	2035	H11	LIG	129	-26.194	13.863	10.736	1.00	0.00
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ATOM	2036	C1	LIG	129	-23.930	13.148	6.624	1.00	0.00
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ATOM	2037	C2	LIG	129	-25.282	12.868	6.429	1.00	0.00
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ATOM	2038	H2	LIG	129	-25.633	12.537	5.458	1.00	0.00
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ATOM	2039	C3	LIG	129	-23.411	13.561	7.850	1.00	0.00
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ATOM	2040	H3	LIG	129	-22.359	13.795	7.955	1.00	0.00
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ATOM	2041	C4	LIG	129	-21.467	15.419	5.037	1.00	0.00
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ATOM	2042	C5	LIG	129	-25.668	13.429	8.769	1.00	0.00
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ATOM	2043	C6	LIG	129	-26.151	13.009	7.506	1.00	0.00
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ATOM	2044	H4	LIG	129	-27.207	12.792	7.378	1.00	0.00
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ATOM	2045	C7	LIG	129	-24.287	13.703	8.921	1.00	0.00
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ATOM	2046	H5	LIG	129	-23.908	14.031	9.883	1.00	0.00
ATOM	2047	C8	LIG	129	-20.605	16.299	4.296	1.00	0.00
ATOM	2048	H6	LIG	129	-20.582	16.435	3.227	1.00	0.00
ATOM	2049	C9	LIG	129	-19.823	16.909	5.234	1.00	0.00
ATOM	2050	C10	LIG	129	-18.730	17.914	5.167	1.00	0.00
ATOM	2051	H7	LIG	129	-18.545	18.207	4.131	1.00	0.00
ATOM	2052	H8	LIG	129	-18.988	18.810	5.743	1.00	0.00
ATOM	2053	H9	LIG	129	-17.804	17.509	5.587	1.00	0.00

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ATOM	2054	S1	LIG	130	20.721	-12.623	25.901	1.00	0.00
ATOM	2055	O1	LIG	130	23.615	-9.507	27.644	1.00	0.00
ATOM	2056	O2	LIG	130	19.818	-13.940	26.267	1.00	0.00
ATOM	2057	O3	LIG	130	20.012	-11.188	25.598	1.00	0.00
ATOM	2058	N1	LIG	130	21.739	-12.499	27.452	1.00	0.00
ATOM	2059	H1	LIG	130	21.261	-13.043	28.166	1.00	0.00
ATOM	2060	N2	LIG	130	23.028	-10.604	26.879	1.00	0.00
ATOM	2061	N3	LIG	130	24.476	-14.085	21.458	1.00	0.00
ATOM	2062	H10	LIG	130	24.526	-15.029	21.115	1.00	0.00
ATOM	2063	H11	LIG	130	25.067	-13.396	21.023	1.00	0.00
ATOM	2064	C1	LIG	130	21.910	-13.056	24.554	1.00	0.00
ATOM	2065	C2	LIG	130	21.937	-14.381	24.123	1.00	0.00
ATOM	2066	H2	LIG	130	21.288	-15.116	24.586	1.00	0.00

ATOM	2067	C3	LIG	130	22.706	-12.060	23.990	1.00	0.00
ATOM	2068	H3	LIG	130	22.676	-11.046	24.371	1.00	0.00
ATOM	2069	C4	LIG	130	22.412	-11.345	27.805	1.00	0.00
ATOM	2070	C5	LIG	130	23.626	-13.745	22.485	1.00	0.00
ATOM	2071	C6	LIG	130	22.797	-14.724	23.085	1.00	0.00
ATOM	2072	H4	LIG	130	22.831	-15.749	22.730	1.00	0.00
ATOM	2073	C7	LIG	130	23.566	-12.411	22.956	1.00	0.00
ATOM	2074	H5	LIG	130	24.201	-11.654	22.506	1.00	0.00
ATOM	2075	C8	LIG	130	22.569	-10.818	29.132	1.00	0.00
ATOM	2076	H6	LIG	130	22.168	-11.227	30.045	1.00	0.00
ATOM	2077	C9	LIG	130	23.324	-9.690	28.983	1.00	0.00
ATOM	2078	C10	LIG	130	23.848	-8.670	29.928	1.00	0.00
ATOM	2079	H7	LIG	130	23.551	-8.910	30.952	1.00	0.00
ATOM	2080	H8	LIG	130	24.942	-8.622	29.884	1.00	0.00
ATOM	2081	H9	LIG	130	23.466	-7.675	29.677	1.00	0.00
TER									
ATOM	2082	S1	LIG	131	22.268	20.755	1.311	1.00	0.00
ATOM	2083	O1	LIG	131	26.799	21.047	2.029	1.00	0.00
ATOM	2084	O2	LIG	131	20.837	21.507	1.569	1.00	0.00
ATOM	2085	O3	LIG	131	22.926	20.708	-0.179	1.00	0.00
ATOM	2086	N1	LIG	131	23.357	21.752	2.440	1.00	0.00
ATOM	2087	H1	LIG	131	22.865	22.619	2.639	1.00	0.00



ATOM	2088	N2	LIG	131	25.399	20.631	2.047	1.00	0.00
ATOM	2089	N3	LIG	131	21.942	15.231	3.628	1.00	0.00
ATOM	2090	H10	LIG	131	21.130	14.935	4.142	1.00	0.00
ATOM	2091	H11	LIG	131	22.688	14.567	3.506	1.00	0.00
ATOM	2092	C1	LIG	131	22.206	19.059	2.044	1.00	0.00
ATOM	2093	C2	LIG	131	21.056	18.707	2.749	1.00	0.00
ATOM	2094	H2	LIG	131	20.250	19.422	2.865	1.00	0.00
ATOM	2095	C3	LIG	131	23.271	18.182	1.845	1.00	0.00
ATOM	2096	H3	LIG	131	24.159	18.501	1.314	1.00	0.00
ATOM	2097	C4	LIG	131	24.734	21.755	2.328	1.00	0.00
ATOM	2098	C5	LIG	131	22.029	16.500	3.104	1.00	0.00
ATOM	2099	C6	LIG	131	20.969	17.423	3.279	1.00	0.00
ATOM	2100	H4	LIG	131	20.082	17.126	3.828	1.00	0.00
ATOM	2101	C7	LIG	131	23.178	16.902	2.381	1.00	0.00
ATOM	2102	H5	LIG	131	23.998	16.203	2.245	1.00	0.00
ATOM	2103	C8	LIG	131	25.606	22.883	2.515	1.00	0.00
ATOM	2104	H6	LIG	131	25.316	23.895	2.745	1.00	0.00
ATOM	2105	C9	LIG	131	26.867	22.396	2.329	1.00	0.00
ATOM	2106	C10	LIG	131	28.222	23.005	2.367	1.00	0.00
ATOM	2107	H7	LIG	131	28.154	24.070	2.602	1.00	0.00
ATOM	2108	H8	LIG	131	28.848	22.519	3.123	1.00	0.00
ATOM	2109	H9	LIG	131	28.726	22.892	1.401	1.00	0.00

TER

ATOM	2110	S1	LIG	132	-24.352	-18.224	-5.124	1.00	0.00
ATOM	2111	O1	LIG	132	-24.092	-21.879	-2.350	1.00	0.00
ATOM	2112	O2	LIG	132	-23.706	-16.752	-5.437	1.00	0.00
ATOM	2113	O3	LIG	132	-24.078	-19.481	-6.124	1.00	0.00
ATOM	2114	N1	LIG	132	-23.576	-18.564	-3.470	1.00	0.00
ATOM	2115	H1	LIG	132	-22.780	-17.937	-3.380	1.00	0.00
ATOM	2116	N2	LIG	132	-24.540	-20.680	-3.053	1.00	0.00
ATOM	2117	N3	LIG	132	-30.238	-17.539	-4.186	1.00	0.00
ATOM	2118	H10	LIG	132	-30.653	-16.624	-4.164	1.00	0.00
ATOM	2119	H11	LIG	132	-30.843	-18.332	-4.057	1.00	0.00
ATOM	2120	C1	LIG	132	-26.162	-18.037	-4.800	1.00	0.00
ATOM	2121	C2	LIG	132	-26.680	-16.743	-4.778	1.00	0.00
ATOM	2122	H2	LIG	132	-26.025	-15.894	-4.931	1.00	0.00
ATOM	2123	C3	LIG	132	-26.952	-19.172	-4.627	1.00	0.00
ATOM	2124	H3	LIG	132	-26.509	-20.160	-4.624	1.00	0.00
ATOM	2125	C4	LIG	132	-23.514	-19.834	-2.929	1.00	0.00
ATOM	2126	C5	LIG	132	-28.887	-17.703	-4.389	1.00	0.00
ATOM	2127	C6	LIG	132	-28.046	-16.578	-4.573	1.00	0.00
ATOM	2128	H4	LIG	132	-28.472	-15.580	-4.556	1.00	0.00
ATOM	2129	C7	LIG	132	-28.317	-18.999	-4.418	1.00	0.00
ATOM	2130	H5	LIG	132	-28.951	-19.868	-4.273	1.00	0.00

ATOM	2131	C8	LIG	132	-22.425	-20.390	-2.173	1.00	0.00
ATOM	2132	H6	LIG	132	-21.489	-19.912	-1.937	1.00	0.00
ATOM	2133	C9	LIG	132	-22.831	-21.647	-1.832	1.00	0.00
ATOM	2134	C10	LIG	132	-22.206	-22.759	-1.069	1.00	0.00
ATOM	2135	H7	LIG	132	-21.213	-22.469	-0.717	1.00	0.00
ATOM	2136	H8	LIG	132	-22.819	-23.031	-0.202	1.00	0.00
ATOM	2137	H9	LIG	132	-22.108	-23.653	-1.694	1.00	0.00
TER									
ATOM	2138	S1	LIG	133	24.500	9.695	-22.044	1.00	0.00
ATOM	2139	O1	LIG	133	23.211	12.519	-25.433	1.00	0.00
ATOM	2140	O2	LIG	133	25.774	9.219	-21.131	1.00	0.00
ATOM	2141	O3	LIG	133	23.306	10.596	-21.398	1.00	0.00
ATOM	2142	N1	LIG	133	25.393	10.683	-23.340	1.00	0.00
ATOM	2143	H1	LIG	133	26.313	10.903	-22.967	1.00	0.00
ATOM	2144	N2	LIG	133	23.528	11.338	-24.635	1.00	0.00
ATOM	2145	N3	LIG	133	22.230	4.865	-24.783	1.00	0.00
ATOM	2146	H10	LIG	133	22.676	3.968	-24.699	1.00	0.00
ATOM	2147	H11	LIG	133	21.388	4.921	-25.331	1.00	0.00
ATOM	2148	C1	LIG	133	23.800	8.229	-22.924	1.00	0.00
ATOM	2149	C2	LIG	133	24.464	7.012	-22.773	1.00	0.00
ATOM	2150	H2	LIG	133	25.363	6.956	-22.171	1.00	0.00
ATOM	2151	C3	LIG	133	22.631	8.366	-23.671	1.00	0.00

ATOM	2152	H3	LIG	133	22.159	9.334	-23.788	1.00	0.00
ATOM	2153	C4	LIG	133	24.746	11.597	-24.150	1.00	0.00
ATOM	2154	C5	LIG	133	22.752	5.980	-24.167	1.00	0.00
ATOM	2155	C6	LIG	133	23.936	5.886	-23.396	1.00	0.00
ATOM	2156	H4	LIG	133	24.433	4.928	-23.289	1.00	0.00
ATOM	2157	C7	LIG	133	22.111	7.236	-24.295	1.00	0.00
ATOM	2158	H5	LIG	133	21.206	7.320	-24.888	1.00	0.00
ATOM	2159	C8	LIG	133	25.261	12.865	-24.592	1.00	0.00
ATOM	2160	H6	LIG	133	26.213	13.301	-24.339	1.00	0.00
ATOM	2161	C9	LIG	133	24.283	13.391	-25.385	1.00	0.00
ATOM	2162	C10	LIG	133	24.150	14.659	-26.151	1.00	0.00
ATOM	2163	H7	LIG	133	25.048	15.271	-26.034	1.00	0.00
ATOM	2164	H8	LIG	133	24.002	14.457	-27.218	1.00	0.00
ATOM	2165	H9	LIG	133	23.286	15.235	-25.802	1.00	0.00
TER									
ATOM	2166	S1	LIG	134	-25.324	-0.420	27.128	1.00	0.00
ATOM	2167	O1	LIG	134	-25.774	-2.534	23.072	1.00	0.00
ATOM	2168	O2	LIG	134	-24.254	-0.028	28.304	1.00	0.00
ATOM	2169	O3	LIG	134	-25.918	0.724	26.130	1.00	0.00
ATOM	2170	N1	LIG	134	-24.295	-1.622	26.153	1.00	0.00
ATOM	2171	H1	LIG	134	-23.326	-1.466	26.415	1.00	0.00
ATOM	2172	N2	LIG	134	-25.874	-2.168	24.482	1.00	0.00

ATOM	2173	N3	LIG	134	-29.794	-3.556	29.612	1.00	0.00
ATOM	2174	H10	LIG	134	-29.762	-3.818	30.582	1.00	0.00
ATOM	2175	H11	LIG	134	-30.603	-3.827	29.079	1.00	0.00
ATOM	2176	C1	LIG	134	-26.698	-1.415	27.862	1.00	0.00
ATOM	2177	C2	LIG	134	-26.596	-1.752	29.211	1.00	0.00
ATOM	2178	H2	LIG	134	-25.728	-1.445	29.782	1.00	0.00
ATOM	2179	C3	LIG	134	-27.794	-1.764	27.074	1.00	0.00
ATOM	2180	H3	LIG	134	-27.824	-1.507	26.023	1.00	0.00
ATOM	2181	C4	LIG	134	-24.605	-1.978	24.854	1.00	0.00
ATOM	2182	C5	LIG	134	-28.767	-2.847	29.033	1.00	0.00
ATOM	2183	C6	LIG	134	-27.635	-2.469	29.796	1.00	0.00
ATOM	2184	H4	LIG	134	-27.580	-2.738	30.845	1.00	0.00
ATOM	2185	C7	LIG	134	-28.826	-2.484	27.665	1.00	0.00
ATOM	2186	H5	LIG	134	-29.687	-2.773	27.070	1.00	0.00
ATOM	2187	C8	LIG	134	-23.673	-2.214	23.785	1.00	0.00
ATOM	2188	H6	LIG	134	-22.600	-2.126	23.830	1.00	0.00
ATOM	2189	C9	LIG	134	-24.440	-2.562	22.711	1.00	0.00
ATOM	2190	C10	LIG	134	-24.134	-2.926	21.303	1.00	0.00
ATOM	2191	H7	LIG	134	-23.055	-2.906	21.130	1.00	0.00
ATOM	2192	H8	LIG	134	-24.507	-3.930	21.069	1.00	0.00
ATOM	2193	H9	LIG	134	-24.613	-2.228	20.608	1.00	0.00

TER

ATOM	2194	S1	LIG	135	-23.036	14.043	-26.967	1.00	0.00
ATOM	2195	O1	LIG	135	-26.148	14.996	-23.721	1.00	0.00
ATOM	2196	O2	LIG	135	-22.019	14.713	-28.062	1.00	0.00
ATOM	2197	O3	LIG	135	-22.457	13.334	-25.619	1.00	0.00
ATOM	2198	N1	LIG	135	-24.031	15.543	-26.502	1.00	0.00
ATOM	2199	H1	LIG	135	-23.496	16.357	-26.793	1.00	0.00
ATOM	2200	N2	LIG	135	-25.486	14.533	-24.938	1.00	0.00
ATOM	2201	N3	LIG	135	-26.740	10.319	-29.865	1.00	0.00
ATOM	2202	H10	LIG	135	-26.717	10.246	-30.867	1.00	0.00
ATOM	2203	H11	LIG	135	-27.394	9.739	-29.367	1.00	0.00
ATOM	2204	C1	LIG	135	-24.210	12.913	-27.839	1.00	0.00
ATOM	2205	C2	LIG	135	-24.134	12.858	-29.230	1.00	0.00
ATOM	2206	H2	LIG	135	-23.418	13.475	-29.759	1.00	0.00
ATOM	2207	C3	LIG	135	-25.098	12.135	-27.097	1.00	0.00
ATOM	2208	H3	LIG	135	-25.146	12.226	-26.019	1.00	0.00
ATOM	2209	C4	LIG	135	-24.792	15.598	-25.350	1.00	0.00
ATOM	2210	C5	LIG	135	-25.902	11.179	-29.194	1.00	0.00
ATOM	2211	C6	LIG	135	-24.982	11.987	-29.907	1.00	0.00
ATOM	2212	H4	LIG	135	-24.937	11.924	-30.989	1.00	0.00
ATOM	2213	C7	LIG	135	-25.945	11.270	-27.782	1.00	0.00
ATOM	2214	H5	LIG	135	-26.650	10.659	-27.227	1.00	0.00
ATOM	2215	C8	LIG	135	-24.968	16.740	-24.494	1.00	0.00

ATOM	2216	H6	LIG	135	-24.515	17.711	-24.608	1.00	0.00
ATOM	2217	C9	LIG	135	-25.817	16.322	-23.510	1.00	0.00
ATOM	2218	C10	LIG	135	-26.407	16.978	-22.313	1.00	0.00
ATOM	2219	H7	LIG	135	-26.071	18.015	-22.242	1.00	0.00
ATOM	2220	H8	LIG	135	-27.502	16.968	-22.362	1.00	0.00
ATOM	2221	H9	LIG	135	-26.114	16.451	-21.398	1.00	0.00
TER									
ATOM	2222	S1	LIG	136	-4.077	6.496	-24.989	1.00	0.00
ATOM	2223	O1	LIG	136	-0.556	4.513	-27.180	1.00	0.00
ATOM	2224	O2	LIG	136	-4.546	7.158	-23.567	1.00	0.00
ATOM	2225	O3	LIG	136	-3.827	7.431	-26.299	1.00	0.00
ATOM	2226	N1	LIG	136	-2.471	5.722	-24.462	1.00	0.00
ATOM	2227	H1	LIG	136	-2.198	6.166	-23.590	1.00	0.00
ATOM	2228	N2	LIG	136	-1.839	4.772	-26.531	1.00	0.00
ATOM	2229	N3	LIG	136	-7.831	2.006	-26.308	1.00	0.00
ATOM	2230	H10	LIG	136	-8.550	1.729	-25.661	1.00	0.00
ATOM	2231	H11	LIG	136	-7.773	1.515	-27.183	1.00	0.00
ATOM	2232	C1	LIG	136	-5.200	5.088	-25.404	1.00	0.00
ATOM	2233	C2	LIG	136	-6.174	4.746	-24.467	1.00	0.00
ATOM	2234	H2	LIG	136	-6.240	5.288	-23.531	1.00	0.00
ATOM	2235	C3	LIG	136	-5.071	4.441	-26.632	1.00	0.00
ATOM	2236	H3	LIG	136	-4.284	4.718	-27.323	1.00	0.00

ATOM	2237	C4	LIG	136	-1.501	5.339	-25.369	1.00	0.00
ATOM	2238	C5	LIG	136	-6.959	3.027	-26.007	1.00	0.00
ATOM	2239	C6	LIG	136	-7.055	3.713	-24.772	1.00	0.00
ATOM	2240	H4	LIG	136	-7.824	3.433	-24.059	1.00	0.00
ATOM	2241	C7	LIG	136	-5.953	3.408	-26.928	1.00	0.00
ATOM	2242	H5	LIG	136	-5.868	2.885	-27.875	1.00	0.00
ATOM	2243	C8	LIG	136	-0.078	5.454	-25.201	1.00	0.00
ATOM	2244	H6	LIG	136	0.442	5.876	-24.357	1.00	0.00
ATOM	2245	C9	LIG	136	0.461	4.925	-26.338	1.00	0.00
ATOM	2246	C10	LIG	136	1.852	4.734	-26.825	1.00	0.00
ATOM	2247	H7	LIG	136	2.568	5.102	-26.086	1.00	0.00
ATOM	2248	H8	LIG	136	2.058	3.674	-27.013	1.00	0.00
ATOM	2249	H9	LIG	136	2.012	5.272	-27.765	1.00	0.00
TER									
ATOM	2250	S1	LIG	137	-15.865	-19.990	-19.456	1.00	0.00
ATOM	2251	O1	LIG	137	-20.326	-18.905	-19.660	1.00	0.00
ATOM	2252	O2	LIG	137	-14.350	-19.368	-19.467	1.00	0.00
ATOM	2253	O3	LIG	137	-16.502	-20.604	-18.088	1.00	0.00
ATOM	2254	N1	LIG	137	-16.828	-18.486	-19.970	1.00	0.00
ATOM	2255	H1	LIG	137	-16.228	-17.680	-19.812	1.00	0.00
ATOM	2256	N2	LIG	137	-18.995	-19.428	-19.953	1.00	0.00
ATOM	2257	N3	LIG	137	-16.306	-23.960	-23.933	1.00	0.00



ATOM	2258	H10	LIG	137	-15.548	-24.093	-24.580	1.00	0.00
ATOM	2259	H11	LIG	137	-17.131	-24.521	-24.055	1.00	0.00
ATOM	2260	C1	LIG	137	-16.038	-21.196	-20.847	1.00	0.00
ATOM	2261	C2	LIG	137	-14.955	-21.334	-21.714	1.00	0.00
ATOM	2262	H2	LIG	137	-14.063	-20.735	-21.568	1.00	0.00
ATOM	2263	C3	LIG	137	-17.207	-21.945	-20.969	1.00	0.00
ATOM	2264	H3	LIG	137	-18.037	-21.790	-20.291	1.00	0.00
ATOM	2265	C4	LIG	137	-18.191	-18.376	-19.771	1.00	0.00
ATOM	2266	C5	LIG	137	-16.216	-23.043	-22.911	1.00	0.00
ATOM	2267	C6	LIG	137	-15.046	-22.261	-22.747	1.00	0.00
ATOM	2268	H4	LIG	137	-14.214	-22.389	-23.432	1.00	0.00
ATOM	2269	C7	LIG	137	-17.292	-22.867	-22.007	1.00	0.00
ATOM	2270	H5	LIG	137	-18.195	-23.457	-22.127	1.00	0.00
ATOM	2271	C8	LIG	137	-18.908	-17.188	-19.395	1.00	0.00
ATOM	2272	H6	LIG	137	-18.490	-16.217	-19.189	1.00	0.00
ATOM	2273	C9	LIG	137	-20.220	-17.562	-19.347	1.00	0.00
ATOM	2274	C10	LIG	137	-21.483	-16.847	-19.025	1.00	0.00
ATOM	2275	H7	LIG	137	-21.278	-15.801	-18.786	1.00	0.00
ATOM	2276	H8	LIG	137	-22.179	-16.882	-19.871	1.00	0.00
ATOM	2277	H9	LIG	137	-21.984	-17.310	-18.168	1.00	0.00
TER									
END									

**Table E:** The number of atoms present in the system of BE-Dic

ATOM	1	N	GLU	1	9.554	18.504	-4.758	1.00	0.00
ATOM	2	H1	GLU	1	9.864	19.119	-5.496	1.00	0.00
ATOM	3	H2	GLU	1	9.961	17.591	-4.904	1.00	0.00
ATOM	4	H3	GLU	1	9.674	18.974	-3.872	1.00	0.00
ATOM	5	CA	GLU	1	8.084	18.308	-4.904	1.00	0.00
ATOM	6	HA	GLU	1	7.855	17.251	-5.044	1.00	0.00
ATOM	7	CB	GLU	1	7.377	18.798	-3.637	1.00	0.00
ATOM	8	HB2	GLU	1	7.798	18.292	-2.768	1.00	0.00
ATOM	9	HB3	GLU	1	7.520	19.873	-3.535	1.00	0.00
ATOM	10	CG	GLU	1	5.879	18.489	-3.732	1.00	0.00
ATOM	11	HG2	GLU	1	5.482	18.933	-4.644	1.00	0.00
ATOM	12	HG3	GLU	1	5.735	17.409	-3.761	1.00	0.00
ATOM	13	CD	GLU	1	5.147	19.067	-2.525	1.00	0.00
ATOM	14	OE1	GLU	1	5.276	18.501	-1.451	1.00	0.00
ATOM	15	OE2	GLU	1	4.465	20.065	-2.692	1.00	0.00
ATOM	16	C	GLU	1	7.588	19.089	-6.119	1.00	0.00
ATOM	17	O	GLU	1	7.443	20.311	-6.066	1.00	0.00
ATOM	18	N	ALA	2	7.328	18.372	-7.210	1.00	0.00
ATOM	19	H	ALA	2	7.480	17.373	-7.212	1.00	0.00
ATOM	20	CA	ALA	2	6.844	19.002	-8.435	1.00	0.00

ATOM	21	HA	ALA	2	7.500	19.825	-8.718	1.00	0.00
ATOM	22	CB	ALA	2	6.820	17.982	-9.575	1.00	0.00
ATOM	23	HB1	ALA	2	6.160	17.156	-9.310	1.00	0.00
ATOM	24	HB2	ALA	2	6.456	18.460	-10.484	1.00	0.00
ATOM	25	HB3	ALA	2	7.828	17.601	-9.744	1.00	0.00
ATOM	26	C	ALA	2	5.443	19.570	-8.230	1.00	0.00
ATOM	27	O	ALA	2	4.650	19.027	-7.462	1.00	0.00
ATOM	28	N	GLU	3	5.148	20.666	-8.922	1.00	0.00
ATOM	29	H	GLU	3	5.841	21.093	-9.519	1.00	0.00
ATOM	30	CA	GLU	3	3.839	21.304	-8.814	1.00	0.00
ATOM	31	HA	GLU	3	3.628	21.547	-7.772	1.00	0.00
ATOM	32	CB	GLU	3	3.814	22.602	-9.636	1.00	0.00
ATOM	33	HB2	GLU	3	2.919	23.168	-9.378	1.00	0.00
ATOM	34	HB3	GLU	3	4.699	23.192	-9.395	1.00	0.00
ATOM	35	CG	GLU	3	3.804	22.285	-11.139	1.00	0.00
ATOM	36	HG2	GLU	3	2.923	21.687	-11.371	1.00	0.00
ATOM	37	HG3	GLU	3	3.765	23.220	-11.697	1.00	0.00
ATOM	38	CD	GLU	3	5.062	21.510	-11.531	1.00	0.00
ATOM	39	OE1	GLU	3	6.147	22.015	-11.293	1.00	0.00
ATOM	40	OE2	GLU	3	4.921	20.420	-12.063	1.00	0.00
ATOM	41	C	GLU	3	2.736	20.363	-9.297	1.00	0.00
ATOM	42	O	GLU	3	1.578	20.494	-8.898	1.00	0.00

ATOM	43	N	ALA	4	3.106	19.419	-10.160	1.00	0.00
ATOM	44	H	ALA	4	4.062	19.371	-10.483	1.00	0.00
ATOM	45	CA	ALA	4	2.144	18.460	-10.698	1.00	0.00
ATOM	46	HA	ALA	4	1.247	18.989	-11.018	1.00	0.00
ATOM	47	CB	ALA	4	2.741	17.735	-11.906	1.00	0.00
ATOM	48	HB1	ALA	4	3.636	17.193	-11.599	1.00	0.00
ATOM	49	HB2	ALA	4	2.010	17.032	-12.306	1.00	0.00
ATOM	50	HB3	ALA	4	3.003	18.462	-12.674	1.00	0.00
ATOM	51	C	ALA	4	1.730	17.450	-9.639	1.00	0.00
ATOM	52	O	ALA	4	0.878	16.594	-9.882	1.00	0.00
ATOM	53	N	GLN	5	2.329	17.565	-8.463	1.00	0.00
ATOM	54	H	GLN	5	3.023	18.284	-8.316	1.00	0.00
ATOM	55	CA	GLN	5	2.015	16.673	-7.357	1.00	0.00
ATOM	56	HA	GLN	5	2.382	15.666	-7.560	1.00	0.00
ATOM	57	CB	GLN	5	2.694	17.194	-6.095	1.00	0.00
ATOM	58	HB2	GLN	5	3.770	17.248	-6.262	1.00	0.00
ATOM	59	HB3	GLN	5	2.312	18.189	-5.866	1.00	0.00
ATOM	60	CG	GLN	5	2.407	16.254	-4.919	1.00	0.00
ATOM	61	HG2	GLN	5	1.335	16.078	-4.834	1.00	0.00
ATOM	62	HG3	GLN	5	2.920	15.304	-5.072	1.00	0.00
ATOM	63	CD	GLN	5	2.904	16.872	-3.616	1.00	0.00
ATOM	64	OE1	GLN	5	2.516	17.988	-3.269	1.00	0.00

ATOM	65	NE2	GLN	5	3.742	16.209	-2.868	1.00	0.00
ATOM	66	HE21	GLN	5	4.074	16.614	-2.004	1.00	0.00
ATOM	67	HE22	GLN	5	4.056	15.293	-3.156	1.00	0.00
ATOM	68	C	GLN	5	0.506	16.614	-7.132	1.00	0.00
ATOM	69	O	GLN	5	-0.044	15.561	-6.810	1.00	0.00
ATOM	70	N	GLU	6	-0.153	17.759	-7.299	1.00	0.00
ATOM	71	H	GLU	6	0.349	18.603	-7.534	1.00	0.00
ATOM	72	CA	GLU	6	-1.597	17.842	-7.109	1.00	0.00
ATOM	73	HA	GLU	6	-1.851	17.650	-6.066	1.00	0.00
ATOM	74	CB	GLU	6	-2.087	19.246	-7.483	1.00	0.00
ATOM	75	HB2	GLU	6	-3.153	19.322	-7.272	1.00	0.00
ATOM	76	HB3	GLU	6	-1.546	19.985	-6.891	1.00	0.00
ATOM	77	CG	GLU	6	-1.841	19.506	-8.974	1.00	0.00
ATOM	78	HG2	GLU	6	-0.807	19.258	-9.215	1.00	0.00
ATOM	79	HG3	GLU	6	-2.511	18.880	-9.563	1.00	0.00
ATOM	80	CD	GLU	6	-2.101	20.975	-9.297	1.00	0.00
ATOM	81	OE1	GLU	6	-3.260	21.353	-9.353	1.00	0.00
ATOM	82	OE2	GLU	6	-1.137	21.699	-9.484	1.00	0.00
ATOM	83	C	GLU	6	-2.325	16.792	-7.948	1.00	0.00
ATOM	84	O	GLU	6	-3.241	16.130	-7.461	1.00	0.00
ATOM	85	N	GLU	7	-1.903	16.631	-9.203	1.00	0.00
ATOM	86	H	GLU	7	-1.155	17.202	-9.571	1.00	0.00

ATOM	87	CA	GLU	7	-2.515	15.643	-10.083	1.00	0.00
ATOM	88	HA	GLU	7	-3.565	15.888	-10.241	1.00	0.00
ATOM	89	CB	GLU	7	-1.805	15.627	-11.443	1.00	0.00
ATOM	90	HB2	GLU	7	-2.002	16.563	-11.964	1.00	0.00
ATOM	91	HB3	GLU	7	-0.731	15.516	-11.289	1.00	0.00
ATOM	92	CG	GLU	7	-2.324	14.453	-12.286	1.00	0.00
ATOM	93	HG2	GLU	7	-3.340	14.213	-11.971	1.00	0.00
ATOM	94	HG3	GLU	7	-2.327	14.738	-13.338	1.00	0.00
ATOM	95	CD	GLU	7	-1.430	13.230	-12.093	1.00	0.00
ATOM	96	OE1	GLU	7	-0.260	13.315	-12.429	1.00	0.00
ATOM	97	OE2	GLU	7	-1.929	12.224	-11.616	1.00	0.00
ATOM	98	C	GLU	7	-2.425	14.268	-9.447	1.00	0.00
ATOM	99	O	GLU	7	-3.365	13.475	-9.508	1.00	0.00
ATOM	100	N	CYX	8	-1.272	13.995	-8.845	1.00	0.00
ATOM	101	H	CYX	8	-0.522	14.672	-8.837	1.00	0.00
ATOM	102	CA	CYX	8	-1.046	12.714	-8.209	1.00	0.00
ATOM	103	HA	CYX	8	-1.303	11.906	-8.894	1.00	0.00
ATOM	104	CB	CYX	8	0.429	12.575	-7.820	1.00	0.00
ATOM	105	HB2	CYX	8	0.680	13.325	-7.070	1.00	0.00
ATOM	106	HB3	CYX	8	0.606	11.580	-7.411	1.00	0.00
ATOM	107	SG	CYX	8	1.466	12.814	-9.283	1.00	0.00
ATOM	108	C	CYX	8	-1.916	12.565	-6.968	1.00	0.00

ATOM	109	O	CYX	8	-2.703	11.625	-6.866	1.00	0.00
ATOM	110	N	ARG	9	-1.767	13.499	-6.032	1.00	0.00
ATOM	111	H	ARG	9	-1.092	14.240	-6.156	1.00	0.00
ATOM	112	CA	ARG	9	-2.540	13.466	-4.794	1.00	0.00
ATOM	113	HA	ARG	9	-2.274	12.585	-4.209	1.00	0.00
ATOM	114	CB	ARG	9	-2.239	14.715	-3.962	1.00	0.00
ATOM	115	HB2	ARG	9	-1.163	14.795	-3.806	1.00	0.00
ATOM	116	HB3	ARG	9	-2.595	15.597	-4.492	1.00	0.00
ATOM	117	CG	ARG	9	-2.945	14.615	-2.605	1.00	0.00
ATOM	118	HG2	ARG	9	-4.024	14.588	-2.758	1.00	0.00
ATOM	119	HG3	ARG	9	-2.628	13.704	-2.097	1.00	0.00
ATOM	120	CD	ARG	9	-2.582	15.829	-1.748	1.00	0.00
ATOM	121	HD2	ARG	9	-2.962	15.695	-0.735	1.00	0.00
ATOM	122	HD3	ARG	9	-1.499	15.950	-1.716	1.00	0.00
ATOM	123	NE	ARG	9	-3.172	17.040	-2.313	1.00	0.00
ATOM	124	HE	ARG	9	-3.846	16.973	-3.062	1.00	0.00
ATOM	125	CZ	ARG	9	-2.839	18.249	-1.863	1.00	0.00
ATOM	126	NH1	ARG	9	-1.973	18.374	-0.894	1.00	0.00
ATOM	127	HH11	ARG	9	-1.555	17.550	-0.485	1.00	0.00
ATOM	128	HH12	ARG	9	-1.725	19.293	-0.558	1.00	0.00
ATOM	129	NH2	ARG	9	-3.382	19.311	-2.390	1.00	0.00
ATOM	130	HH21	ARG	9	-4.053	19.212	-3.138	1.00	0.00

ATOM	131	HH22	ARG	9	-3.128	20.226	-2.047	1.00	0.00
ATOM	132	C	ARG	9	-4.035	13.389	-5.086	1.00	0.00
ATOM	133	O	ARG	9	-4.758	12.621	-4.454	1.00	0.00
ATOM	134	N	GLU	10	-4.493	14.187	-6.047	1.00	0.00
ATOM	135	H	GLU	10	-3.870	14.817	-6.532	1.00	0.00
ATOM	136	CA	GLU	10	-5.906	14.193	-6.412	1.00	0.00
ATOM	137	HA	GLU	10	-6.515	14.466	-5.550	1.00	0.00
ATOM	138	CB	GLU	10	-6.149	15.215	-7.527	1.00	0.00
ATOM	139	HB2	GLU	10	-5.889	16.210	-7.167	1.00	0.00
ATOM	140	HB3	GLU	10	-5.526	14.966	-8.386	1.00	0.00
ATOM	141	CG	GLU	10	-7.626	15.190	-7.941	1.00	0.00
ATOM	142	HG2	GLU	10	-8.233	14.896	-7.085	1.00	0.00
ATOM	143	HG3	GLU	10	-7.920	16.186	-8.270	1.00	0.00
ATOM	144	CD	GLU	10	-7.837	14.194	-9.081	1.00	0.00
ATOM	145	OE1	GLU	10	-7.187	14.342	-10.103	1.00	0.00
ATOM	146	OE2	GLU	10	-8.646	13.295	-8.914	1.00	0.00
ATOM	147	C	GLU	10	-6.343	12.809	-6.882	1.00	0.00
ATOM	148	O	GLU	10	-7.368	12.285	-6.442	1.00	0.00
ATOM	149	N	GLN	11	-5.556	12.230	-7.785	1.00	0.00
ATOM	150	H	GLN	11	-4.745	12.719	-8.135	1.00	0.00
ATOM	151	CA	GLN	11	-5.856	10.910	-8.329	1.00	0.00
ATOM	152	HA	GLN	11	-6.834	10.915	-8.810	1.00	0.00



ATOM	153	CB	GLN	11	-4.799	10.526	-9.371	1.00	0.00
ATOM	154	HB2	GLN	11	-4.657	11.353	-10.066	1.00	0.00
ATOM	155	HB3	GLN	11	-3.856	10.308	-8.868	1.00	0.00
ATOM	156	CG	GLN	11	-5.265	9.286	-10.142	1.00	0.00
ATOM	157	HG2	GLN	11	-5.341	8.435	-9.464	1.00	0.00
ATOM	158	HG3	GLN	11	-6.237	9.476	-10.596	1.00	0.00
ATOM	159	CD	GLN	11	-4.268	8.941	-11.248	1.00	0.00
ATOM	160	OE1	GLN	11	-3.334	9.701	-11.510	1.00	0.00
ATOM	161	NE2	GLN	11	-4.413	7.830	-11.917	1.00	0.00
ATOM	162	HE21	GLN	11	-3.758	7.595	-12.649	1.00	0.00
ATOM	163	HE22	GLN	11	-5.179	7.209	-11.699	1.00	0.00
ATOM	164	C	GLN	11	-5.915	9.850	-7.228	1.00	0.00
ATOM	165	O	GLN	11	-6.690	8.898	-7.320	1.00	0.00
ATOM	166	N	MET	12	-5.084	10.008	-6.196	1.00	0.00
ATOM	167	H	MET	12	-4.440	10.786	-6.170	1.00	0.00
ATOM	168	CA	MET	12	-5.048	9.040	-5.097	1.00	0.00
ATOM	169	HA	MET	12	-4.666	8.084	-5.457	1.00	0.00
ATOM	170	CB	MET	12	-4.134	9.540	-3.976	1.00	0.00
ATOM	171	HB2	MET	12	-4.421	10.553	-3.695	1.00	0.00
ATOM	172	HB3	MET	12	-4.225	8.884	-3.110	1.00	0.00
ATOM	173	CG	MET	12	-2.686	9.538	-4.466	1.00	0.00
ATOM	174	HG2	MET	12	-2.401	8.528	-4.762	1.00	0.00

ATOM	175	HG3 MET	12	-2.587	10.208	-5.320	1.00	0.00
ATOM	176	SD MET	12	-1.593	10.099	-3.141	1.00	0.00
ATOM	177	CE MET	12	-0.145	10.424	-4.175	1.00	0.00
ATOM	178	HE1 MET	12	-0.394	11.176	-4.923	1.00	0.00
ATOM	179	HE2 MET	12	0.673	10.788	-3.552	1.00	0.00
ATOM	180	HE3 MET	12	0.161	9.503	-4.673	1.00	0.00
ATOM	181	C MET	12	-6.445	8.777	-4.540	1.00	0.00
ATOM	182	O MET	12	-6.786	7.633	-4.241	1.00	0.00
ATOM	183	N GLN	13	-7.255	9.828	-4.409	1.00	0.00
ATOM	184	H GLN	13	-6.947	10.760	-4.645	1.00	0.00
ATOM	185	CA GLN	13	-8.612	9.655	-3.896	1.00	0.00
ATOM	186	HA GLN	13	-8.572	9.249	-2.885	1.00	0.00
ATOM	187	CB GLN	13	-9.354	10.995	-3.857	1.00	0.00
ATOM	188	HB2 GLN	13	-9.186	11.525	-4.794	1.00	0.00
ATOM	189	HB3 GLN	13	-10.421	10.811	-3.730	1.00	0.00
ATOM	190	CG GLN	13	-8.841	11.845	-2.690	1.00	0.00
ATOM	191	HG2 GLN	13	-9.471	12.726	-2.574	1.00	0.00
ATOM	192	HG3 GLN	13	-8.859	11.262	-1.769	1.00	0.00
ATOM	193	CD GLN	13	-7.409	12.301	-2.950	1.00	0.00
ATOM	194	OE1 GLN	13	-6.459	11.627	-2.552	1.00	0.00
ATOM	195	NE2 GLN	13	-7.197	13.415	-3.595	1.00	0.00
ATOM	196	HE21 GLN	13	-6.250	13.721	-3.770	1.00	0.00

ATOM	197	HE22	GLN	13	-7.980	13.965	-3.916	1.00	0.00
ATOM	198	C	GLN	13	-9.372	8.680	-4.782	1.00	0.00
ATOM	199	O	GLN	13	-10.042	7.774	-4.291	1.00	0.00
ATOM	200	N	ARG	14	-9.226	8.855	-6.093	1.00	0.00
ATOM	201	H	ARG	14	-8.669	9.623	-6.440	1.00	0.00
ATOM	202	CA	ARG	14	-9.857	7.975	-7.054	1.00	0.00
ATOM	203	HA	ARG	14	-10.940	8.011	-6.935	1.00	0.00
ATOM	204	CB	ARG	14	-9.506	8.408	-8.482	1.00	0.00
ATOM	205	HB2	ARG	14	-9.679	9.479	-8.585	1.00	0.00
ATOM	206	HB3	ARG	14	-8.455	8.190	-8.675	1.00	0.00
ATOM	207	CG	ARG	14	-10.378	7.650	-9.489	1.00	0.00
ATOM	208	HG2	ARG	14	-9.905	7.678	-10.471	1.00	0.00
ATOM	209	HG3	ARG	14	-10.485	6.614	-9.167	1.00	0.00
ATOM	210	CD	ARG	14	-11.759	8.304	-9.569	1.00	0.00
ATOM	211	HD2	ARG	14	-12.415	7.708	-10.204	1.00	0.00
ATOM	212	HD3	ARG	14	-12.191	8.380	-8.571	1.00	0.00
ATOM	213	NE	ARG	14	-11.650	9.646	-10.136	1.00	0.00
ATOM	214	HE	ARG	14	-10.855	9.889	-10.709	1.00	0.00
ATOM	215	CZ	ARG	14	-12.582	10.572	-9.916	1.00	0.00
ATOM	216	NH1	ARG	14	-13.627	10.294	-9.184	1.00	0.00
ATOM	217	HH11	ARG	14	-13.728	9.372	-8.783	1.00	0.00
ATOM	218	HH12	ARG	14	-14.329	11.001	-9.022	1.00	0.00

ATOM	219	NH2	ARG	14	-12.450	11.763	-10.434	1.00	0.00
ATOM	220	HH21	ARG	14	-11.641	11.977	-10.999	1.00	0.00
ATOM	221	HH22	ARG	14	-13.157	12.464	-10.266	1.00	0.00
ATOM	222	C	ARG	14	-9.362	6.569	-6.798	1.00	0.00
ATOM	223	O	ARG	14	-10.132	5.608	-6.805	1.00	0.00
ATOM	224	N	GLN	15	-8.056	6.471	-6.548	1.00	0.00
ATOM	225	H	GLN	15	-7.462	7.287	-6.573	1.00	0.00
ATOM	226	CA	GLN	15	-7.451	5.195	-6.261	1.00	0.00
ATOM	227	HA	GLN	15	-7.834	4.438	-6.945	1.00	0.00
ATOM	228	CB	GLN	15	-5.928	5.282	-6.430	1.00	0.00
ATOM	229	HB2	GLN	15	-5.618	6.326	-6.383	1.00	0.00
ATOM	230	HB3	GLN	15	-5.443	4.723	-5.629	1.00	0.00
ATOM	231	CG	GLN	15	-5.523	4.690	-7.784	1.00	0.00
ATOM	232	HG2	GLN	15	-4.488	4.349	-7.743	1.00	0.00
ATOM	233	HG3	GLN	15	-6.171	3.851	-8.038	1.00	0.00
ATOM	234	CD	GLN	15	-5.645	5.748	-8.876	1.00	0.00
ATOM	235	OE1	GLN	15	-4.638	6.274	-9.347	1.00	0.00
ATOM	236	NE2	GLN	15	-6.828	6.097	-9.305	1.00	0.00
ATOM	237	HE21	GLN	15	-6.913	6.797	-10.028	1.00	0.00
ATOM	238	HE22	GLN	15	-7.652	5.665	-8.912	1.00	0.00
ATOM	239	C	GLN	15	-7.803	4.789	-4.839	1.00	0.00
ATOM	240	O	GLN	15	-6.981	4.873	-3.925	1.00	0.00

ATOM	241	N	GLN	16	-9.034	4.343	-4.674	1.00	0.00
ATOM	242	H	GLN	16	-9.672	4.321	-5.456	1.00	0.00
ATOM	243	CA	GLN	16	-9.523	3.907	-3.372	1.00	0.00
ATOM	244	HA	GLN	16	-9.112	4.539	-2.584	1.00	0.00
ATOM	245	CB	GLN	16	-11.048	4.009	-3.334	1.00	0.00
ATOM	246	HB2	GLN	16	-11.480	3.389	-4.120	1.00	0.00
ATOM	247	HB3	GLN	16	-11.417	3.674	-2.364	1.00	0.00
ATOM	248	CG	GLN	16	-11.450	5.468	-3.556	1.00	0.00
ATOM	249	HG2	GLN	16	-11.020	6.086	-2.767	1.00	0.00
ATOM	250	HG3	GLN	16	-11.081	5.806	-4.524	1.00	0.00
ATOM	251	CD	GLN	16	-12.967	5.629	-3.529	1.00	0.00
ATOM	252	OE1	GLN	16	-13.703	4.641	-3.513	1.00	0.00
ATOM	253	NE2	GLN	16	-13.477	6.830	-3.526	1.00	0.00
ATOM	254	HE21	GLN	16	-14.479	6.949	-3.508	1.00	0.00
ATOM	255	HE22	GLN	16	-12.866	7.634	-3.541	1.00	0.00
ATOM	256	C	GLN	16	-9.073	2.475	-3.111	1.00	0.00
ATOM	257	O	GLN	16	-9.843	1.641	-2.626	1.00	0.00
ATOM	258	N	MET	17	-7.818	2.200	-3.459	1.00	0.00
ATOM	259	H	MET	17	-7.243	2.913	-3.885	1.00	0.00
ATOM	260	CA	MET	17	-7.252	0.867	-3.288	1.00	0.00
ATOM	261	HA	MET	17	-7.890	0.126	-3.770	1.00	0.00
ATOM	262	CB	MET	17	-5.857	0.801	-3.924	1.00	0.00

ATOM	263	HB2 MET	17	-5.701	-0.198	-4.332	1.00	0.00
ATOM	264	HB3 MET	17	-5.800	1.534	-4.728	1.00	0.00
ATOM	265	CG MET	17	-4.776	1.100	-2.884	1.00	0.00
ATOM	266	HG2 MET	17	-5.106	1.901	-2.223	1.00	0.00
ATOM	267	HG3 MET	17	-4.569	0.206	-2.295	1.00	0.00
ATOM	268	SD MET	17	-3.267	1.614	-3.732	1.00	0.00
ATOM	269	CE MET	17	-3.897	3.189	-4.360	1.00	0.00
ATOM	270	HE1 MET	17	-4.200	3.819	-3.524	1.00	0.00
ATOM	271	HE2 MET	17	-3.115	3.692	-4.929	1.00	0.00
ATOM	272	HE3 MET	17	-4.755	3.006	-5.006	1.00	0.00
ATOM	273	C MET	17	-7.170	0.476	-1.821	1.00	0.00
ATOM	274	O MET	17	-7.169	-0.706	-1.493	1.00	0.00
ATOM	275	N LEU	18	-7.088	1.477	-0.953	1.00	0.00
ATOM	276	H LEU	18	-7.073	2.431	-1.284	1.00	0.00
ATOM	277	CA LEU	18	-6.977	1.242	0.484	1.00	0.00
ATOM	278	HA LEU	18	-6.079	0.661	0.697	1.00	0.00
ATOM	279	CB LEU	18	-6.889	2.564	1.230	1.00	0.00
ATOM	280	HB2 LEU	18	-7.810	3.125	1.074	1.00	0.00
ATOM	281	HB3 LEU	18	-6.755	2.375	2.295	1.00	0.00
ATOM	282	CG LEU	18	-5.702	3.376	0.703	1.00	0.00
ATOM	283	HG LEU	18	-4.846	2.716	0.560	1.00	0.00
ATOM	284	CD1 LEU	18	-6.075	4.025	-0.634	1.00	0.00

ATOM	285	HD11	LEU	18	-6.930	4.685	-0.491	1.00	0.00
ATOM	286	HD12	LEU	18	-5.229	4.602	-1.007	1.00	0.00
ATOM	287	HD13	LEU	18	-6.331	3.249	-1.356	1.00	0.00
ATOM	288	CD2	LEU	18	-5.335	4.464	1.717	1.00	0.00
ATOM	289	HD21	LEU	18	-5.064	4.000	2.666	1.00	0.00
ATOM	290	HD22	LEU	18	-4.490	5.041	1.342	1.00	0.00
ATOM	291	HD23	LEU	18	-6.188	5.125	1.867	1.00	0.00
ATOM	292	C	LEU	18	-8.163	0.440	1.002	1.00	0.00
ATOM	293	O	LEU	18	-8.056	-0.223	2.025	1.00	0.00
ATOM	294	N	SER	19	-9.292	0.490	0.299	1.00	0.00
ATOM	295	H	SER	19	-9.370	1.059	-0.532	1.00	0.00
ATOM	296	CA	SER	19	-10.459	-0.274	0.727	1.00	0.00
ATOM	297	HA	SER	19	-10.698	-0.038	1.764	1.00	0.00
ATOM	298	CB	SER	19	-11.667	0.074	-0.146	1.00	0.00
ATOM	299	HB2	SER	19	-11.494	-0.272	-1.165	1.00	0.00
ATOM	300	HB3	SER	19	-12.559	-0.409	0.254	1.00	0.00
ATOM	301	OG	SER	19	-11.852	1.484	-0.149	1.00	0.00
ATOM	302	HG	SER	19	-12.609	1.706	-0.696	1.00	0.00
ATOM	303	C	SER	19	-10.150	-1.766	0.613	1.00	0.00
ATOM	304	O	SER	19	-10.264	-2.524	1.584	1.00	0.00
ATOM	305	N	HIE	20	-9.717	-2.166	-0.581	1.00	0.00
ATOM	306	H	HIE	20	-9.642	-1.502	-1.338	1.00	0.00

ATOM	307	CA	HIE	20	-9.350	-3.554	-0.839	1.00	0.00
ATOM	308	HA	HIE	20	-10.126	-4.220	-0.462	1.00	0.00
ATOM	309	CB	HIE	20	-9.191	-3.791	-2.348	1.00	0.00
ATOM	310	HB2	HIE	20	-8.154	-3.755	-2.681	1.00	0.00
ATOM	311	HB3	HIE	20	-9.633	-4.743	-2.641	1.00	0.00
ATOM	312	CG	HIE	20	-9.926	-2.721	-3.110	1.00	0.00
ATOM	313	ND1	HIE	20	-9.273	-1.832	-3.948	1.00	0.00
ATOM	314	CE1	HIE	20	-10.198	-0.997	-4.454	1.00	0.00
ATOM	315	HE1	HIE	20	-9.851	-0.226	-5.142	1.00	0.00
ATOM	316	NE2	HIE	20	-11.421	-1.280	-4.000	1.00	0.00
ATOM	317	HE2	HIE	20	-12.304	-0.832	-4.198	1.00	0.00
ATOM	318	CD2	HIE	20	-11.252	-2.370	-3.152	1.00	0.00
ATOM	319	HD2	HIE	20	-12.113	-2.805	-2.645	1.00	0.00
ATOM	320	C	HIE	20	-8.039	-3.853	-0.131	1.00	0.00
ATOM	321	O	HIE	20	-7.825	-4.948	0.388	1.00	0.00
ATOM	322	N	CYX	21	-7.172	-2.847	-0.109	1.00	0.00
ATOM	323	H	CYX	21	-7.395	-1.984	-0.583	1.00	0.00
ATOM	324	CA	CYX	21	-5.882	-2.959	0.543	1.00	0.00
ATOM	325	HA	CYX	21	-5.309	-3.786	0.124	1.00	0.00
ATOM	326	CB	CYX	21	-5.101	-1.657	0.317	1.00	0.00
ATOM	327	HB2	CYX	21	-5.790	-0.866	0.024	1.00	0.00
ATOM	328	HB3	CYX	21	-4.593	-1.373	1.239	1.00	0.00



ATOM	329	SG	CYX	21	-3.905	-1.917	-1.018	1.00	0.00
ATOM	330	C	CYX	21	-6.084	-3.238	2.032	1.00	0.00
ATOM	331	O	CYX	21	-5.471	-4.147	2.594	1.00	0.00
ATOM	332	N	ARG	22	-6.984	-2.481	2.653	1.00	0.00
ATOM	333	H	ARG	22	-7.460	-1.739	2.161	1.00	0.00
ATOM	334	CA	ARG	22	-7.300	-2.690	4.059	1.00	0.00
ATOM	335	HA	ARG	22	-6.408	-2.538	4.667	1.00	0.00
ATOM	336	CB	ARG	22	-8.376	-1.699	4.512	1.00	0.00
ATOM	337	HB2	ARG	22	-8.077	-0.690	4.229	1.00	0.00
ATOM	338	HB3	ARG	22	-9.320	-1.948	4.028	1.00	0.00
ATOM	339	CG	ARG	22	-8.548	-1.772	6.032	1.00	0.00
ATOM	340	HG2	ARG	22	-8.767	-2.799	6.325	1.00	0.00
ATOM	341	HG3	ARG	22	-7.629	-1.445	6.519	1.00	0.00
ATOM	342	CD	ARG	22	-9.704	-0.862	6.459	1.00	0.00
ATOM	343	HD2	ARG	22	-10.645	-1.250	6.069	1.00	0.00
ATOM	344	HD3	ARG	22	-9.755	-0.813	7.547	1.00	0.00
ATOM	345	NE	ARG	22	-9.502	0.489	5.938	1.00	0.00
ATOM	346	HE	ARG	22	-8.880	1.126	6.416	1.00	0.00
ATOM	347	CZ	ARG	22	-10.124	0.913	4.835	1.00	0.00
ATOM	348	NH1	ARG	22	-10.953	0.127	4.200	1.00	0.00
ATOM	349	HH11	ARG	22	-11.124	-0.807	4.546	1.00	0.00
ATOM	350	HH12	ARG	22	-11.418	0.456	3.367	1.00	0.00

ATOM	351	NH2 ARG	22	-9.903	2.118	4.386	1.00	0.00
ATOM	352	HH21 ARG	22	-9.261	2.726	4.875	1.00	0.00
ATOM	353	HH22 ARG	22	-10.374	2.437	3.552	1.00	0.00
ATOM	354	C ARG	22	-7.797	-4.116	4.230	1.00	0.00
ATOM	355	O ARG	22	-7.367	-4.843	5.133	1.00	0.00
ATOM	356	N MET	23	-8.688	-4.522	3.319	1.00	0.00
ATOM	357	H MET	23	-9.024	-3.892	2.606	1.00	0.00
ATOM	358	CA MET	23	-9.212	-5.877	3.344	1.00	0.00
ATOM	359	HA MET	23	-9.762	-6.045	4.270	1.00	0.00
ATOM	360	CB MET	23	-10.162	-6.102	2.161	1.00	0.00
ATOM	361	HB2 MET	23	-10.915	-5.314	2.148	1.00	0.00
ATOM	362	HB3 MET	23	-9.593	-6.076	1.232	1.00	0.00
ATOM	363	CG MET	23	-10.850	-7.462	2.300	1.00	0.00
ATOM	364	HG2 MET	23	-10.099	-8.248	2.385	1.00	0.00
ATOM	365	HG3 MET	23	-11.481	-7.467	3.189	1.00	0.00
ATOM	366	SD MET	23	-11.875	-7.772	0.840	1.00	0.00
ATOM	367	CE MET	23	-10.528	-8.097	-0.326	1.00	0.00
ATOM	368	HE1 MET	23	-9.945	-8.951	0.020	1.00	0.00
ATOM	369	HE2 MET	23	-10.943	-8.316	-1.310	1.00	0.00
ATOM	370	HE3 MET	23	-9.883	-7.221	-0.391	1.00	0.00
ATOM	371	C MET	23	-8.047	-6.857	3.275	1.00	0.00
ATOM	372	O MET	23	-8.047	-7.885	3.949	1.00	0.00

ATOM	373	N	TYR	24	-7.045	-6.508	2.464	1.00	0.00
ATOM	374	H	TYR	24	-7.119	-5.675	1.898	1.00	0.00
ATOM	375	CA	TYR	24	-5.854	-7.338	2.321	1.00	0.00
ATOM	376	HA	TYR	24	-6.130	-8.335	1.976	1.00	0.00
ATOM	377	CB	TYR	24	-4.896	-6.707	1.289	1.00	0.00
ATOM	378	HB2	TYR	24	-4.888	-7.322	0.389	1.00	0.00
ATOM	379	HB3	TYR	24	-5.275	-5.714	1.048	1.00	0.00
ATOM	380	CG	TYR	24	-3.483	-6.590	1.833	1.00	0.00
ATOM	381	CD1	TYR	24	-2.786	-7.732	2.244	1.00	0.00
ATOM	382	HD1	TYR	24	-3.260	-8.712	2.183	1.00	0.00
ATOM	383	CE1	TYR	24	-1.479	-7.616	2.734	1.00	0.00
ATOM	384	HE1	TYR	24	-0.939	-8.505	3.062	1.00	0.00
ATOM	385	CZ	TYR	24	-0.868	-6.359	2.807	1.00	0.00
ATOM	386	OH	TYR	24	0.422	-6.245	3.283	1.00	0.00
ATOM	387	HH	TYR	24	0.805	-7.089	3.536	1.00	0.00
ATOM	388	CE2	TYR	24	-1.562	-5.219	2.394	1.00	0.00
ATOM	389	HE2	TYR	24	-1.085	-4.241	2.451	1.00	0.00
ATOM	390	CD2	TYR	24	-2.869	-5.333	1.907	1.00	0.00
ATOM	391	HD2	TYR	24	-3.410	-4.444	1.585	1.00	0.00
ATOM	392	C	TYR	24	-5.178	-7.509	3.679	1.00	0.00
ATOM	393	O	TYR	24	-4.772	-8.609	4.043	1.00	0.00
ATOM	394	N	MET	25	-5.072	-6.417	4.435	1.00	0.00

ATOM	395	H	MET	25	-5.413	-5.523	4.114	1.00	0.00
ATOM	396	CA	MET	25	-4.458	-6.489	5.758	1.00	0.00
ATOM	397	HA	MET	25	-3.409	-6.773	5.668	1.00	0.00
ATOM	398	CB	MET	25	-4.538	-5.127	6.449	1.00	0.00
ATOM	399	HB2	MET	25	-5.584	-4.853	6.583	1.00	0.00
ATOM	400	HB3	MET	25	-4.052	-5.189	7.423	1.00	0.00
ATOM	401	CG	MET	25	-3.836	-4.064	5.594	1.00	0.00
ATOM	402	HG2	MET	25	-4.252	-4.072	4.587	1.00	0.00
ATOM	403	HG3	MET	25	-3.983	-3.081	6.041	1.00	0.00
ATOM	404	SD	MET	25	-2.064	-4.419	5.507	1.00	0.00
ATOM	405	CE	MET	25	-1.656	-3.971	7.212	1.00	0.00
ATOM	406	HE1	MET	25	-2.221	-4.601	7.899	1.00	0.00
ATOM	407	HE2	MET	25	-0.589	-4.117	7.381	1.00	0.00
ATOM	408	HE3	MET	25	-1.911	-2.926	7.385	1.00	0.00
ATOM	409	C	MET	25	-5.203	-7.523	6.597	1.00	0.00
ATOM	410	O	MET	25	-4.605	-8.441	7.178	1.00	0.00
ATOM	411	N	ARG	26	-6.528	-7.389	6.625	1.00	0.00
ATOM	412	H	ARG	26	-6.982	-6.621	6.153	1.00	0.00
ATOM	413	CA	ARG	26	-7.355	-8.334	7.358	1.00	0.00
ATOM	414	HA	ARG	26	-7.079	-8.330	8.413	1.00	0.00
ATOM	415	CB	ARG	26	-8.834	-7.946	7.236	1.00	0.00
ATOM	416	HB2	ARG	26	-8.965	-6.918	7.572	1.00	0.00

ATOM	417	HB3 ARG	26	-9.143	-8.030	6.194	1.00	0.00
ATOM	418	CG ARG	26	-9.691	-8.878	8.100	1.00	0.00
ATOM	419	HG2 ARG	26	-10.743	-8.725	7.860	1.00	0.00
ATOM	420	HG3 ARG	26	-9.418	-9.913	7.892	1.00	0.00
ATOM	421	CD ARG	26	-9.457	-8.577	9.583	1.00	0.00
ATOM	422	HD2 ARG	26	-8.395	-8.656	9.816	1.00	0.00
ATOM	423	HD3 ARG	26	-9.806	-7.572	9.818	1.00	0.00
ATOM	424	NE ARG	26	-10.189	-9.533	10.411	1.00	0.00
ATOM	425	HE ARG	26	-11.098	-9.862	10.118	1.00	0.00
ATOM	426	CZ ARG	26	-9.686	-9.991	11.558	1.00	0.00
ATOM	427	NH1 ARG	26	-8.518	-9.585	11.977	1.00	0.00
ATOM	428	HH11 ARG	26	-7.991	-8.920	11.429	1.00	0.00
ATOM	429	HH12 ARG	26	-8.146	-9.939	12.847	1.00	0.00
ATOM	430	NH2 ARG	26	-10.367	-10.850	12.265	1.00	0.00
ATOM	431	HH21 ARG	26	-11.270	-11.164	11.940	1.00	0.00
ATOM	432	HH22 ARG	26	-9.987	-11.198	13.134	1.00	0.00
ATOM	433	C ARG	26	-7.121	-9.727	6.788	1.00	0.00
ATOM	434	O ARG	26	-7.012	-10.714	7.523	1.00	0.00
ATOM	435	N GLN	27	-7.004	-9.787	5.466	1.00	0.00
ATOM	436	H GLN	27	-7.128	-8.959	4.901	1.00	0.00
ATOM	437	CA GLN	27	-6.739	-11.040	4.796	1.00	0.00
ATOM	438	HA GLN	27	-7.533	-11.752	5.021	1.00	0.00

ATOM	439	CB	GLN	27	-6.676	-10.840	3.274	1.00	0.00
ATOM	440	HB2	GLN	27	-7.654	-10.523	2.914	1.00	0.00
ATOM	441	HB3	GLN	27	-5.937	-10.072	3.044	1.00	0.00
ATOM	442	CG	GLN	27	-6.279	-12.154	2.586	1.00	0.00
ATOM	443	HG2	GLN	27	-6.395	-12.048	1.508	1.00	0.00
ATOM	444	HG3	GLN	27	-5.243	-12.404	2.817	1.00	0.00
ATOM	445	CD	GLN	27	-7.172	-13.294	3.062	1.00	0.00
ATOM	446	OE1	GLN	27	-8.014	-13.786	2.311	1.00	0.00
ATOM	447	NE2	GLN	27	-7.039	-13.735	4.282	1.00	0.00
ATOM	448	HE21	GLN	27	-7.624	-14.490	4.610	1.00	0.00
ATOM	449	HE22	GLN	27	-6.351	-13.320	4.894	1.00	0.00
ATOM	450	C	GLN	27	-5.432	-11.611	5.316	1.00	0.00
ATOM	451	O	GLN	27	-5.298	-12.809	5.514	1.00	0.00
ATOM	452	N	GLN	28	-4.467	-10.749	5.572	1.00	0.00
ATOM	453	H	GLN	28	-4.576	-9.757	5.420	1.00	0.00
ATOM	454	CA	GLN	28	-3.212	-11.225	6.085	1.00	0.00
ATOM	455	HA	GLN	28	-2.748	-11.910	5.375	1.00	0.00
ATOM	456	CB	GLN	28	-2.283	-10.056	6.306	1.00	0.00
ATOM	457	HB2	GLN	28	-2.230	-9.465	5.392	1.00	0.00
ATOM	458	HB3	GLN	28	-2.672	-9.439	7.116	1.00	0.00
ATOM	459	CG	GLN	28	-0.881	-10.555	6.673	1.00	0.00
ATOM	460	HG2	GLN	28	-0.641	-11.446	6.093	1.00	0.00

ATOM	461	HG3	GLN	28	-0.145	-9.778	6.466	1.00	0.00
ATOM	462	CD	GLN	28	-0.814	-10.907	8.157	1.00	0.00
ATOM	463	OE1	GLN	28	-0.376	-12.082	8.519	1.00	0.00
ATOM	464	NE2	GLN	28	-1.170	-10.091	9.008	1.00	0.00
ATOM	465	HE21	GLN	28	-1.121	-10.334	9.988	1.00	0.00
ATOM	466	HE22	GLN	28	-1.508	-9.184	8.723	1.00	0.00
ATOM	467	C	GLN	28	-3.454	-11.942	7.402	1.00	0.00
ATOM	468	O	GLN	28	-2.847	-12.978	7.678	1.00	0.00
ATOM	469	N	MET	29	-4.359	-11.386	8.210	1.00	0.00
ATOM	470	H	MET	29	-4.823	-10.525	7.961	1.00	0.00
ATOM	471	CA	MET	29	-4.680	-11.999	9.496	1.00	0.00
ATOM	472	HA	MET	29	-3.780	-12.063	10.109	1.00	0.00
ATOM	473	CB	MET	29	-5.724	-11.164	10.245	1.00	0.00
ATOM	474	HB2	MET	29	-6.535	-10.904	9.566	1.00	0.00
ATOM	475	HB3	MET	29	-6.120	-11.743	11.079	1.00	0.00
ATOM	476	CG	MET	29	-5.075	-9.885	10.776	1.00	0.00
ATOM	477	HG2	MET	29	-4.695	-9.289	9.947	1.00	0.00
ATOM	478	HG3	MET	29	-5.806	-9.303	11.337	1.00	0.00
ATOM	479	SD	MET	29	-3.702	-10.327	11.869	1.00	0.00
ATOM	480	CE	MET	29	-4.662	-11.278	13.076	1.00	0.00
ATOM	481	HE1	MET	29	-5.144	-12.118	12.577	1.00	0.00
ATOM	482	HE2	MET	29	-3.998	-11.652	13.856	1.00	0.00

ATOM	483	HE3	MET	29	-5.421	-10.637	13.524	1.00	0.00
ATOM	484	C	MET	29	-5.211	-13.414	9.291	1.00	0.00
ATOM	485	O	MET	29	-4.666	-14.370	9.840	1.00	0.00
ATOM	486	N	GLU	30	-6.264	-13.551	8.485	1.00	0.00
ATOM	487	H	GLU	30	-6.710	-12.750	8.063	1.00	0.00
ATOM	488	CA	GLU	30	-6.822	-14.878	8.217	1.00	0.00
ATOM	489	HA	GLU	30	-7.029	-15.388	9.158	1.00	0.00
ATOM	490	CB	GLU	30	-8.128	-14.763	7.424	1.00	0.00
ATOM	491	HB2	GLU	30	-7.962	-14.145	6.542	1.00	0.00
ATOM	492	HB3	GLU	30	-8.451	-15.757	7.115	1.00	0.00
ATOM	493	CG	GLU	30	-9.210	-14.124	8.299	1.00	0.00
ATOM	494	HG2	GLU	30	-10.191	-14.475	7.980	1.00	0.00
ATOM	495	HG3	GLU	30	-9.040	-14.415	9.336	1.00	0.00
ATOM	496	CD	GLU	30	-9.151	-12.605	8.182	1.00	0.00
ATOM	497	OE1	GLU	30	-9.292	-12.110	7.075	1.00	0.00
ATOM	498	OE2	GLU	30	-8.974	-11.958	9.202	1.00	0.00
ATOM	499	C	GLU	30	-5.823	-15.730	7.435	1.00	0.00
ATOM	500	O	GLU	30	-5.640	-16.915	7.712	1.00	0.00
ATOM	501	N	GLU	31	-5.189	-15.100	6.448	1.00	0.00
ATOM	502	H	GLU	31	-5.410	-14.134	6.257	1.00	0.00
ATOM	503	CA	GLU	31	-4.207	-15.768	5.596	1.00	0.00
ATOM	504	HA	GLU	31	-4.617	-16.700	5.206	1.00	0.00



ATOM	505	CB	GLU	31	-3.847	-14.859	4.415	1.00	0.00
ATOM	506	HB2	GLU	31	-4.755	-14.398	4.028	1.00	0.00
ATOM	507	HB3	GLU	31	-3.163	-14.082	4.756	1.00	0.00
ATOM	508	CG	GLU	31	-3.176	-15.679	3.305	1.00	0.00
ATOM	509	HG2	GLU	31	-2.318	-16.205	3.723	1.00	0.00
ATOM	510	HG3	GLU	31	-3.893	-16.404	2.919	1.00	0.00
ATOM	511	CD	GLU	31	-2.710	-14.767	2.167	1.00	0.00
ATOM	512	OE1	GLU	31	-2.851	-13.559	2.293	1.00	0.00
ATOM	513	OE2	GLU	31	-2.216	-15.293	1.182	1.00	0.00
ATOM	514	C	GLU	31	-2.942	-16.132	6.381	1.00	0.00
ATOM	515	O	GLU	31	-2.036	-16.758	5.839	1.00	0.00
ATOM	516	N	SER	32	-2.881	-15.726	7.651	1.00	0.00
ATOM	517	H	SER	32	-3.641	-15.193	8.049	1.00	0.00
ATOM	518	CA	SER	32	-1.713	-16.005	8.493	1.00	0.00
ATOM	519	HA	SER	32	-0.886	-15.353	8.212	1.00	0.00
ATOM	520	CB	SER	32	-2.054	-15.756	9.962	1.00	0.00
ATOM	521	HB2	SER	32	-1.170	-15.931	10.576	1.00	0.00
ATOM	522	HB3	SER	32	-2.386	-14.726	10.090	1.00	0.00
ATOM	523	OG	SER	32	-3.092	-16.642	10.362	1.00	0.00
ATOM	524	HG	SER	32	-3.307	-16.487	11.285	1.00	0.00
ATOM	525	C	SER	32	-1.244	-17.446	8.312	1.00	0.00
ATOM	526	O	SER	32	-0.086	-17.768	8.577	1.00	0.00

ATOM	527	N	THR	33	-2.152	-18.304	7.860	1.00	0.00
ATOM	528	H	THR	33	-3.101	-18.000	7.698	1.00	0.00
ATOM	529	CA	THR	33	-1.824	-19.702	7.617	1.00	0.00
ATOM	530	HA	THR	33	-1.192	-20.087	8.418	1.00	0.00
ATOM	531	CB	THR	33	-3.111	-20.533	7.567	1.00	0.00
ATOM	532	HB	THR	33	-2.867	-21.564	7.308	1.00	0.00
ATOM	533	CG2	THR	33	-3.799	-20.500	8.934	1.00	0.00
ATOM	534	HG21	THR	33	-4.044	-19.470	9.194	1.00	0.00
ATOM	535	HG22	THR	33	-4.713	-21.092	8.896	1.00	0.00
ATOM	536	HG23	THR	33	-3.130	-20.915	9.688	1.00	0.00
ATOM	537	OG1	THR	33	-3.985	-19.993	6.584	1.00	0.00
ATOM	538	HG1	THR	33	-4.791	-20.513	6.553	1.00	0.00
ATOM	539	C	THR	33	-1.047	-19.876	6.300	1.00	0.00
ATOM	540	O	THR	33	0.060	-20.414	6.285	1.00	0.00
ATOM	541	N	TYR	34	-1.676	-19.455	5.193	1.00	0.00
ATOM	542	H	TYR	34	-2.598	-19.052	5.277	1.00	0.00
ATOM	543	CA	TYR	34	-1.096	-19.598	3.846	1.00	0.00
ATOM	544	HA	TYR	34	-0.309	-20.353	3.849	1.00	0.00
ATOM	545	CB	TYR	34	-2.191	-20.036	2.869	1.00	0.00
ATOM	546	HB2	TYR	34	-2.960	-19.266	2.813	1.00	0.00
ATOM	547	HB3	TYR	34	-1.754	-20.185	1.882	1.00	0.00
ATOM	548	CG	TYR	34	-2.808	-21.330	3.347	1.00	0.00

ATOM	549	CD1 TYR	34	-2.130	-22.541	3.160	1.00	0.00
ATOM	550	HD1 TYR	34	-1.157	-22.551	2.668	1.00	0.00
ATOM	551	CE1 TYR	34	-2.701	-23.739	3.605	1.00	0.00
ATOM	552	HE1 TYR	34	-2.173	-24.682	3.459	1.00	0.00
ATOM	553	CZ TYR	34	-3.950	-23.727	4.238	1.00	0.00
ATOM	554	OH TYR	34	-4.512	-24.908	4.676	1.00	0.00
ATOM	555	HH TYR	34	-3.962	-25.675	4.496	1.00	0.00
ATOM	556	CE2 TYR	34	-4.627	-22.516	4.425	1.00	0.00
ATOM	557	HE2 TYR	34	-5.599	-22.507	4.918	1.00	0.00
ATOM	558	CD2 TYR	34	-4.057	-21.319	3.981	1.00	0.00
ATOM	559	HD2 TYR	34	-4.584	-20.377	4.128	1.00	0.00
ATOM	560	C TYR	34	-0.431	-18.320	3.305	1.00	0.00
ATOM	561	O TYR	34	-0.047	-18.288	2.135	1.00	0.00
ATOM	562	N GLN	35	-0.341	-17.266	4.119	1.00	0.00
ATOM	563	H GLN	35	-0.696	-17.322	5.063	1.00	0.00
ATOM	564	CA GLN	35	0.239	-15.986	3.664	1.00	0.00
ATOM	565	HA GLN	35	-0.531	-15.401	3.163	1.00	0.00
ATOM	566	CB GLN	35	0.791	-15.167	4.837	1.00	0.00
ATOM	567	HB2 GLN	35	0.996	-14.153	4.495	1.00	0.00
ATOM	568	HB3 GLN	35	0.045	-15.139	5.632	1.00	0.00
ATOM	569	CG GLN	35	2.086	-15.797	5.373	1.00	0.00
ATOM	570	HG2 GLN	35	2.806	-15.925	4.564	1.00	0.00

ATOM	571	HG3	GLN	35	2.516	-15.156	6.143	1.00	0.00
ATOM	572	CD	GLN	35	1.794	-17.160	5.983	1.00	0.00
ATOM	573	OE1	GLN	35	0.591	-17.418	6.400	1.00	0.00
ATOM	574	NE2	GLN	35	2.680	-18.008	6.076	1.00	0.00
ATOM	575	HE21	GLN	35	2.472	-18.909	6.483	1.00	0.00
ATOM	576	HE22	GLN	35	3.611	-17.800	5.745	1.00	0.00
ATOM	577	C	GLN	35	1.363	-16.169	2.655	1.00	0.00
ATOM	578	O	GLN	35	1.555	-15.313	1.790	1.00	0.00
ATOM	579	N	THR	36	2.111	-17.263	2.757	1.00	0.00
ATOM	580	H	THR	36	1.956	-17.956	3.475	1.00	0.00
ATOM	581	CA	THR	36	3.201	-17.473	1.822	1.00	0.00
ATOM	582	HA	THR	36	3.924	-16.661	1.901	1.00	0.00
ATOM	583	CB	THR	36	3.913	-18.794	2.132	1.00	0.00
ATOM	584	HB	THR	36	3.237	-19.625	1.930	1.00	0.00
ATOM	585	CG2	THR	36	5.161	-18.927	1.255	1.00	0.00
ATOM	586	HG21	THR	36	5.838	-18.097	1.457	1.00	0.00
ATOM	587	HG22	THR	36	5.665	-19.868	1.479	1.00	0.00
ATOM	588	HG23	THR	36	4.871	-18.912	0.205	1.00	0.00
ATOM	589	OG1	THR	36	4.291	-18.814	3.501	1.00	0.00
ATOM	590	HG1	THR	36	4.738	-19.641	3.698	1.00	0.00
ATOM	591	C	THR	36	2.639	-17.502	0.407	1.00	0.00
ATOM	592	O	THR	36	1.979	-18.459	0.003	1.00	0.00

ATOM	593	N	MET	37	2.899	-16.426	-0.327	1.00	0.00
ATOM	594	H	MET	37	3.428	-15.661	0.067	1.00	0.00
ATOM	595	CA	MET	37	2.412	-16.297	-1.697	1.00	0.00
ATOM	596	HA	MET	37	1.326	-16.381	-1.719	1.00	0.00
ATOM	597	CB	MET	37	2.809	-14.929	-2.259	1.00	0.00
ATOM	598	HB2	MET	37	3.886	-14.793	-2.154	1.00	0.00
ATOM	599	HB3	MET	37	2.538	-14.878	-3.313	1.00	0.00
ATOM	600	CG	MET	37	2.077	-13.824	-1.490	1.00	0.00
ATOM	601	HG2	MET	37	2.090	-14.048	-0.423	1.00	0.00
ATOM	602	HG3	MET	37	2.568	-12.867	-1.665	1.00	0.00
ATOM	603	SD	MET	37	0.360	-13.726	-2.058	1.00	0.00
ATOM	604	CE	MET	37	0.640	-12.597	-3.444	1.00	0.00
ATOM	605	HE1	MET	37	1.336	-13.052	-4.149	1.00	0.00
ATOM	606	HE2	MET	37	-0.306	-12.396	-3.946	1.00	0.00
ATOM	607	HE3	MET	37	1.059	-11.662	-3.072	1.00	0.00
ATOM	608	C	MET	37	2.976	-17.402	-2.590	1.00	0.00
ATOM	609	O	MET	37	4.182	-17.458	-2.831	1.00	0.00
ATOM	610	N	PRO	38	2.128	-18.269	-3.092	1.00	0.00
ATOM	611	CD	PRO	38	0.671	-18.287	-2.864	1.00	0.00
ATOM	612	HD2	PRO	38	0.234	-17.385	-3.290	1.00	0.00
ATOM	613	HD3	PRO	38	0.480	-18.312	-1.791	1.00	0.00
ATOM	614	CG	PRO	38	0.197	-19.563	-3.572	1.00	0.00

ATOM	615	HG2 PRO	38	-0.311	-19.288	-4.496	1.00	0.00
ATOM	616	HG3 PRO	38	-0.497	-20.094	-2.920	1.00	0.00
ATOM	617	CB PRO	38	1.412	-20.389	-3.842	1.00	0.00
ATOM	618	HB2 PRO	38	1.261	-20.916	-4.784	1.00	0.00
ATOM	619	HB3 PRO	38	1.651	-21.109	-3.059	1.00	0.00
ATOM	620	CA PRO	38	2.548	-19.381	-3.987	1.00	0.00
ATOM	621	HA PRO	38	3.508	-19.762	-3.638	1.00	0.00
ATOM	622	C PRO	38	2.682	-18.915	-5.434	1.00	0.00
ATOM	623	O PRO	38	1.916	-18.066	-5.892	1.00	0.00
ATOM	624	N ARG	39	3.652	-19.475	-6.150	1.00	0.00
ATOM	625	H ARG	39	4.248	-20.186	-5.750	1.00	0.00
ATOM	626	CA ARG	39	3.861	-19.101	-7.546	1.00	0.00
ATOM	627	HA ARG	39	4.080	-18.036	-7.613	1.00	0.00
ATOM	628	CB ARG	39	5.031	-19.877	-8.139	1.00	0.00
ATOM	629	HB2 ARG	39	4.765	-20.932	-8.207	1.00	0.00
ATOM	630	HB3 ARG	39	5.250	-19.493	-9.135	1.00	0.00
ATOM	631	CG ARG	39	6.268	-19.720	-7.249	1.00	0.00
ATOM	632	HG2 ARG	39	6.489	-18.661	-7.118	1.00	0.00
ATOM	633	HG3 ARG	39	6.076	-20.174	-6.276	1.00	0.00
ATOM	634	CD ARG	39	7.464	-20.413	-7.907	1.00	0.00
ATOM	635	HD2 ARG	39	7.197	-21.435	-8.177	1.00	0.00
ATOM	636	HD3 ARG	39	7.762	-19.867	-8.802	1.00	0.00

ATOM	637	NE	ARG	39	8.596	-20.454	-6.986	1.00	0.00
ATOM	638	HE	ARG	39	9.360	-19.802	-7.093	1.00	0.00
ATOM	639	CZ	ARG	39	8.652	-21.341	-5.992	1.00	0.00
ATOM	640	NH1	ARG	39	7.682	-22.198	-5.821	1.00	0.00
ATOM	641	HH11	ARG	39	6.888	-22.188	-6.444	1.00	0.00
ATOM	642	HH12	ARG	39	7.731	-22.867	-5.066	1.00	0.00
ATOM	643	NH2	ARG	39	9.680	-21.351	-5.188	1.00	0.00
ATOM	644	HH21	ARG	39	10.429	-20.687	-5.322	1.00	0.00
ATOM	645	HH22	ARG	39	9.722	-22.023	-4.435	1.00	0.00
ATOM	646	C	ARG	39	2.629	-19.442	-8.360	1.00	0.00
ATOM	647	O	ARG	39	2.227	-18.691	-9.249	1.00	0.00
ATOM	648	N	ARG	40	2.039	-20.596	-8.053	1.00	0.00
ATOM	649	H	ARG	40	2.417	-21.196	-7.333	1.00	0.00
ATOM	650	CA	ARG	40	0.862	-21.042	-8.770	1.00	0.00
ATOM	651	HA	ARG	40	1.031	-20.966	-9.844	1.00	0.00
ATOM	652	CB	ARG	40	0.551	-22.500	-8.427	1.00	0.00
ATOM	653	HB2	ARG	40	0.533	-22.623	-7.344	1.00	0.00
ATOM	654	HB3	ARG	40	-0.420	-22.772	-8.839	1.00	0.00
ATOM	655	CG	ARG	40	1.630	-23.406	-9.025	1.00	0.00
ATOM	656	HG2	ARG	40	2.612	-22.979	-8.822	1.00	0.00
ATOM	657	HG3	ARG	40	1.564	-24.394	-8.569	1.00	0.00
ATOM	658	CD	ARG	40	1.429	-23.528	-10.540	1.00	0.00

ATOM	659	HD2	ARG	40	1.443	-22.538	-10.995	1.00	0.00
ATOM	660	HD3	ARG	40	2.225	-24.136	-10.970	1.00	0.00
ATOM	661	NE	ARG	40	0.146	-24.161	-10.834	1.00	0.00
ATOM	662	HE	ARG	40	-0.647	-23.595	-11.097	1.00	0.00
ATOM	663	CZ	ARG	40	-0.011	-25.482	-10.764	1.00	0.00
ATOM	664	NH1	ARG	40	0.991	-26.247	-10.422	1.00	0.00
ATOM	665	HH11	ARG	40	1.888	-25.835	-10.210	1.00	0.00
ATOM	666	HH12	ARG	40	0.864	-27.248	-10.371	1.00	0.00
ATOM	667	NH2	ARG	40	-1.171	-26.014	-11.038	1.00	0.00
ATOM	668	HH21	ARG	40	-1.945	-25.422	-11.302	1.00	0.00
ATOM	669	HH22	ARG	40	-1.289	-27.016	-10.984	1.00	0.00
ATOM	670	C	ARG	40	-0.323	-20.164	-8.429	1.00	0.00
ATOM	671	O	ARG	40	-0.969	-20.327	-7.392	1.00	0.00
ATOM	672	N	GLY	41	-0.592	-19.240	-9.330	1.00	0.00
ATOM	673	H	GLY	41	-0.017	-19.164	-10.157	1.00	0.00
ATOM	674	CA	GLY	41	-1.708	-18.309	-9.173	1.00	0.00
ATOM	675	HA2	GLY	41	-1.645	-17.548	-9.950	1.00	0.00
ATOM	676	HA3	GLY	41	-2.643	-18.858	-9.278	1.00	0.00
ATOM	677	C	GLY	41	-1.682	-17.628	-7.807	1.00	0.00
ATOM	678	O	GLY	41	-2.338	-18.080	-6.867	1.00	0.00
ATOM	679	N	MET	42	-0.926	-16.535	-7.707	1.00	0.00
ATOM	680	H	MET	42	-0.393	-16.210	-8.501	1.00	0.00



ATOM	681	CA	MET	42	-0.823	-15.791	-6.451	1.00	0.00
ATOM	682	HA	MET	42	-0.377	-16.419	-5.679	1.00	0.00
ATOM	683	CB	MET	42	0.062	-14.556	-6.649	1.00	0.00
ATOM	684	HB2	MET	42	-0.312	-13.973	-7.490	1.00	0.00
ATOM	685	HB3	MET	42	0.040	-13.946	-5.746	1.00	0.00
ATOM	686	CG	MET	42	1.501	-14.994	-6.933	1.00	0.00
ATOM	687	HG2	MET	42	1.859	-15.633	-6.125	1.00	0.00
ATOM	688	HG3	MET	42	1.541	-15.543	-7.874	1.00	0.00
ATOM	689	SD	MET	42	2.563	-13.534	-7.051	1.00	0.00
ATOM	690	CE	MET	42	4.090	-14.397	-7.498	1.00	0.00
ATOM	691	HE1	MET	42	3.942	-14.939	-8.432	1.00	0.00
ATOM	692	HE2	MET	42	4.895	-13.672	-7.623	1.00	0.00
ATOM	693	HE3	MET	42	4.355	-15.101	-6.708	1.00	0.00
ATOM	694	C	MET	42	-2.206	-15.357	-5.966	1.00	0.00
ATOM	695	O	MET	42	-3.199	-15.503	-6.680	1.00	0.00
ATOM	696	N	GLU	43	-2.264	-14.825	-4.746	1.00	0.00
ATOM	697	H	GLU	43	-1.430	-14.738	-4.182	1.00	0.00
ATOM	698	CA	GLU	43	-3.534	-14.380	-4.178	1.00	0.00
ATOM	699	HA	GLU	43	-4.282	-15.167	-4.274	1.00	0.00
ATOM	700	CB	GLU	43	-3.357	-14.052	-2.691	1.00	0.00
ATOM	701	HB2	GLU	43	-2.760	-14.831	-2.216	1.00	0.00
ATOM	702	HB3	GLU	43	-2.849	-13.093	-2.588	1.00	0.00

ATOM	703	CG	GLU	43	-4.730	-13.978	-2.015	1.00	0.00
ATOM	704	HG2	GLU	43	-5.312	-13.172	-2.460	1.00	0.00
ATOM	705	HG3	GLU	43	-5.247	-14.926	-2.167	1.00	0.00
ATOM	706	CD	GLU	43	-4.568	-13.722	-0.518	1.00	0.00
ATOM	707	OE1	GLU	43	-4.045	-12.678	-0.168	1.00	0.00
ATOM	708	OE2	GLU	43	-4.978	-14.571	0.257	1.00	0.00
ATOM	709	C	GLU	43	-4.050	-13.146	-4.921	1.00	0.00
ATOM	710	O	GLU	43	-3.326	-12.163	-5.081	1.00	0.00
ATOM	711	N	PRO	44	-5.280	-13.187	-5.380	1.00	0.00
ATOM	712	CD	PRO	44	-6.212	-14.317	-5.230	1.00	0.00
ATOM	713	HD2	PRO	44	-6.204	-14.653	-4.193	1.00	0.00
ATOM	714	HD3	PRO	44	-5.892	-15.134	-5.878	1.00	0.00
ATOM	715	CG	PRO	44	-7.560	-13.736	-5.648	1.00	0.00
ATOM	716	HG2	PRO	44	-8.097	-13.404	-4.760	1.00	0.00
ATOM	717	HG3	PRO	44	-8.140	-14.507	-6.156	1.00	0.00
ATOM	718	CB	PRO	44	-7.268	-12.597	-6.566	1.00	0.00
ATOM	719	HB2	PRO	44	-8.030	-11.828	-6.439	1.00	0.00
ATOM	720	HB3	PRO	44	-7.230	-12.903	-7.611	1.00	0.00
ATOM	721	CA	PRO	44	-5.902	-12.053	-6.131	1.00	0.00
ATOM	722	HA	PRO	44	-5.265	-11.828	-6.986	1.00	0.00
ATOM	723	C	PRO	44	-6.064	-10.800	-5.273	1.00	0.00
ATOM	724	O	PRO	44	-6.116	-9.686	-5.798	1.00	0.00

ATOM	725	N	HIE	45	-6.148	-10.987	-3.958	1.00	0.00
ATOM	726	H	HIE	45	-6.120	-11.918	-3.568	1.00	0.00
ATOM	727	CA	HIE	45	-6.310	-9.858	-3.045	1.00	0.00
ATOM	728	HA	HIE	45	-7.283	-9.393	-3.198	1.00	0.00
ATOM	729	CB	HIE	45	-6.219	-10.336	-1.593	1.00	0.00
ATOM	730	HB2	HIE	45	-5.301	-10.890	-1.396	1.00	0.00
ATOM	731	HB3	HIE	45	-6.304	-9.512	-0.885	1.00	0.00
ATOM	732	CG	HIE	45	-7.359	-11.274	-1.301	1.00	0.00
ATOM	733	ND1	HIE	45	-7.153	-12.584	-0.899	1.00	0.00
ATOM	734	CE1	HIE	45	-8.361	-13.150	-0.726	1.00	0.00
ATOM	735	HE1	HIE	45	-8.383	-14.192	-0.407	1.00	0.00
ATOM	736	NE2	HIE	45	-9.351	-12.293	-0.988	1.00	0.00
ATOM	737	HE2	HIE	45	-10.351	-12.429	-0.946	1.00	0.00
ATOM	738	CD2	HIE	45	-8.721	-11.108	-1.351	1.00	0.00
ATOM	739	HD2	HIE	45	-9.315	-10.235	-1.618	1.00	0.00
ATOM	740	C	HIE	45	-5.238	-8.802	-3.304	1.00	0.00
ATOM	741	O	HIE	45	-5.536	-7.608	-3.375	1.00	0.00
ATOM	742	N	MET	46	-3.994	-9.251	-3.455	1.00	0.00
ATOM	743	H	MET	46	-3.791	-10.238	-3.387	1.00	0.00
ATOM	744	CA	MET	46	-2.889	-8.334	-3.717	1.00	0.00
ATOM	745	HA	MET	46	-2.860	-7.557	-2.953	1.00	0.00
ATOM	746	CB	MET	46	-1.558	-9.094	-3.692	1.00	0.00

ATOM	747	HB2 MET	46	-1.531	-9.794	-4.527	1.00	0.00
ATOM	748	HB3 MET	46	-0.738	-8.382	-3.788	1.00	0.00
ATOM	749	CG MET	46	-1.412	-9.864	-2.377	1.00	0.00
ATOM	750	HG2 MET	46	-2.130	-10.684	-2.352	1.00	0.00
ATOM	751	HG3 MET	46	-0.401	-10.265	-2.299	1.00	0.00
ATOM	752	SD MET	46	-1.722	-8.759	-0.978	1.00	0.00
ATOM	753	CE MET	46	-2.328	-10.023	0.168	1.00	0.00
ATOM	754	HE1 MET	46	-1.551	-10.772	0.328	1.00	0.00
ATOM	755	HE2 MET	46	-2.585	-9.558	1.120	1.00	0.00
ATOM	756	HE3 MET	46	-3.212	-10.502	-0.253	1.00	0.00
ATOM	757	C MET	46	-3.065	-7.681	-5.087	1.00	0.00
ATOM	758	O MET	46	-2.850	-6.480	-5.251	1.00	0.00
ATOM	759	N SER	47	-3.458	-8.497	-6.063	1.00	0.00
ATOM	760	H SER	47	-3.597	-9.479	-5.868	1.00	0.00
ATOM	761	CA SER	47	-3.666	-8.026	-7.430	1.00	0.00
ATOM	762	HA SER	47	-2.738	-7.618	-7.831	1.00	0.00
ATOM	763	CB SER	47	-4.112	-9.190	-8.317	1.00	0.00
ATOM	764	HB2 SER	47	-5.104	-9.522	-8.012	1.00	0.00
ATOM	765	HB3 SER	47	-4.141	-8.866	-9.357	1.00	0.00
ATOM	766	OG SER	47	-3.191	-10.264	-8.182	1.00	0.00
ATOM	767	HG SER	47	-3.469	-10.996	-8.738	1.00	0.00
ATOM	768	C SER	47	-4.710	-6.913	-7.489	1.00	0.00

ATOM	769	O	SER	47	-4.627	-6.020	-8.332	1.00	0.00
ATOM	770	N	GLU	48	-5.701	-6.982	-6.604	1.00	0.00
ATOM	771	H	GLU	48	-5.749	-7.744	-5.942	1.00	0.00
ATOM	772	CA	GLU	48	-6.763	-5.979	-6.585	1.00	0.00
ATOM	773	HA	GLU	48	-7.327	-6.014	-7.516	1.00	0.00
ATOM	774	CB	GLU	48	-7.723	-6.255	-5.419	1.00	0.00
ATOM	775	HB2	GLU	48	-7.547	-7.262	-5.039	1.00	0.00
ATOM	776	HB3	GLU	48	-7.542	-5.531	-4.625	1.00	0.00
ATOM	777	CG	GLU	48	-9.176	-6.136	-5.898	1.00	0.00
ATOM	778	HG2	GLU	48	-9.224	-6.392	-6.956	1.00	0.00
ATOM	779	HG3	GLU	48	-9.790	-6.833	-5.328	1.00	0.00
ATOM	780	CD	GLU	48	-9.697	-4.714	-5.694	1.00	0.00
ATOM	781	OE1	GLU	48	-8.949	-3.782	-5.940	1.00	0.00
ATOM	782	OE2	GLU	48	-10.843	-4.577	-5.297	1.00	0.00
ATOM	783	C	GLU	48	-6.175	-4.575	-6.451	1.00	0.00
ATOM	784	O	GLU	48	-6.464	-3.694	-7.262	1.00	0.00
ATOM	785	N	CYX	49	-5.342	-4.377	-5.433	1.00	0.00
ATOM	786	H	CYX	49	-5.152	-5.117	-4.772	1.00	0.00
ATOM	787	CA	CYX	49	-4.713	-3.077	-5.216	1.00	0.00
ATOM	788	HA	CYX	49	-5.467	-2.291	-5.236	1.00	0.00
ATOM	789	CB	CYX	49	-4.010	-3.049	-3.848	1.00	0.00
ATOM	790	HB2	CYX	49	-3.804	-4.069	-3.523	1.00	0.00

ATOM	791	HB3	CYX	49	-3.072	-2.500	-3.932	1.00	0.00
ATOM	792	SG	CYX	49	-5.078	-2.222	-2.641	1.00	0.00
ATOM	793	C	CYX	49	-3.707	-2.769	-6.327	1.00	0.00
ATOM	794	O	CYX	49	-3.506	-1.609	-6.680	1.00	0.00
ATOM	795	N	CYX	50	-3.078	-3.817	-6.865	1.00	0.00
ATOM	796	H	CYX	50	-3.274	-4.749	-6.526	1.00	0.00
ATOM	797	CA	CYX	50	-2.079	-3.659	-7.928	1.00	0.00
ATOM	798	HA	CYX	50	-1.191	-3.163	-7.535	1.00	0.00
ATOM	799	CB	CYX	50	-1.672	-5.027	-8.474	1.00	0.00
ATOM	800	HB2	CYX	50	-1.400	-5.683	-7.647	1.00	0.00
ATOM	801	HB3	CYX	50	-2.506	-5.463	-9.023	1.00	0.00
ATOM	802	SG	CYX	50	-0.280	-4.832	-9.619	1.00	0.00
ATOM	803	C	CYX	50	-2.592	-2.806	-9.085	1.00	0.00
ATOM	804	O	CYX	50	-1.870	-1.953	-9.602	1.00	0.00
ATOM	805	N	GLU	51	-3.828	-3.055	-9.505	1.00	0.00
ATOM	806	H	GLU	51	-4.381	-3.784	-9.077	1.00	0.00
ATOM	807	CA	GLU	51	-4.405	-2.314	-10.622	1.00	0.00
ATOM	808	HA	GLU	51	-3.806	-2.465	-11.520	1.00	0.00
ATOM	809	CB	GLU	51	-5.831	-2.806	-10.895	1.00	0.00
ATOM	810	HB2	GLU	51	-5.824	-3.890	-11.013	1.00	0.00
ATOM	811	HB3	GLU	51	-6.473	-2.537	-10.056	1.00	0.00
ATOM	812	CG	GLU	51	-6.365	-2.155	-12.178	1.00	0.00

ATOM	813	HG2	GLU	51	-7.412	-2.429	-12.308	1.00	0.00
ATOM	814	HG3	GLU	51	-6.282	-1.073	-12.082	1.00	0.00
ATOM	815	CD	GLU	51	-5.560	-2.623	-13.394	1.00	0.00
ATOM	816	OE1	GLU	51	-5.069	-3.741	-13.372	1.00	0.00
ATOM	817	OE2	GLU	51	-5.450	-1.854	-14.334	1.00	0.00
ATOM	818	C	GLU	51	-4.422	-0.810	-10.349	1.00	0.00
ATOM	819	O	GLU	51	-4.204	-0.009	-11.256	1.00	0.00
ATOM	820	N	GLN	52	-4.693	-0.433	-9.102	1.00	0.00
ATOM	821	H	GLN	52	-4.898	-1.121	-8.391	1.00	0.00
ATOM	822	CA	GLN	52	-4.748	0.981	-8.734	1.00	0.00
ATOM	823	HA	GLN	52	-5.505	1.496	-9.324	1.00	0.00
ATOM	824	CB	GLN	52	-5.111	1.108	-7.257	1.00	0.00
ATOM	825	HB2	GLN	52	-4.353	0.613	-6.649	1.00	0.00
ATOM	826	HB3	GLN	52	-5.166	2.161	-6.982	1.00	0.00
ATOM	827	CG	GLN	52	-6.471	0.446	-7.015	1.00	0.00
ATOM	828	HG2	GLN	52	-6.602	-0.394	-7.697	1.00	0.00
ATOM	829	HG3	GLN	52	-6.532	0.091	-5.986	1.00	0.00
ATOM	830	CD	GLN	52	-7.597	1.448	-7.253	1.00	0.00
ATOM	831	OE1	GLN	52	-7.700	2.024	-8.335	1.00	0.00
ATOM	832	NE2	GLN	52	-8.454	1.690	-6.298	1.00	0.00
ATOM	833	HE21	GLN	52	-9.201	2.352	-6.450	1.00	0.00
ATOM	834	HE22	GLN	52	-8.365	1.213	-5.411	1.00	0.00

ATOM	835	C	GLN	52	-3.419	1.684	-9.012	1.00	0.00
ATOM	836	O	GLN	52	-3.385	2.697	-9.710	1.00	0.00
ATOM	837	N	LEU	53	-2.323	1.134	-8.481	1.00	0.00
ATOM	838	H	LEU	53	-2.380	0.278	-7.947	1.00	0.00
ATOM	839	CA	LEU	53	-1.000	1.724	-8.710	1.00	0.00
ATOM	840	HA	LEU	53	-0.971	2.729	-8.289	1.00	0.00
ATOM	841	CB	LEU	53	0.100	0.884	-8.047	1.00	0.00
ATOM	842	HB2	LEU	53	0.266	0.005	-8.670	1.00	0.00
ATOM	843	HB3	LEU	53	1.015	1.475	-8.004	1.00	0.00
ATOM	844	CG	LEU	53	-0.289	0.440	-6.630	1.00	0.00
ATOM	845	HG	LEU	53	0.608	0.445	-6.009	1.00	0.00
ATOM	846	CD1	LEU	53	-1.344	1.372	-6.013	1.00	0.00
ATOM	847	HD11	LEU	53	-2.241	1.367	-6.632	1.00	0.00
ATOM	848	HD12	LEU	53	-1.593	1.025	-5.010	1.00	0.00
ATOM	849	HD13	LEU	53	-0.946	2.385	-5.958	1.00	0.00
ATOM	850	CD2	LEU	53	-0.844	-0.981	-6.717	1.00	0.00
ATOM	851	HD21	LEU	53	-0.081	-1.646	-7.123	1.00	0.00
ATOM	852	HD22	LEU	53	-1.129	-1.322	-5.721	1.00	0.00
ATOM	853	HD23	LEU	53	-1.718	-0.991	-7.368	1.00	0.00
ATOM	854	C	LEU	53	-0.730	1.716	-10.196	1.00	0.00
ATOM	855	O	LEU	53	-0.355	2.719	-10.803	1.00	0.00
ATOM	856	N	GLU	54	-0.949	0.541	-10.750	1.00	0.00



ATOM	857	H	GLU	54	-1.214	-0.230	-10.153	1.00	0.00
ATOM	858	CA	GLU	54	-0.775	0.286	-12.158	1.00	0.00
ATOM	859	HA	GLU	54	0.268	0.390	-12.458	1.00	0.00
ATOM	860	CB	GLU	54	-1.211	-1.155	-12.403	1.00	0.00
ATOM	861	HB2	GLU	54	-0.503	-1.825	-11.914	1.00	0.00
ATOM	862	HB3	GLU	54	-2.203	-1.301	-11.975	1.00	0.00
ATOM	863	CG	GLU	54	-1.252	-1.462	-13.906	1.00	0.00
ATOM	864	HG2	GLU	54	-1.885	-0.725	-14.400	1.00	0.00
ATOM	865	HG3	GLU	54	-0.241	-1.400	-14.309	1.00	0.00
ATOM	866	CD	GLU	54	-1.814	-2.865	-14.153	1.00	0.00
ATOM	867	OE1	GLU	54	-2.131	-3.545	-13.189	1.00	0.00
ATOM	868	OE2	GLU	54	-1.918	-3.240	-15.310	1.00	0.00
ATOM	869	C	GLU	54	-1.574	1.285	-12.996	1.00	0.00
ATOM	870	O	GLU	54	-1.154	1.667	-14.089	1.00	0.00
ATOM	871	N	GLY	55	-2.713	1.720	-12.462	1.00	0.00
ATOM	872	H	GLY	55	-3.015	1.378	-11.561	1.00	0.00
ATOM	873	CA	GLY	55	-3.556	2.695	-13.152	1.00	0.00
ATOM	874	HA2	GLY	55	-3.463	2.557	-14.229	1.00	0.00
ATOM	875	HA3	GLY	55	-4.595	2.551	-12.855	1.00	0.00
ATOM	876	C	GLY	55	-3.129	4.118	-12.794	1.00	0.00
ATOM	877	O	GLY	55	-3.526	5.082	-13.449	1.00	0.00
ATOM	878	N	MET	56	-2.313	4.232	-11.748	1.00	0.00

ATOM	879	H	MET	56	-2.032	3.405	-11.240	1.00	0.00
ATOM	880	CA	MET	56	-1.818	5.529	-11.290	1.00	0.00
ATOM	881	HA	MET	56	-2.572	6.299	-11.450	1.00	0.00
ATOM	882	CB	MET	56	-1.501	5.457	-9.789	1.00	0.00
ATOM	883	HB2	MET	56	-2.417	5.239	-9.239	1.00	0.00
ATOM	884	HB3	MET	56	-0.775	4.663	-9.614	1.00	0.00
ATOM	885	CG	MET	56	-0.923	6.791	-9.309	1.00	0.00
ATOM	886	HG2	MET	56	-0.542	6.682	-8.293	1.00	0.00
ATOM	887	HG3	MET	56	-0.112	7.099	-9.969	1.00	0.00
ATOM	888	SD	MET	56	-2.217	8.054	-9.326	1.00	0.00
ATOM	889	CE	MET	56	-2.205	8.417	-7.555	1.00	0.00
ATOM	890	HE1	MET	56	-1.216	8.770	-7.262	1.00	0.00
ATOM	891	HE2	MET	56	-2.944	9.187	-7.336	1.00	0.00
ATOM	892	HE3	MET	56	-2.447	7.512	-6.996	1.00	0.00
ATOM	893	C	MET	56	-0.563	5.924	-12.061	1.00	0.00
ATOM	894	O	MET	56	0.280	5.076	-12.363	1.00	0.00
ATOM	895	N	ASP	57	-0.439	7.216	-12.374	1.00	0.00
ATOM	896	H	ASP	57	-1.162	7.877	-12.127	1.00	0.00
ATOM	897	CA	ASP	57	0.728	7.706	-13.104	1.00	0.00
ATOM	898	HA	ASP	57	0.735	7.295	-14.114	1.00	0.00
ATOM	899	CB	ASP	57	0.688	9.236	-13.197	1.00	0.00
ATOM	900	HB2	ASP	57	0.616	9.648	-12.190	1.00	0.00

ATOM	901	HB3	ASP	57	1.607	9.586	-13.667	1.00	0.00
ATOM	902	CG	ASP	57	-0.515	9.695	-14.024	1.00	0.00
ATOM	903	OD1	ASP	57	-1.080	8.878	-14.735	1.00	0.00
ATOM	904	OD2	ASP	57	-0.854	10.864	-13.934	1.00	0.00
ATOM	905	C	ASP	57	2.011	7.264	-12.404	1.00	0.00
ATOM	906	O	ASP	57	2.058	7.180	-11.177	1.00	0.00
ATOM	907	N	GLU	58	3.043	6.970	-13.190	1.00	0.00
ATOM	908	H	GLU	58	2.958	7.034	-14.194	1.00	0.00
ATOM	909	CA	GLU	58	4.314	6.519	-12.631	1.00	0.00
ATOM	910	HA	GLU	58	4.189	5.552	-12.144	1.00	0.00
ATOM	911	CB	GLU	58	5.347	6.373	-13.750	1.00	0.00
ATOM	912	HB2	GLU	58	5.073	5.539	-14.396	1.00	0.00
ATOM	913	HB3	GLU	58	5.384	7.290	-14.337	1.00	0.00
ATOM	914	CG	GLU	58	6.719	6.108	-13.133	1.00	0.00
ATOM	915	HG2	GLU	58	6.985	6.943	-12.485	1.00	0.00
ATOM	916	HG3	GLU	58	6.678	5.191	-12.544	1.00	0.00
ATOM	917	CD	GLU	58	7.770	5.961	-14.230	1.00	0.00
ATOM	918	OE1	GLU	58	7.775	4.931	-14.886	1.00	0.00
ATOM	919	OE2	GLU	58	8.557	6.879	-14.397	1.00	0.00
ATOM	920	C	GLU	58	4.849	7.486	-11.578	1.00	0.00
ATOM	921	O	GLU	58	5.091	7.096	-10.436	1.00	0.00
ATOM	922	N	SER	59	5.036	8.743	-11.966	1.00	0.00

ATOM	923	H	SER	59	4.843	9.021	-12.917	1.00	0.00
ATOM	924	CA	SER	59	5.545	9.750	-11.040	1.00	0.00
ATOM	925	HA	SER	59	6.550	9.483	-10.710	1.00	0.00
ATOM	926	CB	SER	59	5.604	11.111	-11.736	1.00	0.00
ATOM	927	HB2	SER	59	4.598	11.423	-12.015	1.00	0.00
ATOM	928	HB3	SER	59	6.039	11.848	-11.061	1.00	0.00
ATOM	929	OG	SER	59	6.408	11.006	-12.904	1.00	0.00
ATOM	930	HG	SER	59	6.447	11.858	-13.343	1.00	0.00
ATOM	931	C	SER	59	4.648	9.839	-9.812	1.00	0.00
ATOM	932	O	SER	59	5.114	10.076	-8.697	1.00	0.00
ATOM	933	N	CYX	60	3.357	9.642	-10.040	1.00	0.00
ATOM	934	H	CYX	60	3.035	9.474	-10.982	1.00	0.00
ATOM	935	CA	CYX	60	2.366	9.694	-8.967	1.00	0.00
ATOM	936	HA	CYX	60	2.562	10.547	-8.318	1.00	0.00
ATOM	937	CB	CYX	60	0.963	9.841	-9.559	1.00	0.00
ATOM	938	HB2	CYX	60	0.740	8.976	-10.183	1.00	0.00
ATOM	939	HB3	CYX	60	0.233	9.904	-8.752	1.00	0.00
ATOM	940	SG	CYX	60	0.884	11.353	-10.550	1.00	0.00
ATOM	941	C	CYX	60	2.429	8.441	-8.101	1.00	0.00
ATOM	942	O	CYX	60	2.023	8.456	-6.938	1.00	0.00
ATOM	943	N	ARG	61	2.916	7.352	-8.688	1.00	0.00
ATOM	944	H	ARG	61	3.222	7.389	-9.650	1.00	0.00

ATOM	945	CA	ARG	61	3.005	6.079	-7.983	1.00	0.00
ATOM	946	HA	ARG	61	2.020	5.766	-7.637	1.00	0.00
ATOM	947	CB	ARG	61	3.551	5.011	-8.935	1.00	0.00
ATOM	948	HB2	ARG	61	2.999	5.053	-9.873	1.00	0.00
ATOM	949	HB3	ARG	61	4.606	5.208	-9.125	1.00	0.00
ATOM	950	CG	ARG	61	3.396	3.619	-8.314	1.00	0.00
ATOM	951	HG2	ARG	61	3.867	3.601	-7.331	1.00	0.00
ATOM	952	HG3	ARG	61	2.338	3.378	-8.214	1.00	0.00
ATOM	953	CD	ARG	61	4.070	2.587	-9.220	1.00	0.00
ATOM	954	HD2	ARG	61	5.150	2.738	-9.219	1.00	0.00
ATOM	955	HD3	ARG	61	3.845	1.579	-8.870	1.00	0.00
ATOM	956	NE	ARG	61	3.579	2.728	-10.589	1.00	0.00
ATOM	957	HE	ARG	61	3.976	3.436	-11.190	1.00	0.00
ATOM	958	CZ	ARG	61	2.612	1.952	-11.074	1.00	0.00
ATOM	959	NH1	ARG	61	2.097	0.999	-10.343	1.00	0.00
ATOM	960	HH11	ARG	61	2.435	0.849	-9.403	1.00	0.00
ATOM	961	HH12	ARG	61	1.364	0.416	-10.721	1.00	0.00
ATOM	962	NH2	ARG	61	2.182	2.142	-12.290	1.00	0.00
ATOM	963	HH21	ARG	61	2.585	2.875	-12.856	1.00	0.00
ATOM	964	HH22	ARG	61	1.449	1.555	-12.660	1.00	0.00
ATOM	965	C	ARG	61	3.916	6.189	-6.763	1.00	0.00
ATOM	966	O	ARG	61	3.623	5.617	-5.712	1.00	0.00

ATOM	967	N	CYX	62	5.016	6.927	-6.903	1.00	0.00
ATOM	968	H	CYX	62	5.232	7.373	-7.783	1.00	0.00
ATOM	969	CA	CYX	62	5.950	7.097	-5.794	1.00	0.00
ATOM	970	HA	CYX	62	6.371	6.132	-5.509	1.00	0.00
ATOM	971	CB	CYX	62	7.096	8.028	-6.210	1.00	0.00
ATOM	972	HB2	CYX	62	6.770	9.065	-6.129	1.00	0.00
ATOM	973	HB3	CYX	62	7.953	7.865	-5.556	1.00	0.00
ATOM	974	SG	CYX	62	7.559	7.702	-7.930	1.00	0.00
ATOM	975	C	CYX	62	5.225	7.687	-4.586	1.00	0.00
ATOM	976	O	CYX	62	5.183	7.084	-3.513	1.00	0.00
ATOM	977	N	GLU	63	4.645	8.869	-4.784	1.00	0.00
ATOM	978	H	GLU	63	4.720	9.320	-5.684	1.00	0.00
ATOM	979	CA	GLU	63	3.904	9.551	-3.728	1.00	0.00
ATOM	980	HA	GLU	63	4.559	9.760	-2.881	1.00	0.00
ATOM	981	CB	GLU	63	3.356	10.877	-4.263	1.00	0.00
ATOM	982	HB2	GLU	63	4.164	11.434	-4.738	1.00	0.00
ATOM	983	HB3	GLU	63	2.575	10.674	-4.995	1.00	0.00
ATOM	984	CG	GLU	63	2.772	11.706	-3.109	1.00	0.00
ATOM	985	HG2	GLU	63	2.051	11.096	-2.564	1.00	0.00
ATOM	986	HG3	GLU	63	3.582	11.996	-2.439	1.00	0.00
ATOM	987	CD	GLU	63	2.078	12.961	-3.643	1.00	0.00
ATOM	988	OE1	GLU	63	1.982	13.104	-4.853	1.00	0.00

ATOM	989	OE2	GLU	63	1.649	13.764	-2.830	1.00	0.00
ATOM	990	C	GLU	63	2.742	8.692	-3.234	1.00	0.00
ATOM	991	O	GLU	63	2.412	8.695	-2.048	1.00	0.00
ATOM	992	N	GLY	64	2.109	7.981	-4.168	1.00	0.00
ATOM	993	H	GLY	64	2.423	8.015	-5.127	1.00	0.00
ATOM	994	CA	GLY	64	0.958	7.141	-3.845	1.00	0.00
ATOM	995	HA2	GLY	64	0.126	7.786	-3.565	1.00	0.00
ATOM	996	HA3	GLY	64	0.690	6.565	-4.730	1.00	0.00
ATOM	997	C	GLY	64	1.248	6.180	-2.698	1.00	0.00
ATOM	998	O	GLY	64	0.561	6.204	-1.677	1.00	0.00
ATOM	999	N	LEU	65	2.255	5.330	-2.872	1.00	0.00
ATOM	1000	H	LEU	65	2.777	5.318	-3.736	1.00	0.00
ATOM	1001	CA	LEU	65	2.605	4.360	-1.839	1.00	0.00
ATOM	1002	HA	LEU	65	1.769	3.682	-1.666	1.00	0.00
ATOM	1003	CB	LEU	65	3.820	3.536	-2.278	1.00	0.00
ATOM	1004	HB2	LEU	65	4.650	4.206	-2.501	1.00	0.00
ATOM	1005	HB3	LEU	65	4.108	2.857	-1.475	1.00	0.00
ATOM	1006	CG	LEU	65	3.467	2.725	-3.530	1.00	0.00
ATOM	1007	HG	LEU	65	3.238	3.405	-4.350	1.00	0.00
ATOM	1008	CD1	LEU	65	4.654	1.840	-3.918	1.00	0.00
ATOM	1009	HD11	LEU	65	4.884	1.159	-3.098	1.00	0.00
ATOM	1010	HD12	LEU	65	4.403	1.263	-4.808	1.00	0.00

ATOM	1011	HD13	LEU	65	5.523	2.465	-4.124	1.00	0.00
ATOM	1012	CD2	LEU	65	2.244	1.843	-3.242	1.00	0.00
ATOM	1013	HD21	LEU	65	1.398	2.472	-2.967	1.00	0.00
ATOM	1014	HD22	LEU	65	1.994	1.266	-4.132	1.00	0.00
ATOM	1015	HD23	LEU	65	2.472	1.162	-2.421	1.00	0.00
ATOM	1016	C	LEU	65	2.900	5.043	-0.508	1.00	0.00
ATOM	1017	O	LEU	65	2.425	4.603	0.537	1.00	0.00
ATOM	1018	N	ARG	66	3.682	6.120	-0.549	1.00	0.00
ATOM	1019	H	ARG	66	4.070	6.447	-1.422	1.00	0.00
ATOM	1020	CA	ARG	66	4.020	6.843	0.673	1.00	0.00
ATOM	1021	HA	ARG	66	4.565	6.190	1.356	1.00	0.00
ATOM	1022	CB	ARG	66	4.904	8.049	0.340	1.00	0.00
ATOM	1023	HB2	ARG	66	4.403	8.672	-0.401	1.00	0.00
ATOM	1024	HB3	ARG	66	5.079	8.631	1.245	1.00	0.00
ATOM	1025	CG	ARG	66	6.244	7.565	-0.222	1.00	0.00
ATOM	1026	HG2	ARG	66	6.725	6.906	0.502	1.00	0.00
ATOM	1027	HG3	ARG	66	6.073	7.020	-1.150	1.00	0.00
ATOM	1028	CD	ARG	66	7.150	8.769	-0.496	1.00	0.00
ATOM	1029	HD2	ARG	66	8.047	8.444	-1.025	1.00	0.00
ATOM	1030	HD3	ARG	66	6.618	9.502	-1.101	1.00	0.00
ATOM	1031	NE	ARG	66	7.550	9.400	0.760	1.00	0.00
ATOM	1032	HE	ARG	66	7.089	10.243	1.070	1.00	0.00



ATOM	1033	CZ	ARG	66	8.518	8.889	1.520	1.00	0.00
ATOM	1034	NH1	ARG	66	9.138	7.800	1.151	1.00	0.00
ATOM	1035	HH11	ARG	66	8.882	7.345	0.287	1.00	0.00
ATOM	1036	HH12	ARG	66	9.871	7.418	1.732	1.00	0.00
ATOM	1037	NH2	ARG	66	8.848	9.478	2.635	1.00	0.00
ATOM	1038	HH21	ARG	66	8.369	10.320	2.919	1.00	0.00
ATOM	1039	HH22	ARG	66	9.582	9.089	3.210	1.00	0.00
ATOM	1040	C	ARG	66	2.756	7.319	1.385	1.00	0.00
ATOM	1041	O	ARG	66	2.556	7.043	2.569	1.00	0.00
ATOM	1042	N	MET	67	1.907	8.032	0.649	1.00	0.00
ATOM	1043	H	MET	67	2.130	8.252	-0.311	1.00	0.00
ATOM	1044	CA	MET	67	0.658	8.545	1.205	1.00	0.00
ATOM	1045	HA	MET	67	0.862	9.170	2.075	1.00	0.00
ATOM	1046	CB	MET	67	-0.068	9.391	0.153	1.00	0.00
ATOM	1047	HB2	MET	67	0.442	10.348	0.043	1.00	0.00
ATOM	1048	HB3	MET	67	-0.062	8.865	-0.802	1.00	0.00
ATOM	1049	CG	MET	67	-1.516	9.631	0.595	1.00	0.00
ATOM	1050	HG2	MET	67	-2.072	8.695	0.551	1.00	0.00
ATOM	1051	HG3	MET	67	-1.529	10.012	1.616	1.00	0.00
ATOM	1052	SD	MET	67	-2.298	10.842	-0.503	1.00	0.00
ATOM	1053	CE	MET	67	-1.315	12.280	-0.007	1.00	0.00
ATOM	1054	HE1	MET	67	-0.261	12.087	-0.208	1.00	0.00

ATOM	1055	HE2	MET	67	-1.638	13.154	-0.572	1.00	0.00
ATOM	1056	HE3	MET	67	-1.453	12.465	1.058	1.00	0.00
ATOM	1057	C	MET	67	-0.255	7.414	1.671	1.00	0.00
ATOM	1058	O	MET	67	-0.793	7.452	2.778	1.00	0.00
ATOM	1059	N	MET	68	-0.442	6.424	0.805	1.00	0.00
ATOM	1060	H	MET	68	-0.007	6.455	-0.106	1.00	0.00
ATOM	1061	CA	MET	68	-1.314	5.297	1.116	1.00	0.00
ATOM	1062	HA	MET	68	-2.312	5.649	1.374	1.00	0.00
ATOM	1063	CB	MET	68	-1.418	4.385	-0.110	1.00	0.00
ATOM	1064	HB2	MET	68	-2.123	4.818	-0.819	1.00	0.00
ATOM	1065	HB3	MET	68	-0.437	4.302	-0.578	1.00	0.00
ATOM	1066	CG	MET	68	-1.904	2.992	0.307	1.00	0.00
ATOM	1067	HG2	MET	68	-1.113	2.473	0.850	1.00	0.00
ATOM	1068	HG3	MET	68	-2.782	3.084	0.946	1.00	0.00
ATOM	1069	SD	MET	68	-2.339	2.038	-1.166	1.00	0.00
ATOM	1070	CE	MET	68	-0.662	1.842	-1.814	1.00	0.00
ATOM	1071	HE1	MET	68	-0.049	1.314	-1.083	1.00	0.00
ATOM	1072	HE2	MET	68	-0.694	1.270	-2.741	1.00	0.00
ATOM	1073	HE3	MET	68	-0.230	2.823	-2.008	1.00	0.00
ATOM	1074	C	MET	68	-0.811	4.509	2.322	1.00	0.00
ATOM	1075	O	MET	68	-1.587	4.188	3.220	1.00	0.00
ATOM	1076	N	MET	69	0.482	4.196	2.343	1.00	0.00

ATOM	1077	H	MET	69	1.094	4.457	1.583	1.00	0.00
ATOM	1078	CA	MET	69	1.047	3.440	3.456	1.00	0.00
ATOM	1079	HA	MET	69	0.650	2.425	3.459	1.00	0.00
ATOM	1080	CB	MET	69	2.572	3.369	3.320	1.00	0.00
ATOM	1081	HB2	MET	69	2.829	2.974	2.337	1.00	0.00
ATOM	1082	HB3	MET	69	2.992	4.369	3.430	1.00	0.00
ATOM	1083	CG	MET	69	3.146	2.453	4.404	1.00	0.00
ATOM	1084	HG2	MET	69	2.842	2.810	5.388	1.00	0.00
ATOM	1085	HG3	MET	69	2.781	1.436	4.259	1.00	0.00
ATOM	1086	SD	MET	69	4.953	2.456	4.302	1.00	0.00
ATOM	1087	CE	MET	69	5.258	1.225	5.593	1.00	0.00
ATOM	1088	HE1	MET	69	4.780	0.284	5.319	1.00	0.00
ATOM	1089	HE2	MET	69	6.332	1.068	5.701	1.00	0.00
ATOM	1090	HE3	MET	69	4.847	1.579	6.538	1.00	0.00
ATOM	1091	C	MET	69	0.677	4.095	4.784	1.00	0.00
ATOM	1092	O	MET	69	0.119	3.451	5.673	1.00	0.00
ATOM	1093	N	ARG	70	0.987	5.382	4.902	1.00	0.00
ATOM	1094	H	ARG	70	1.460	5.860	4.149	1.00	0.00
ATOM	1095	CA	ARG	70	0.682	6.133	6.115	1.00	0.00
ATOM	1096	HA	ARG	70	1.159	5.667	6.978	1.00	0.00
ATOM	1097	CB	ARG	70	1.211	7.564	5.977	1.00	0.00
ATOM	1098	HB2	ARG	70	0.772	8.031	5.096	1.00	0.00

ATOM	1099	HB3	ARG	70	0.943	8.138	6.864	1.00	0.00
ATOM	1100	CG	ARG	70	2.736	7.532	5.832	1.00	0.00
ATOM	1101	HG2	ARG	70	3.174	7.059	6.711	1.00	0.00
ATOM	1102	HG3	ARG	70	3.004	6.961	4.943	1.00	0.00
ATOM	1103	CD	ARG	70	3.271	8.960	5.702	1.00	0.00
ATOM	1104	HD2	ARG	70	2.703	9.503	4.947	1.00	0.00
ATOM	1105	HD3	ARG	70	3.190	9.476	6.659	1.00	0.00
ATOM	1106	NE	ARG	70	4.675	8.935	5.302	1.00	0.00
ATOM	1107	HE	ARG	70	5.251	8.137	5.531	1.00	0.00
ATOM	1108	CZ	ARG	70	5.227	9.948	4.634	1.00	0.00
ATOM	1109	NH1	ARG	70	4.518	11.003	4.330	1.00	0.00
ATOM	1110	HH11	ARG	70	3.547	11.050	4.603	1.00	0.00
ATOM	1111	HH12	ARG	70	4.945	11.765	3.824	1.00	0.00
ATOM	1112	NH2	ARG	70	6.482	9.887	4.282	1.00	0.00
ATOM	1113	HH21	ARG	70	7.031	9.072	4.518	1.00	0.00
ATOM	1114	HH22	ARG	70	6.900	10.655	3.776	1.00	0.00
ATOM	1115	C	ARG	70	-0.824	6.168	6.375	1.00	0.00
ATOM	1116	O	ARG	70	-1.270	6.016	7.512	1.00	0.00
ATOM	1117	N	MET	71	-1.598	6.377	5.309	1.00	0.00
ATOM	1118	H	MET	71	-1.178	6.519	4.402	1.00	0.00
ATOM	1119	CA	MET	71	-3.050	6.442	5.417	1.00	0.00
ATOM	1120	HA	MET	71	-3.337	7.189	6.157	1.00	0.00

ATOM	1121	CB	MET	71	-3.656	6.833	4.066	1.00	0.00
ATOM	1122	HB2	MET	71	-3.140	7.712	3.679	1.00	0.00
ATOM	1123	HB3	MET	71	-3.540	6.006	3.365	1.00	0.00
ATOM	1124	CG	MET	71	-5.145	7.150	4.241	1.00	0.00
ATOM	1125	HG2	MET	71	-5.648	6.304	4.710	1.00	0.00
ATOM	1126	HG3	MET	71	-5.261	8.034	4.868	1.00	0.00
ATOM	1127	SD	MET	71	-5.893	7.466	2.622	1.00	0.00
ATOM	1128	CE	MET	71	-4.956	8.961	2.215	1.00	0.00
ATOM	1129	HE1	MET	71	-3.891	8.728	2.194	1.00	0.00
ATOM	1130	HE2	MET	71	-5.266	9.330	1.238	1.00	0.00
ATOM	1131	HE3	MET	71	-5.145	9.725	2.969	1.00	0.00
ATOM	1132	C	MET	71	-3.621	5.106	5.872	1.00	0.00
ATOM	1133	O	MET	71	-4.569	5.062	6.656	1.00	0.00
ATOM	1134	N	MET	72	-3.048	4.020	5.365	1.00	0.00
ATOM	1135	H	MET	72	-2.286	4.096	4.706	1.00	0.00
ATOM	1136	CA	MET	72	-3.522	2.691	5.721	1.00	0.00
ATOM	1137	HA	MET	72	-4.557	2.566	5.404	1.00	0.00
ATOM	1138	CB	MET	72	-2.666	1.625	5.029	1.00	0.00
ATOM	1139	HB2	MET	72	-1.615	1.906	5.100	1.00	0.00
ATOM	1140	HB3	MET	72	-2.819	0.665	5.523	1.00	0.00
ATOM	1141	CG	MET	72	-3.065	1.510	3.555	1.00	0.00
ATOM	1142	HG2	MET	72	-3.036	2.494	3.088	1.00	0.00

ATOM	1143	HG3 MET	72	-2.375	0.842	3.038	1.00	0.00
ATOM	1144	SD MET	72	-4.744	0.842	3.433	1.00	0.00
ATOM	1145	CE MET	72	-4.400	-0.782	4.158	1.00	0.00
ATOM	1146	HE1 MET	72	-4.024	-0.655	5.174	1.00	0.00
ATOM	1147	HE2 MET	72	-5.316	-1.372	4.181	1.00	0.00
ATOM	1148	HE3 MET	72	-3.651	-1.298	3.557	1.00	0.00
ATOM	1149	C MET	72	-3.475	2.483	7.229	1.00	0.00
ATOM	1150	O MET	72	-4.490	2.167	7.853	1.00	0.00
ATOM	1151	N GLN	73	-2.293	2.669	7.807	1.00	0.00
ATOM	1152	H GLN	73	-1.483	2.905	7.251	1.00	0.00
ATOM	1153	CA GLN	73	-2.120	2.508	9.245	1.00	0.00
ATOM	1154	HA GLN	73	-2.409	1.500	9.545	1.00	0.00
ATOM	1155	CB GLN	73	-0.654	2.730	9.626	1.00	0.00
ATOM	1156	HB2 GLN	73	-0.360	3.744	9.357	1.00	0.00
ATOM	1157	HB3 GLN	73	-0.535	2.591	10.701	1.00	0.00
ATOM	1158	CG GLN	73	0.232	1.728	8.881	1.00	0.00
ATOM	1159	HG2 GLN	73	0.247	1.945	7.813	1.00	0.00
ATOM	1160	HG3 GLN	73	1.247	1.780	9.276	1.00	0.00
ATOM	1161	CD GLN	73	-0.296	0.314	9.083	1.00	0.00
ATOM	1162	OE1 GLN	73	-0.260	-0.213	10.195	1.00	0.00
ATOM	1163	NE2 GLN	73	-0.803	-0.327	8.069	1.00	0.00
ATOM	1164	HE21 GLN	73	-1.155	-1.266	8.194	1.00	0.00

ATOM	1165	HE22	GLN	73	-0.841	0.117	7.163	1.00	0.00
ATOM	1166	C	GLN	73	-3.005	3.490	10.006	1.00	0.00
ATOM	1167	O	GLN	73	-3.600	3.146	11.023	1.00	0.00
ATOM	1168	N	GLN	74	-3.077	4.717	9.503	1.00	0.00
ATOM	1169	H	GLN	74	-2.542	4.965	8.683	1.00	0.00
ATOM	1170	CA	GLN	74	-3.882	5.751	10.142	1.00	0.00
ATOM	1171	HA	GLN	74	-3.572	5.882	11.179	1.00	0.00
ATOM	1172	CB	GLN	74	-3.695	7.080	9.403	1.00	0.00
ATOM	1173	HB2	GLN	74	-2.758	7.541	9.716	1.00	0.00
ATOM	1174	HB3	GLN	74	-3.668	6.897	8.329	1.00	0.00
ATOM	1175	CG	GLN	74	-4.859	8.017	9.732	1.00	0.00
ATOM	1176	HG2	GLN	74	-5.401	7.654	10.606	1.00	0.00
ATOM	1177	HG3	GLN	74	-4.483	9.021	9.930	1.00	0.00
ATOM	1178	CD	GLN	74	-5.822	8.081	8.553	1.00	0.00
ATOM	1179	OE1	GLN	74	-5.852	7.095	7.702	1.00	0.00
ATOM	1180	NE2	GLN	74	-6.567	9.050	8.407	1.00	0.00
ATOM	1181	HE21	GLN	74	-7.201	9.081	7.622	1.00	0.00
ATOM	1182	HE22	GLN	74	-6.540	9.808	9.074	1.00	0.00
ATOM	1183	C	GLN	74	-5.362	5.373	10.178	1.00	0.00
ATOM	1184	O	GLN	74	-6.032	5.564	11.194	1.00	0.00
ATOM	1185	N	LYS	75	-5.867	4.851	9.067	1.00	0.00
ATOM	1186	H	LYS	75	-5.288	4.722	8.249	1.00	0.00

ATOM	1187	CA	LYS	75	-7.274	4.473	8.986	1.00	0.00
ATOM	1188	HA	LYS	75	-7.908	5.344	9.151	1.00	0.00
ATOM	1189	CB	LYS	75	-7.574	3.904	7.596	1.00	0.00
ATOM	1190	HB2	LYS	75	-7.242	4.613	6.838	1.00	0.00
ATOM	1191	HB3	LYS	75	-7.040	2.962	7.470	1.00	0.00
ATOM	1192	CG	LYS	75	-9.081	3.662	7.445	1.00	0.00
ATOM	1193	HG2	LYS	75	-9.257	3.005	6.593	1.00	0.00
ATOM	1194	HG3	LYS	75	-9.463	3.191	8.351	1.00	0.00
ATOM	1195	CD	LYS	75	-9.802	4.995	7.219	1.00	0.00
ATOM	1196	HD2	LYS	75	-9.684	5.625	8.101	1.00	0.00
ATOM	1197	HD3	LYS	75	-9.372	5.498	6.353	1.00	0.00
ATOM	1198	CE	LYS	75	-11.290	4.737	6.972	1.00	0.00
ATOM	1199	HE2	LYS	75	-11.679	4.083	7.752	1.00	0.00
ATOM	1200	HE3	LYS	75	-11.830	5.683	6.989	1.00	0.00
ATOM	1201	NZ	LYS	75	-11.469	4.086	5.643	1.00	0.00
ATOM	1202	HZ1	LYS	75	-10.968	3.208	5.628	1.00	0.00
ATOM	1203	HZ2	LYS	75	-12.451	3.916	5.481	1.00	0.00
ATOM	1204	HZ3	LYS	75	-11.108	4.692	4.920	1.00	0.00
ATOM	1205	C	LYS	75	-7.622	3.436	10.050	1.00	0.00
ATOM	1206	O	LYS	75	-8.677	3.510	10.682	1.00	0.00
ATOM	1207	N	GLU	76	-6.728	2.475	10.237	1.00	0.00
ATOM	1208	H	GLU	76	-5.886	2.442	9.679	1.00	0.00



ATOM	1209	CA	GLU	76	-6.945	1.420	11.226	1.00	0.00
ATOM	1210	HA	GLU	76	-7.259	1.854	12.175	1.00	0.00
ATOM	1211	CB	GLU	76	-8.042	0.464	10.737	1.00	0.00
ATOM	1212	HB2	GLU	76	-8.913	1.042	10.430	1.00	0.00
ATOM	1213	HB3	GLU	76	-7.669	-0.109	9.888	1.00	0.00
ATOM	1214	CG	GLU	76	-8.438	-0.497	11.868	1.00	0.00
ATOM	1215	HG2	GLU	76	-9.102	-1.262	11.465	1.00	0.00
ATOM	1216	HG3	GLU	76	-7.538	-0.969	12.263	1.00	0.00
ATOM	1217	CD	GLU	76	-9.152	0.257	12.991	1.00	0.00
ATOM	1218	OE1	GLU	76	-9.770	1.273	12.708	1.00	0.00
ATOM	1219	OE2	GLU	76	-9.070	-0.193	14.122	1.00	0.00
ATOM	1220	C	GLU	76	-5.654	0.644	11.478	1.00	0.00
ATOM	1221	O	GLU	76	-5.497	-0.483	11.004	1.00	0.00
ATOM	1222	N	MET	77	-4.729	1.253	12.213	1.00	0.00
ATOM	1223	H	MET	77	-4.884	2.188	12.561	1.00	0.00
ATOM	1224	CA	MET	77	-3.453	0.607	12.511	1.00	0.00
ATOM	1225	HA	MET	77	-2.901	0.426	11.589	1.00	0.00
ATOM	1226	CB	MET	77	-2.608	1.509	13.419	1.00	0.00
ATOM	1227	HB2	MET	77	-2.542	2.504	12.980	1.00	0.00
ATOM	1228	HB3	MET	77	-3.077	1.576	14.401	1.00	0.00
ATOM	1229	CG	MET	77	-1.201	0.922	13.566	1.00	0.00
ATOM	1230	HG2	MET	77	-1.264	-0.097	13.948	1.00	0.00

ATOM	1231	HG3 MET	77	-0.701	0.915	12.598	1.00	0.00
ATOM	1232	SD MET	77	-0.244	1.932	14.722	1.00	0.00
ATOM	1233	CE MET	77	1.325	1.046	14.556	1.00	0.00
ATOM	1234	HE1 MET	77	1.658	1.087	13.519	1.00	0.00
ATOM	1235	HE2 MET	77	2.075	1.510	15.197	1.00	0.00
ATOM	1236	HE3 MET	77	1.189	0.006	14.853	1.00	0.00
ATOM	1237	C MET	77	-3.671	-0.746	13.188	1.00	0.00
ATOM	1238	O MET	77	-3.784	-0.822	14.413	1.00	0.00
ATOM	1239	N GLN	78	-3.715	-1.810	12.389	1.00	0.00
ATOM	1240	H GLN	78	-3.634	-1.705	11.388	1.00	0.00
ATOM	1241	CA GLN	78	-3.900	-3.153	12.931	1.00	0.00
ATOM	1242	HA GLN	78	-4.886	-3.239	13.388	1.00	0.00
ATOM	1243	CB GLN	78	-3.787	-4.194	11.810	1.00	0.00
ATOM	1244	HB2 GLN	78	-3.363	-3.725	10.922	1.00	0.00
ATOM	1245	HB3 GLN	78	-3.138	-5.008	12.136	1.00	0.00
ATOM	1246	CG GLN	78	-5.176	-4.750	11.480	1.00	0.00
ATOM	1247	HG2 GLN	78	-5.623	-5.190	12.372	1.00	0.00
ATOM	1248	HG3 GLN	78	-5.818	-3.952	11.109	1.00	0.00
ATOM	1249	CD GLN	78	-5.067	-5.829	10.405	1.00	0.00
ATOM	1250	OE1 GLN	78	-4.255	-6.747	10.524	1.00	0.00
ATOM	1251	NE2 GLN	78	-5.842	-5.773	9.356	1.00	0.00
ATOM	1252	HE21 GLN	78	-5.773	-6.485	8.643	1.00	0.00

ATOM	1253	HE22	GLN	78	-6.506	-5.019	9.263	1.00	0.00
ATOM	1254	C	GLN	78	-2.841	-3.425	14.000	1.00	0.00
ATOM	1255	O	GLN	78	-1.662	-3.135	13.789	1.00	0.00
ATOM	1256	N	PRO	79	-3.221	-3.965	15.132	1.00	0.00
ATOM	1257	CD	PRO	79	-4.584	-4.360	15.506	1.00	0.00
ATOM	1258	HD2	PRO	79	-4.862	-5.257	14.952	1.00	0.00
ATOM	1259	HD3	PRO	79	-5.272	-3.552	15.259	1.00	0.00
ATOM	1260	CG	PRO	79	-4.490	-4.607	17.020	1.00	0.00
ATOM	1261	HG2	PRO	79	-4.603	-5.674	17.213	1.00	0.00
ATOM	1262	HG3	PRO	79	-5.290	-4.061	17.519	1.00	0.00
ATOM	1263	CB	PRO	79	-3.152	-4.112	17.461	1.00	0.00
ATOM	1264	HB2	PRO	79	-2.794	-4.772	18.252	1.00	0.00
ATOM	1265	HB3	PRO	79	-3.130	-3.081	17.812	1.00	0.00
ATOM	1266	CA	PRO	79	-2.273	-4.259	16.228	1.00	0.00
ATOM	1267	HA	PRO	79	-1.452	-3.544	16.177	1.00	0.00
ATOM	1268	C	PRO	79	-1.720	-5.672	16.123	1.00	0.00
ATOM	1269	O	PRO	79	-2.440	-6.654	16.312	1.00	0.00
ATOM	1270	N	ARG	80	-0.438	-5.754	15.833	1.00	0.00
ATOM	1271	H	ARG	80	0.097	-4.913	15.669	1.00	0.00
ATOM	1272	CA	ARG	80	0.238	-7.036	15.711	1.00	0.00
ATOM	1273	HA	ARG	80	0.115	-7.607	16.632	1.00	0.00
ATOM	1274	CB	ARG	80	-0.349	-7.844	14.552	1.00	0.00

ATOM	1275	HB2 ARG	80	-1.053	-7.226	13.996	1.00	0.00
ATOM	1276	HB3 ARG	80	0.454	-8.167	13.889	1.00	0.00
ATOM	1277	CG ARG	80	-1.076	-9.072	15.107	1.00	0.00
ATOM	1278	HG2 ARG	80	-0.362	-9.884	15.244	1.00	0.00
ATOM	1279	HG3 ARG	80	-1.529	-8.822	16.067	1.00	0.00
ATOM	1280	CD ARG	80	-2.165	-9.511	14.129	1.00	0.00
ATOM	1281	HD2 ARG	80	-2.008	-9.035	13.161	1.00	0.00
ATOM	1282	HD3 ARG	80	-2.140	-10.594	14.009	1.00	0.00
ATOM	1283	NE ARG	80	-3.482	-9.125	14.633	1.00	0.00
ATOM	1284	HE ARG	80	-3.950	-9.712	15.310	1.00	0.00
ATOM	1285	CZ ARG	80	-4.093	-8.013	14.224	1.00	0.00
ATOM	1286	NH1 ARG	80	-3.517	-7.221	13.360	1.00	0.00
ATOM	1287	HH11 ARG	80	-2.602	-7.453	12.999	1.00	0.00
ATOM	1288	HH12 ARG	80	-3.988	-6.381	13.057	1.00	0.00
ATOM	1289	NH2 ARG	80	-5.273	-7.714	14.691	1.00	0.00
ATOM	1290	HH21 ARG	80	-5.718	-8.326	15.360	1.00	0.00
ATOM	1291	HH22 ARG	80	-5.736	-6.872	14.382	1.00	0.00
ATOM	1292	C ARG	80	1.728	-6.817	15.485	1.00	0.00
ATOM	1293	O ARG	80	2.117	-6.069	14.587	1.00	0.00
ATOM	1294	N GLY	81	2.560	-7.460	16.297	1.00	0.00
ATOM	1295	H GLY	81	2.219	-8.070	17.027	1.00	0.00
ATOM	1296	CA GLY	81	3.999	-7.298	16.151	1.00	0.00

ATOM	1297	HA2	GLY	81	4.202	-6.302	15.759	1.00	0.00
ATOM	1298	HA3	GLY	81	4.465	-7.404	17.131	1.00	0.00
ATOM	1299	C	GLY	81	4.595	-8.336	15.203	1.00	0.00
ATOM	1300	O	GLY	81	4.973	-8.013	14.080	1.00	0.00
ATOM	1301	N	GLU	82	4.689	-9.576	15.673	1.00	0.00
ATOM	1302	H	GLU	82	4.389	-9.783	16.615	1.00	0.00
ATOM	1303	CA	GLU	82	5.264	-10.660	14.875	1.00	0.00
ATOM	1304	HA	GLU	82	6.271	-10.396	14.551	1.00	0.00
ATOM	1305	CB	GLU	82	5.340	-11.937	15.718	1.00	0.00
ATOM	1306	HB2	GLU	82	4.356	-12.155	16.133	1.00	0.00
ATOM	1307	HB3	GLU	82	5.660	-12.767	15.088	1.00	0.00
ATOM	1308	CG	GLU	82	6.347	-11.746	16.862	1.00	0.00
ATOM	1309	HG2	GLU	82	6.639	-12.726	17.240	1.00	0.00
ATOM	1310	HG3	GLU	82	7.226	-11.231	16.474	1.00	0.00
ATOM	1311	CD	GLU	82	5.733	-10.923	17.998	1.00	0.00
ATOM	1312	OE1	GLU	82	4.520	-10.944	18.143	1.00	0.00
ATOM	1313	OE2	GLU	82	6.489	-10.281	18.709	1.00	0.00
ATOM	1314	C	GLU	82	4.473	-10.948	13.597	1.00	0.00
ATOM	1315	O	GLU	82	5.061	-11.150	12.534	1.00	0.00
ATOM	1316	N	GLN	83	3.147	-11.007	13.707	1.00	0.00
ATOM	1317	H	GLN	83	2.698	-10.864	14.600	1.00	0.00
ATOM	1318	CA	GLN	83	2.307	-11.320	12.550	1.00	0.00

ATOM	1319	HA	GLN	83	2.576	-12.295	12.142	1.00	0.00
ATOM	1320	CB	GLN	83	0.835	-11.356	12.977	1.00	0.00
ATOM	1321	HB2	GLN	83	0.725	-12.022	13.833	1.00	0.00
ATOM	1322	HB3	GLN	83	0.516	-10.352	13.256	1.00	0.00
ATOM	1323	CG	GLN	83	-0.031	-11.864	11.820	1.00	0.00
ATOM	1324	HG2	GLN	83	-1.084	-11.685	12.036	1.00	0.00
ATOM	1325	HG3	GLN	83	0.243	-11.351	10.898	1.00	0.00
ATOM	1326	CD	GLN	83	0.179	-13.363	11.625	1.00	0.00
ATOM	1327	OE1	GLN	83	-0.216	-14.161	12.474	1.00	0.00
ATOM	1328	NE2	GLN	83	0.780	-13.794	10.550	1.00	0.00
ATOM	1329	HE21	GLN	83	0.921	-14.786	10.417	1.00	0.00
ATOM	1330	HE22	GLN	83	1.102	-13.135	9.856	1.00	0.00
ATOM	1331	C	GLN	83	2.485	-10.307	11.416	1.00	0.00
ATOM	1332	O	GLN	83	2.958	-10.653	10.334	1.00	0.00
ATOM	1333	N	MET	84	2.093	-9.062	11.671	1.00	0.00
ATOM	1334	H	MET	84	1.651	-8.840	12.552	1.00	0.00
ATOM	1335	CA	MET	84	2.203	-8.008	10.665	1.00	0.00
ATOM	1336	HA	MET	84	1.709	-8.320	9.745	1.00	0.00
ATOM	1337	CB	MET	84	1.538	-6.726	11.166	1.00	0.00
ATOM	1338	HB2	MET	84	1.799	-6.564	12.212	1.00	0.00
ATOM	1339	HB3	MET	84	1.881	-5.880	10.571	1.00	0.00
ATOM	1340	CG	MET	84	0.014	-6.860	11.034	1.00	0.00

ATOM	1341	HG2 MET	84	-0.253	-7.026	9.991	1.00	0.00
ATOM	1342	HG3 MET	84	-0.336	-7.699	11.636	1.00	0.00
ATOM	1343	SD MET	84	-0.776	-5.339	11.616	1.00	0.00
ATOM	1344	CE MET	84	-0.296	-4.277	10.231	1.00	0.00
ATOM	1345	HE1 MET	84	-0.701	-4.683	9.304	1.00	0.00
ATOM	1346	HE2 MET	84	-0.688	-3.273	10.390	1.00	0.00
ATOM	1347	HE3 MET	84	0.791	-4.236	10.164	1.00	0.00
ATOM	1348	C MET	84	3.652	-7.745	10.257	1.00	0.00
ATOM	1349	O MET	84	3.910	-7.348	9.122	1.00	0.00
ATOM	1350	N ARG	85	4.599	-7.960	11.171	1.00	0.00
ATOM	1351	H ARG	85	4.371	-8.266	12.106	1.00	0.00
ATOM	1352	CA ARG	85	6.006	-7.728	10.841	1.00	0.00
ATOM	1353	HA ARG	85	6.181	-6.663	10.692	1.00	0.00
ATOM	1354	CB ARG	85	6.909	-8.217	11.979	1.00	0.00
ATOM	1355	HB2 ARG	85	6.678	-7.660	12.887	1.00	0.00
ATOM	1356	HB3 ARG	85	6.730	-9.279	12.150	1.00	0.00
ATOM	1357	CG ARG	85	8.380	-8.001	11.609	1.00	0.00
ATOM	1358	HG2 ARG	85	8.635	-8.619	10.748	1.00	0.00
ATOM	1359	HG3 ARG	85	8.545	-6.952	11.365	1.00	0.00
ATOM	1360	CD ARG	85	9.263	-8.393	12.796	1.00	0.00
ATOM	1361	HD2 ARG	85	10.302	-8.138	12.587	1.00	0.00
ATOM	1362	HD3 ARG	85	8.934	-7.869	13.694	1.00	0.00

ATOM	1363	NE	ARG	85	9.174	-9.832	13.035	1.00	0.00
ATOM	1364	HE	ARG	85	9.187	-10.472	12.254	1.00	0.00
ATOM	1365	CZ	ARG	85	9.071	-10.334	14.266	1.00	0.00
ATOM	1366	NH1	ARG	85	9.060	-9.544	15.307	1.00	0.00
ATOM	1367	HH11	ARG	85	9.130	-8.545	15.180	1.00	0.00
ATOM	1368	HH12	ARG	85	8.982	-9.937	16.235	1.00	0.00
ATOM	1369	NH2	ARG	85	8.985	-11.625	14.433	1.00	0.00
ATOM	1370	HH21	ARG	85	8.997	-12.237	13.630	1.00	0.00
ATOM	1371	HH22	ARG	85	8.907	-12.007	15.365	1.00	0.00
ATOM	1372	C	ARG	85	6.362	-8.458	9.549	1.00	0.00
ATOM	1373	O	ARG	85	6.986	-7.887	8.655	1.00	0.00
ATOM	1374	N	ARG	86	5.935	-9.714	9.451	1.00	0.00
ATOM	1375	H	ARG	86	5.442	-10.149	10.218	1.00	0.00
ATOM	1376	CA	ARG	86	6.186	-10.506	8.253	1.00	0.00
ATOM	1377	HA	ARG	86	7.258	-10.575	8.067	1.00	0.00
ATOM	1378	CB	ARG	86	5.630	-11.920	8.440	1.00	0.00
ATOM	1379	HB2	ARG	86	4.566	-11.866	8.668	1.00	0.00
ATOM	1380	HB3	ARG	86	5.777	-12.493	7.525	1.00	0.00
ATOM	1381	CG	ARG	86	6.365	-12.607	9.595	1.00	0.00
ATOM	1382	HG2	ARG	86	7.434	-12.625	9.382	1.00	0.00
ATOM	1383	HG3	ARG	86	6.188	-12.052	10.516	1.00	0.00
ATOM	1384	CD	ARG	86	5.854	-14.039	9.758	1.00	0.00



ATOM	1385	HD2 ARG	86	4.766	-14.041	9.812	1.00	0.00
ATOM	1386	HD3 ARG	86	6.177	-14.647	8.913	1.00	0.00
ATOM	1387	NE ARG	86	6.384	-14.626	10.985	1.00	0.00
ATOM	1388	HE ARG	86	7.112	-14.150	11.499	1.00	0.00
ATOM	1389	CZ ARG	86	5.928	-15.785	11.455	1.00	0.00
ATOM	1390	NH1 ARG	86	4.991	-16.432	10.815	1.00	0.00
ATOM	1391	HH11 ARG	86	4.612	-16.051	9.960	1.00	0.00
ATOM	1392	HH12 ARG	86	4.651	-17.311	11.178	1.00	0.00
ATOM	1393	NH2 ARG	86	6.421	-16.278	12.557	1.00	0.00
ATOM	1394	HH21 ARG	86	7.148	-15.778	13.050	1.00	0.00
ATOM	1395	HH22 ARG	86	6.075	-17.158	12.913	1.00	0.00
ATOM	1396	C ARG	86	5.530	-9.843	7.043	1.00	0.00
ATOM	1397	O ARG	86	6.084	-9.835	5.943	1.00	0.00
ATOM	1398	N MET	87	4.338	-9.287	7.271	1.00	0.00
ATOM	1399	H MET	87	3.930	-9.339	8.194	1.00	0.00
ATOM	1400	CA MET	87	3.583	-8.614	6.216	1.00	0.00
ATOM	1401	HA MET	87	3.307	-9.329	5.441	1.00	0.00
ATOM	1402	CB MET	87	2.303	-8.002	6.796	1.00	0.00
ATOM	1403	HB2 MET	87	1.780	-8.754	7.387	1.00	0.00
ATOM	1404	HB3 MET	87	2.564	-7.157	7.433	1.00	0.00
ATOM	1405	CG MET	87	1.395	-7.524	5.658	1.00	0.00
ATOM	1406	HG2 MET	87	2.003	-7.112	4.853	1.00	0.00

ATOM	1407	HG3 MET	87	0.811	-8.363	5.279	1.00	0.00
ATOM	1408	SD MET	87	0.270	-6.243	6.271	1.00	0.00
ATOM	1409	CE MET	87	-0.765	-7.298	7.314	1.00	0.00
ATOM	1410	HE1 MET	87	-0.148	-7.771	8.079	1.00	0.00
ATOM	1411	HE2 MET	87	-1.535	-6.693	7.793	1.00	0.00
ATOM	1412	HE3 MET	87	-1.235	-8.067	6.701	1.00	0.00
ATOM	1413	C MET	87	4.408	-7.509	5.561	1.00	0.00
ATOM	1414	O MET	87	4.219	-7.206	4.385	1.00	0.00
ATOM	1415	N MET	88	5.306	-6.893	6.330	1.00	0.00
ATOM	1416	H MET	88	5.429	-7.162	7.296	1.00	0.00
ATOM	1417	CA MET	88	6.126	-5.805	5.805	1.00	0.00
ATOM	1418	HA MET	88	5.520	-4.913	5.651	1.00	0.00
ATOM	1419	CB MET	88	7.232	-5.477	6.808	1.00	0.00
ATOM	1420	HB2 MET	88	7.784	-6.386	7.049	1.00	0.00
ATOM	1421	HB3 MET	88	7.912	-4.746	6.371	1.00	0.00
ATOM	1422	CG MET	88	6.615	-4.900	8.088	1.00	0.00
ATOM	1423	HG2 MET	88	6.315	-3.866	7.918	1.00	0.00
ATOM	1424	HG3 MET	88	5.743	-5.489	8.374	1.00	0.00
ATOM	1425	SD MET	88	7.834	-4.954	9.426	1.00	0.00
ATOM	1426	CE MET	88	9.263	-4.404	8.464	1.00	0.00
ATOM	1427	HE1 MET	88	9.068	-3.412	8.057	1.00	0.00
ATOM	1428	HE2 MET	88	10.142	-4.365	9.108	1.00	0.00

ATOM	1429	HE3	MET	88	9.443	-5.103	7.647	1.00	0.00
ATOM	1430	C	MET	88	6.752	-6.192	4.470	1.00	0.00
ATOM	1431	O	MET	88	6.613	-5.472	3.481	1.00	0.00
ATOM	1432	N	ARG	89	7.423	-7.339	4.441	1.00	0.00
ATOM	1433	H	ARG	89	7.534	-7.895	5.277	1.00	0.00
ATOM	1434	CA	ARG	89	8.043	-7.812	3.210	1.00	0.00
ATOM	1435	HA	ARG	89	8.767	-7.080	2.851	1.00	0.00
ATOM	1436	CB	ARG	89	8.771	-9.136	3.464	1.00	0.00
ATOM	1437	HB2	ARG	89	8.066	-9.867	3.860	1.00	0.00
ATOM	1438	HB3	ARG	89	9.189	-9.505	2.528	1.00	0.00
ATOM	1439	CG	ARG	89	9.902	-8.917	4.477	1.00	0.00
ATOM	1440	HG2	ARG	89	9.510	-8.395	5.350	1.00	0.00
ATOM	1441	HG3	ARG	89	10.306	-9.882	4.783	1.00	0.00
ATOM	1442	CD	ARG	89	11.013	-8.078	3.837	1.00	0.00
ATOM	1443	HD2	ARG	89	11.364	-8.563	2.926	1.00	0.00
ATOM	1444	HD3	ARG	89	10.634	-7.085	3.597	1.00	0.00
ATOM	1445	NE	ARG	89	12.138	-7.939	4.756	1.00	0.00
ATOM	1446	HE	ARG	89	12.948	-8.535	4.658	1.00	0.00
ATOM	1447	CZ	ARG	89	12.129	-7.035	5.734	1.00	0.00
ATOM	1448	NH1	ARG	89	11.092	-6.258	5.901	1.00	0.00
ATOM	1449	HH11	ARG	89	10.296	-6.345	5.286	1.00	0.00
ATOM	1450	HH12	ARG	89	11.092	-5.575	6.645	1.00	0.00

ATOM	1451	NH2	ARG	89	13.157	-6.927	6.528	1.00	0.00
ATOM	1452	HH21	ARG	89	13.957	-7.530	6.399	1.00	0.00
ATOM	1453	HH22	ARG	89	13.149	-6.241	7.270	1.00	0.00
ATOM	1454	C	ARG	89	6.982	-7.999	2.128	1.00	0.00
ATOM	1455	O	ARG	89	7.174	-7.605	0.977	1.00	0.00
ATOM	1456	N	LEU	90	5.856	-8.594	2.519	1.00	0.00
ATOM	1457	H	LEU	90	5.758	-8.910	3.473	1.00	0.00
ATOM	1458	CA	LEU	90	4.752	-8.827	1.596	1.00	0.00
ATOM	1459	HA	LEU	90	5.086	-9.428	0.750	1.00	0.00
ATOM	1460	CB	LEU	90	3.633	-9.583	2.322	1.00	0.00
ATOM	1461	HB2	LEU	90	4.050	-10.460	2.818	1.00	0.00
ATOM	1462	HB3	LEU	90	3.188	-8.923	3.067	1.00	0.00
ATOM	1463	CG	LEU	90	2.557	-10.024	1.321	1.00	0.00
ATOM	1464	HG	LEU	90	3.015	-10.198	0.348	1.00	0.00
ATOM	1465	CD1	LEU	90	1.901	-11.317	1.814	1.00	0.00
ATOM	1466	HD11	LEU	90	1.443	-11.144	2.788	1.00	0.00
ATOM	1467	HD12	LEU	90	1.137	-11.631	1.104	1.00	0.00
ATOM	1468	HD13	LEU	90	2.657	-12.098	1.903	1.00	0.00
ATOM	1469	CD2	LEU	90	1.487	-8.932	1.202	1.00	0.00
ATOM	1470	HD21	LEU	90	1.948	-8.008	0.855	1.00	0.00
ATOM	1471	HD22	LEU	90	0.724	-9.247	0.491	1.00	0.00
ATOM	1472	HD23	LEU	90	1.028	-8.765	2.177	1.00	0.00

ATOM	1473	C	LEU	90	4.217	-7.504	1.058	1.00	0.00
ATOM	1474	O	LEU	90	3.892	-7.388	-0.124	1.00	0.00
ATOM	1475	N	ALA	91	4.122	-6.513	1.941	1.00	0.00
ATOM	1476	H	ALA	91	4.383	-6.663	2.906	1.00	0.00
ATOM	1477	CA	ALA	91	3.617	-5.201	1.557	1.00	0.00
ATOM	1478	HA	ALA	91	2.577	-5.276	1.240	1.00	0.00
ATOM	1479	CB	ALA	91	3.698	-4.241	2.747	1.00	0.00
ATOM	1480	HB1	ALA	91	4.735	-4.149	3.071	1.00	0.00
ATOM	1481	HB2	ALA	91	3.323	-3.262	2.451	1.00	0.00
ATOM	1482	HB3	ALA	91	3.095	-4.628	3.569	1.00	0.00
ATOM	1483	C	ALA	91	4.419	-4.642	0.390	1.00	0.00
ATOM	1484	O	ALA	91	3.852	-4.239	-0.619	1.00	0.00
ATOM	1485	N	GLU	92	5.741	-4.630	0.538	1.00	0.00
ATOM	1486	H	GLU	92	6.154	-4.951	1.402	1.00	0.00
ATOM	1487	CA	GLU	92	6.629	-4.130	-0.511	1.00	0.00
ATOM	1488	HA	GLU	92	6.394	-3.091	-0.740	1.00	0.00
ATOM	1489	CB	GLU	92	8.083	-4.209	-0.037	1.00	0.00
ATOM	1490	HB2	GLU	92	8.176	-3.707	0.926	1.00	0.00
ATOM	1491	HB3	GLU	92	8.372	-5.255	0.070	1.00	0.00
ATOM	1492	CG	GLU	92	9.002	-3.527	-1.060	1.00	0.00
ATOM	1493	HG2	GLU	92	8.850	-3.990	-2.035	1.00	0.00
ATOM	1494	HG3	GLU	92	8.743	-2.470	-1.115	1.00	0.00

ATOM	1495	CD	GLU	92	10.469	-3.671	-0.651	1.00	0.00
ATOM	1496	OE1	GLU	92	10.732	-4.307	0.360	1.00	0.00
ATOM	1497	OE2	GLU	92	11.311	-3.143	-1.357	1.00	0.00
ATOM	1498	C	GLU	92	6.461	-4.932	-1.801	1.00	0.00
ATOM	1499	O	GLU	92	6.654	-4.405	-2.896	1.00	0.00
ATOM	1500	N	ASN	93	6.117	-6.210	-1.662	1.00	0.00
ATOM	1501	H	ASN	93	5.992	-6.609	-0.742	1.00	0.00
ATOM	1502	CA	ASN	93	5.945	-7.081	-2.825	1.00	0.00
ATOM	1503	HA	ASN	93	6.807	-6.995	-3.487	1.00	0.00
ATOM	1504	CB	ASN	93	5.818	-8.540	-2.373	1.00	0.00
ATOM	1505	HB2	ASN	93	4.996	-8.638	-1.664	1.00	0.00
ATOM	1506	HB3	ASN	93	5.633	-9.182	-3.234	1.00	0.00
ATOM	1507	CG	ASN	93	7.107	-8.998	-1.691	1.00	0.00
ATOM	1508	OD1	ASN	93	8.122	-8.182	-1.603	1.00	0.00
ATOM	1509	ND2	ASN	93	7.189	-10.135	-1.226	1.00	0.00
ATOM	1510	HD21	ASN	93	8.043	-10.433	-0.776	1.00	0.00
ATOM	1511	HD22	ASN	93	6.402	-10.764	-1.296	1.00	0.00
ATOM	1512	C	ASN	93	4.710	-6.691	-3.638	1.00	0.00
ATOM	1513	O	ASN	93	4.711	-6.804	-4.864	1.00	0.00
ATOM	1514	N	ILE	94	3.658	-6.239	-2.955	1.00	0.00
ATOM	1515	H	ILE	94	3.680	-6.197	-1.946	1.00	0.00
ATOM	1516	CA	ILE	94	2.426	-5.847	-3.639	1.00	0.00

ATOM	1517	HA	ILE	94	1.977	-6.726	-4.102	1.00	0.00
ATOM	1518	CB	ILE	94	1.438	-5.237	-2.632	1.00	0.00
ATOM	1519	HB	ILE	94	1.986	-4.609	-1.929	1.00	0.00
ATOM	1520	CG2	ILE	94	0.390	-4.390	-3.365	1.00	0.00
ATOM	1521	HG21	ILE	94	-0.158	-5.018	-4.067	1.00	0.00
ATOM	1522	HG22	ILE	94	-0.304	-3.964	-2.641	1.00	0.00
ATOM	1523	HG23	ILE	94	0.887	-3.587	-3.908	1.00	0.00
ATOM	1524	CG1	ILE	94	0.734	-6.368	-1.870	1.00	0.00
ATOM	1525	HG12	ILE	94	-0.054	-6.789	-2.494	1.00	0.00
ATOM	1526	HG13	ILE	94	1.459	-7.146	-1.626	1.00	0.00
ATOM	1527	CD1	ILE	94	0.122	-5.818	-0.578	1.00	0.00
ATOM	1528	HD11	ILE	94	-0.602	-5.041	-0.820	1.00	0.00
ATOM	1529	HD12	ILE	94	-0.377	-6.624	-0.040	1.00	0.00
ATOM	1530	HD13	ILE	94	0.910	-5.398	0.048	1.00	0.00
ATOM	1531	C	ILE	94	2.722	-4.856	-4.773	1.00	0.00
ATOM	1532	O	ILE	94	2.369	-5.106	-5.925	1.00	0.00
ATOM	1533	N	PRO	95	3.362	-3.751	-4.477	1.00	0.00
ATOM	1534	CD	PRO	95	3.818	-3.355	-3.136	1.00	0.00
ATOM	1535	HD2	PRO	95	4.389	-4.174	-2.698	1.00	0.00
ATOM	1536	HD3	PRO	95	2.949	-3.145	-2.512	1.00	0.00
ATOM	1537	CG	PRO	95	4.670	-2.114	-3.384	1.00	0.00
ATOM	1538	HG2	PRO	95	5.720	-2.403	-3.445	1.00	0.00

ATOM	1539	HG3	PRO	95	4.535	-1.412	-2.561	1.00	0.00
ATOM	1540	CB	PRO	95	4.191	-1.529	-4.666	1.00	0.00
ATOM	1541	HB2	PRO	95	5.021	-1.035	-5.170	1.00	0.00
ATOM	1542	HB3	PRO	95	3.376	-0.820	-4.527	1.00	0.00
ATOM	1543	CA	PRO	95	3.711	-2.720	-5.499	1.00	0.00
ATOM	1544	HA	PRO	95	2.808	-2.492	-6.065	1.00	0.00
ATOM	1545	C	PRO	95	4.809	-3.184	-6.458	1.00	0.00
ATOM	1546	O	PRO	95	4.904	-2.689	-7.577	1.00	0.00
ATOM	1547	N	SER	96	5.628	-4.144	-6.018	1.00	0.00
ATOM	1548	H	SER	96	5.522	-4.518	-5.086	1.00	0.00
ATOM	1549	CA	SER	96	6.703	-4.670	-6.858	1.00	0.00
ATOM	1550	HA	SER	96	7.364	-3.858	-7.161	1.00	0.00
ATOM	1551	CB	SER	96	7.525	-5.710	-6.094	1.00	0.00
ATOM	1552	HB2	SER	96	6.884	-6.545	-5.810	1.00	0.00
ATOM	1553	HB3	SER	96	8.334	-6.073	-6.728	1.00	0.00
ATOM	1554	OG	SER	96	8.070	-5.114	-4.926	1.00	0.00
ATOM	1555	HG	SER	96	8.586	-5.766	-4.445	1.00	0.00
ATOM	1556	C	SER	96	6.090	-5.300	-8.081	1.00	0.00
ATOM	1557	O	SER	96	6.566	-5.150	-9.207	1.00	0.00
ATOM	1558	N	ARG	97	5.009	-5.999	-7.812	1.00	0.00
ATOM	1559	H	ARG	97	4.708	-6.078	-6.851	1.00	0.00
ATOM	1560	CA	ARG	97	4.247	-6.682	-8.824	1.00	0.00



ATOM	1561	HA	ARG	97	4.839	-7.463	-9.302	1.00	0.00
ATOM	1562	CB	ARG	97	3.048	-7.329	-8.143	1.00	0.00
ATOM	1563	HB2	ARG	97	2.589	-6.613	-7.462	1.00	0.00
ATOM	1564	HB3	ARG	97	2.322	-7.628	-8.898	1.00	0.00
ATOM	1565	CG	ARG	97	3.503	-8.563	-7.355	1.00	0.00
ATOM	1566	HG2	ARG	97	4.042	-9.238	-8.020	1.00	0.00
ATOM	1567	HG3	ARG	97	4.162	-8.251	-6.544	1.00	0.00
ATOM	1568	CD	ARG	97	2.286	-9.286	-6.773	1.00	0.00
ATOM	1569	HD2	ARG	97	1.647	-9.643	-7.581	1.00	0.00
ATOM	1570	HD3	ARG	97	2.613	-10.132	-6.168	1.00	0.00
ATOM	1571	NE	ARG	97	1.511	-8.379	-5.929	1.00	0.00
ATOM	1572	HE	ARG	97	1.778	-8.239	-4.965	1.00	0.00
ATOM	1573	CZ	ARG	97	0.450	-7.723	-6.397	1.00	0.00
ATOM	1574	NH1	ARG	97	0.064	-7.884	-7.635	1.00	0.00
ATOM	1575	HH11	ARG	97	0.574	-8.510	-8.242	1.00	0.00
ATOM	1576	HH12	ARG	97	-0.741	-7.382	-7.979	1.00	0.00
ATOM	1577	NH2	ARG	97	-0.207	-6.914	-5.614	1.00	0.00
ATOM	1578	HH21	ARG	97	0.092	-6.789	-4.657	1.00	0.00
ATOM	1579	HH22	ARG	97	-1.011	-6.416	-5.967	1.00	0.00
ATOM	1580	C	ARG	97	3.782	-5.725	-9.921	1.00	0.00
ATOM	1581	O	ARG	97	3.726	-6.099	-11.093	1.00	0.00
ATOM	1582	N	CYX	98	3.459	-4.490	-9.538	1.00	0.00

ATOM	1583	H	CYX	98	3.523	-4.222	-8.566	1.00	0.00
ATOM	1584	CA	CYX	98	3.012	-3.495	-10.500	1.00	0.00
ATOM	1585	HA	CYX	98	2.697	-3.993	-11.417	1.00	0.00
ATOM	1586	CB	CYX	98	1.836	-2.688	-9.953	1.00	0.00
ATOM	1587	HB2	CYX	98	2.202	-1.751	-9.533	1.00	0.00
ATOM	1588	HB3	CYX	98	1.135	-2.475	-10.759	1.00	0.00
ATOM	1589	SG	CYX	98	1.007	-3.622	-8.640	1.00	0.00
ATOM	1590	C	CYX	98	4.132	-2.536	-10.814	1.00	0.00
ATOM	1591	O	CYX	98	4.015	-1.720	-11.728	1.00	0.00
ATOM	1592	N	ASN	99	5.205	-2.602	-10.032	1.00	0.00
ATOM	1593	H	ASN	99	5.254	-3.233	-9.244	1.00	0.00
ATOM	1594	CA	ASN	99	6.300	-1.685	-10.243	1.00	0.00
ATOM	1595	HA	ASN	99	5.919	-0.671	-10.123	1.00	0.00
ATOM	1596	CB	ASN	99	7.457	-1.880	-9.294	1.00	0.00
ATOM	1597	HB2	ASN	99	7.592	-2.937	-9.065	1.00	0.00
ATOM	1598	HB3	ASN	99	8.372	-1.485	-9.736	1.00	0.00
ATOM	1599	CG	ASN	99	7.181	-1.132	-7.995	1.00	0.00
ATOM	1600	OD1	ASN	99	7.477	-1.629	-6.909	1.00	0.00
ATOM	1601	ND2	ASN	99	6.631	0.052	-8.050	1.00	0.00
ATOM	1602	HD21	ASN	99	6.443	0.558	-7.196	1.00	0.00
ATOM	1603	HD22	ASN	99	6.397	0.455	-8.945	1.00	0.00
ATOM	1604	C	ASN	99	6.796	-1.746	-11.654	1.00	0.00

ATOM	1605	O	ASN	99	6.624	-2.732	-12.374	1.00	0.00
ATOM	1606	N	LEU	100	7.325	-0.621	-12.049	1.00	0.00
ATOM	1607	H	LEU	100	7.427	0.138	-11.390	1.00	0.00
ATOM	1608	CA	LEU	100	7.772	-0.416	-13.401	1.00	0.00
ATOM	1609	HA	LEU	100	8.100	-1.346	-13.865	1.00	0.00
ATOM	1610	CB	LEU	100	6.562	0.119	-14.176	1.00	0.00
ATOM	1611	HB2	LEU	100	6.878	0.989	-14.751	1.00	0.00
ATOM	1612	HB3	LEU	100	6.163	-0.638	-14.851	1.00	0.00
ATOM	1613	CG	LEU	100	5.462	0.540	-13.163	1.00	0.00
ATOM	1614	HG	LEU	100	5.463	-0.153	-12.321	1.00	0.00
ATOM	1615	CD1	LEU	100	5.737	1.956	-12.657	1.00	0.00
ATOM	1616	HD11	LEU	100	5.736	2.649	-13.498	1.00	0.00
ATOM	1617	HD12	LEU	100	4.963	2.245	-11.947	1.00	0.00
ATOM	1618	HD13	LEU	100	6.709	1.984	-12.164	1.00	0.00
ATOM	1619	CD2	LEU	100	4.091	0.473	-13.819	1.00	0.00
ATOM	1620	HD21	LEU	100	3.897	-0.547	-14.153	1.00	0.00
ATOM	1621	HD22	LEU	100	3.329	0.770	-13.099	1.00	0.00
ATOM	1622	HD23	LEU	100	4.064	1.147	-14.675	1.00	0.00
ATOM	1623	C	LEU	100	8.921	0.587	-13.431	1.00	0.00
ATOM	1624	O	LEU	100	8.895	1.581	-12.708	1.00	0.00
ATOM	1625	N	SER	101	9.925	0.306	-14.265	1.00	0.00
ATOM	1626	H	SER	101	9.891	-0.538	-14.819	1.00	0.00

ATOM	1627	CA	SER	101	11.101	1.172	-14.390	1.00	0.00
ATOM	1628	HA	SER	101	11.838	0.919	-13.627	1.00	0.00
ATOM	1629	CB	SER	101	11.738	0.980	-15.768	1.00	0.00
ATOM	1630	HB2	SER	101	12.025	-0.064	-15.895	1.00	0.00
ATOM	1631	HB3	SER	101	11.023	1.257	-16.542	1.00	0.00
ATOM	1632	OG	SER	101	12.892	1.804	-15.872	1.00	0.00
ATOM	1633	HG	SER	101	13.294	1.685	-16.736	1.00	0.00
ATOM	1634	C	SER	101	10.724	2.641	-14.202	1.00	0.00
ATOM	1635	O	SER	101	10.275	3.305	-15.137	1.00	0.00
ATOM	1636	N	PRO	102	10.895	3.150	-13.007	1.00	0.00
ATOM	1637	CD	PRO	102	11.409	2.444	-11.837	1.00	0.00
ATOM	1638	HD2	PRO	102	12.484	2.602	-11.743	1.00	0.00
ATOM	1639	HD3	PRO	102	11.206	1.376	-11.922	1.00	0.00
ATOM	1640	CG	PRO	102	10.622	3.096	-10.712	1.00	0.00
ATOM	1641	HG2	PRO	102	11.205	3.048	-9.792	1.00	0.00
ATOM	1642	HG3	PRO	102	9.682	2.561	-10.574	1.00	0.00
ATOM	1643	CB	PRO	102	10.374	4.518	-11.132	1.00	0.00
ATOM	1644	HB2	PRO	102	11.117	5.150	-10.645	1.00	0.00
ATOM	1645	HB3	PRO	102	9.375	4.870	-10.877	1.00	0.00
ATOM	1646	CA	PRO	102	10.572	4.558	-12.661	1.00	0.00
ATOM	1647	HA	PRO	102	9.661	4.840	-13.188	1.00	0.00
ATOM	1648	C	PRO	102	11.699	5.510	-13.049	1.00	0.00

ATOM	1649	O	PRO	102	12.817	5.398	-12.542	1.00	0.00
ATOM	1650	N	MET	103	11.403	6.442	-13.951	1.00	0.00
ATOM	1651	H	MET	103	10.480	6.493	-14.358	1.00	0.00
ATOM	1652	CA	MET	103	12.408	7.399	-14.395	1.00	0.00
ATOM	1653	HA	MET	103	13.313	6.875	-14.703	1.00	0.00
ATOM	1654	CB	MET	103	11.875	8.200	-15.588	1.00	0.00
ATOM	1655	HB2	MET	103	10.949	8.698	-15.303	1.00	0.00
ATOM	1656	HB3	MET	103	12.614	8.946	-15.880	1.00	0.00
ATOM	1657	CG	MET	103	11.606	7.258	-16.767	1.00	0.00
ATOM	1658	HG2	MET	103	10.819	6.553	-16.499	1.00	0.00
ATOM	1659	HG3	MET	103	11.293	7.838	-17.634	1.00	0.00
ATOM	1660	SD	MET	103	13.113	6.341	-17.177	1.00	0.00
ATOM	1661	CE	MET	103	14.129	7.758	-17.664	1.00	0.00
ATOM	1662	HE1	MET	103	14.222	8.445	-16.823	1.00	0.00
ATOM	1663	HE2	MET	103	15.119	7.411	-17.960	1.00	0.00
ATOM	1664	HE3	MET	103	13.659	8.271	-18.502	1.00	0.00
ATOM	1665	C	MET	103	12.776	8.352	-13.263	1.00	0.00
ATOM	1666	O	MET	103	13.942	8.444	-12.874	1.00	0.00
ATOM	1667	N	ARG	104	11.775	9.052	-12.732	1.00	0.00
ATOM	1668	H	ARG	104	10.836	8.959	-13.091	1.00	0.00
ATOM	1669	CA	ARG	104	12.007	9.987	-11.635	1.00	0.00
ATOM	1670	HA	ARG	104	12.828	9.636	-11.010	1.00	0.00

ATOM	1671	CB	ARG	104	12.374	11.367	-12.197	1.00	0.00
ATOM	1672	HB2	ARG	104	12.074	11.419	-13.243	1.00	0.00
ATOM	1673	HB3	ARG	104	11.850	12.136	-11.630	1.00	0.00
ATOM	1674	CG	ARG	104	13.888	11.593	-12.087	1.00	0.00
ATOM	1675	HG2	ARG	104	14.410	10.777	-12.588	1.00	0.00
ATOM	1676	HG3	ARG	104	14.146	12.537	-12.566	1.00	0.00
ATOM	1677	CD	ARG	104	14.307	11.638	-10.612	1.00	0.00
ATOM	1678	HD2	ARG	104	14.482	10.625	-10.249	1.00	0.00
ATOM	1679	HD3	ARG	104	15.221	12.223	-10.507	1.00	0.00
ATOM	1680	NE	ARG	104	13.261	12.253	-9.798	1.00	0.00
ATOM	1681	HE	ARG	104	12.659	11.673	-9.231	1.00	0.00
ATOM	1682	CZ	ARG	104	13.073	13.571	-9.781	1.00	0.00
ATOM	1683	NH1	ARG	104	13.836	14.353	-10.497	1.00	0.00
ATOM	1684	HH11	ARG	104	14.571	13.955	-11.064	1.00	0.00
ATOM	1685	HH12	ARG	104	13.688	15.352	-10.479	1.00	0.00
ATOM	1686	NH2	ARG	104	12.126	14.082	-9.046	1.00	0.00
ATOM	1687	HH21	ARG	104	11.538	13.475	-8.492	1.00	0.00
ATOM	1688	HH22	ARG	104	11.985	15.082	-9.034	1.00	0.00
ATOM	1689	C	ARG	104	10.769	10.116	-10.749	1.00	0.00
ATOM	1690	O	ARG	104	9.644	10.173	-11.245	1.00	0.00
ATOM	1691	N	CYX	105	10.994	10.193	-9.438	1.00	0.00
ATOM	1692	H	CYX	105	11.936	10.125	-9.079	1.00	0.00

ATOM	1693	CA	CYX	105	9.900	10.353	-8.484	1.00	0.00
ATOM	1694	HA	CYX	105	8.947	10.181	-8.983	1.00	0.00
ATOM	1695	CB	CYX	105	10.039	9.349	-7.337	1.00	0.00
ATOM	1696	HB2	CYX	105	11.075	9.325	-6.998	1.00	0.00
ATOM	1697	HB3	CYX	105	9.394	9.648	-6.511	1.00	0.00
ATOM	1698	SG	CYX	105	9.580	7.695	-7.917	1.00	0.00
ATOM	1699	C	CYX	105	9.906	11.777	-7.926	1.00	0.00
ATOM	1700	O	CYX	105	10.815	12.149	-7.184	1.00	0.00
ATOM	1701	N	PRO	106	8.923	12.577	-8.268	1.00	0.00
ATOM	1702	CD	PRO	106	7.805	12.230	-9.157	1.00	0.00
ATOM	1703	HD2	PRO	106	7.113	11.577	-8.624	1.00	0.00
ATOM	1704	HD3	PRO	106	8.192	11.710	-10.033	1.00	0.00
ATOM	1705	CG	PRO	106	7.184	13.583	-9.508	1.00	0.00
ATOM	1706	HG2	PRO	106	6.105	13.464	-9.604	1.00	0.00
ATOM	1707	HG3	PRO	106	7.597	13.928	-10.456	1.00	0.00
ATOM	1708	CB	PRO	106	7.533	14.523	-8.401	1.00	0.00
ATOM	1709	HB2	PRO	106	6.739	14.526	-7.654	1.00	0.00
ATOM	1710	HB3	PRO	106	7.688	15.537	-8.770	1.00	0.00
ATOM	1711	CA	PRO	106	8.826	13.990	-7.783	1.00	0.00
ATOM	1712	HA	PRO	106	9.698	14.526	-8.157	1.00	0.00
ATOM	1713	C	PRO	106	8.773	14.104	-6.265	1.00	0.00
ATOM	1714	O	PRO	106	8.596	15.194	-5.724	1.00	0.00

ATOM	1715	N	MET	107	8.927	12.981	-5.587	1.00	0.00
ATOM	1716	H	MET	107	9.085	12.108	-6.070	1.00	0.00
ATOM	1717	CA	MET	107	8.895	12.968	-4.136	1.00	0.00
ATOM	1718	HA	MET	107	8.068	13.574	-3.766	1.00	0.00
ATOM	1719	CB	MET	107	8.703	11.550	-3.661	1.00	0.00
ATOM	1720	HB2	MET	107	9.309	10.884	-4.275	1.00	0.00
ATOM	1721	HB3	MET	107	9.024	11.476	-2.622	1.00	0.00
ATOM	1722	CG	MET	107	7.228	11.145	-3.770	1.00	0.00
ATOM	1723	HG2	MET	107	7.149	10.211	-4.327	1.00	0.00
ATOM	1724	HG3	MET	107	6.816	11.007	-2.770	1.00	0.00
ATOM	1725	SD	MET	107	6.287	12.434	-4.631	1.00	0.00
ATOM	1726	CE	MET	107	6.264	11.660	-6.265	1.00	0.00
ATOM	1727	HE1	MET	107	5.769	10.691	-6.202	1.00	0.00
ATOM	1728	HE2	MET	107	5.724	12.299	-6.963	1.00	0.00
ATOM	1729	HE3	MET	107	7.287	11.522	-6.616	1.00	0.00
ATOM	1730	C	MET	107	10.202	13.490	-3.585	1.00	0.00
ATOM	1731	O	MET	107	11.151	12.737	-3.358	1.00	0.00
ATOM	1732	N	GLY	108	10.236	14.786	-3.378	1.00	0.00
ATOM	1733	H	GLY	108	9.428	15.356	-3.583	1.00	0.00
ATOM	1734	CA	GLY	108	11.419	15.435	-2.855	1.00	0.00
ATOM	1735	HA2	GLY	108	11.155	16.431	-2.501	1.00	0.00
ATOM	1736	HA3	GLY	108	11.814	14.848	-2.025	1.00	0.00



ATOM	1737	C	GLY	108	12.493	15.559	-3.930	1.00	0.00
ATOM	1738	O	GLY	108	13.685	15.615	-3.626	1.00	0.00
ATOM	1739	N	GLY	109	12.056	15.608	-5.187	1.00	0.00
ATOM	1740	H	GLY	109	11.067	15.557	-5.384	1.00	0.00
ATOM	1741	CA	GLY	109	12.981	15.735	-6.310	1.00	0.00
ATOM	1742	HA2	GLY	109	12.426	15.626	-7.241	1.00	0.00
ATOM	1743	HA3	GLY	109	13.447	16.720	-6.277	1.00	0.00
ATOM	1744	C	GLY	109	14.072	14.668	-6.255	1.00	0.00
ATOM	1745	O	GLY	109	15.243	14.980	-6.034	1.00	0.00
ATOM	1746	N	SER	110	13.681	13.410	-6.459	1.00	0.00
ATOM	1747	H	SER	110	12.707	13.195	-6.615	1.00	0.00
ATOM	1748	CA	SER	110	14.639	12.305	-6.432	1.00	0.00
ATOM	1749	HA	SER	110	15.069	12.208	-5.435	1.00	0.00
ATOM	1750	CB	SER	110	13.939	10.995	-6.791	1.00	0.00
ATOM	1751	HB2	SER	110	13.575	11.045	-7.817	1.00	0.00
ATOM	1752	HB3	SER	110	14.642	10.167	-6.695	1.00	0.00
ATOM	1753	OG	SER	110	12.843	10.790	-5.908	1.00	0.00
ATOM	1754	HG	SER	110	12.402	9.967	-6.131	1.00	0.00
ATOM	1755	C	SER	110	15.782	12.566	-7.411	1.00	0.00
ATOM	1756	O	SER	110	15.625	13.317	-8.374	1.00	0.00
ATOM	1757	N	ILE	111	16.933	11.949	-7.156	1.00	0.00
ATOM	1758	H	ILE	111	17.031	11.360	-6.341	1.00	0.00

ATOM	1759	CA	ILE	111	18.096	12.133	-8.021	1.00	0.00
ATOM	1760	HA	ILE	111	18.006	13.082	-8.549	1.00	0.00
ATOM	1761	CB	ILE	111	19.378	12.137	-7.180	1.00	0.00
ATOM	1762	HB	ILE	111	19.474	11.183	-6.660	1.00	0.00
ATOM	1763	CG2	ILE	111	20.592	12.345	-8.093	1.00	0.00
ATOM	1764	HG21	ILE	111	20.498	13.298	-8.612	1.00	0.00
ATOM	1765	HG22	ILE	111	21.502	12.347	-7.493	1.00	0.00
ATOM	1766	HG23	ILE	111	20.641	11.537	-8.823	1.00	0.00
ATOM	1767	CG1	ILE	111	19.309	13.275	-6.153	1.00	0.00
ATOM	1768	HG12	ILE	111	19.338	14.233	-6.672	1.00	0.00
ATOM	1769	HG13	ILE	111	18.380	13.196	-5.588	1.00	0.00
ATOM	1770	CD1	ILE	111	20.499	13.178	-5.194	1.00	0.00
ATOM	1771	HD11	ILE	111	21.429	13.256	-5.758	1.00	0.00
ATOM	1772	HD12	ILE	111	20.447	13.987	-4.466	1.00	0.00
ATOM	1773	HD13	ILE	111	20.471	12.220	-4.674	1.00	0.00
ATOM	1774	C	ILE	111	18.165	11.028	-9.073	1.00	0.00
ATOM	1775	O	ILE	111	17.773	11.228	-10.224	1.00	0.00
ATOM	1776	N	ALA	112	18.640	9.855	-8.659	1.00	0.00
ATOM	1777	H	ALA	112	18.941	9.743	-7.701	1.00	0.00
ATOM	1778	CA	ALA	112	18.731	8.711	-9.547	1.00	0.00
ATOM	1779	HA	ALA	112	19.220	8.957	-10.489	1.00	0.00
ATOM	1780	CB	ALA	112	19.508	7.583	-8.875	1.00	0.00

ATOM	1781	HB1	ALA	112	19.025	7.319	-7.934	1.00	0.00
ATOM	1782	HB2	ALA	112	19.526	6.712	-9.530	1.00	0.00
ATOM	1783	HB3	ALA	112	20.529	7.910	-8.679	1.00	0.00
ATOM	1784	C	ALA	112	17.340	8.235	-9.856	1.00	0.00
ATOM	1785	O	ALA	112	16.364	8.913	-9.530	1.00	0.00
ATOM	1786	N	GLY	113	17.226	7.051	-10.429	1.00	0.00
ATOM	1787	H	GLY	113	18.015	6.482	-10.702	1.00	0.00
ATOM	1788	CA	GLY	113	15.907	6.547	-10.675	1.00	0.00
ATOM	1789	HA2	GLY	113	15.253	7.332	-11.052	1.00	0.00
ATOM	1790	HA3	GLY	113	15.931	5.721	-11.386	1.00	0.00
ATOM	1791	C	GLY	113	15.362	6.044	-9.354	1.00	0.00
ATOM	1792	O	GLY	113	15.651	4.925	-8.928	1.00	0.00
ATOM	1793	N	PHE	114	14.602	6.911	-8.702	1.00	0.00
ATOM	1794	H	PHE	114	14.427	7.820	-9.105	1.00	0.00
ATOM	1795	CA	PHE	114	14.025	6.611	-7.396	1.00	0.00
ATOM	1796	HA	PHE	114	14.772	6.749	-6.614	1.00	0.00
ATOM	1797	CB	PHE	114	12.850	7.552	-7.121	1.00	0.00
ATOM	1798	HB2	PHE	114	13.138	8.601	-7.191	1.00	0.00
ATOM	1799	HB3	PHE	114	12.009	7.361	-7.787	1.00	0.00
ATOM	1800	CG	PHE	114	12.344	7.336	-5.712	1.00	0.00
ATOM	1801	CD1	PHE	114	12.952	8.004	-4.641	1.00	0.00
ATOM	1802	HD1	PHE	114	13.790	8.677	-4.822	1.00	0.00

ATOM	1803	CE1 PHE	114	12.483	7.806	-3.337	1.00	0.00
ATOM	1804	HE1 PHE	114	12.956	8.326	-2.504	1.00	0.00
ATOM	1805	CZ PHE	114	11.409	6.941	-3.102	1.00	0.00
ATOM	1806	HZ PHE	114	11.046	6.787	-2.086	1.00	0.00
ATOM	1807	CE2 PHE	114	10.801	6.273	-4.172	1.00	0.00
ATOM	1808	HE2 PHE	114	9.965	5.599	-3.989	1.00	0.00
ATOM	1809	CD2 PHE	114	11.268	6.471	-5.477	1.00	0.00
ATOM	1810	HD2 PHE	114	10.794	5.952	-6.310	1.00	0.00
ATOM	1811	C PHE	114	13.545	5.160	-7.323	1.00	0.00
ATOM	1812	O PHE	114	13.946	4.471	-6.400	1.00	0.00
ATOM	1813	OXT PHE	114	12.783	4.762	-8.190	1.00	0.00
TER								
ATOM	1814	CI1 LIG	115	19.563	-14.861	-5.275	1.00	0.00
ATOM	1815	CI2 LIG	115	20.572	-17.559	-5.900	1.00	0.00
ATOM	1816	P1 LIG	115	18.426	-18.906	-2.054	1.00	0.00
ATOM	1817	O1 LIG	115	17.946	-20.373	-2.456	1.00	0.00
ATOM	1818	O2 LIG	115	19.741	-19.198	-1.220	1.00	0.00
ATOM	1819	O3 LIG	115	18.955	-18.356	-3.514	1.00	0.00
ATOM	1820	O4 LIG	115	17.473	-17.994	-1.407	1.00	0.00
ATOM	1821	C1 LIG	115	16.751	-20.588	-3.242	1.00	0.00
ATOM	1822	H1 LIG	115	16.588	-21.663	-3.249	1.00	0.00
ATOM	1823	H2 LIG	115	16.905	-20.227	-4.260	1.00	0.00

ATOM	1824	H3	LIG	115	15.901	-20.083	-2.782	1.00	0.00
ATOM	1825	C2	LIG	115	20.803	-20.069	-1.676	1.00	0.00
ATOM	1826	H4	LIG	115	21.183	-19.729	-2.640	1.00	0.00
ATOM	1827	H5	LIG	115	20.435	-21.093	-1.753	1.00	0.00
ATOM	1828	H6	LIG	115	21.582	-20.002	-0.921	1.00	0.00
ATOM	1829	C3	LIG	115	18.941	-17.019	-3.815	1.00	0.00
ATOM	1830	H7	LIG	115	18.346	-16.377	-3.178	1.00	0.00
ATOM	1831	C4	LIG	115	19.614	-16.550	-4.864	1.00	0.00
TER									
ATOM	1832	Cl1	LIG	116	-18.105	16.421	2.805	1.00	0.00
ATOM	1833	Cl2	LIG	116	-17.645	17.084	5.640	1.00	0.00
ATOM	1834	P1	LIG	116	-19.445	21.204	4.639	1.00	0.00
ATOM	1835	O1	LIG	116	-20.209	21.554	5.995	1.00	0.00
ATOM	1836	O2	LIG	116	-18.095	22.020	4.791	1.00	0.00
ATOM	1837	O3	LIG	116	-19.035	19.635	4.926	1.00	0.00
ATOM	1838	O4	LIG	116	-20.140	21.392	3.357	1.00	0.00
ATOM	1839	C1	LIG	116	-21.518	21.012	6.286	1.00	0.00
ATOM	1840	H1	LIG	116	-21.854	21.515	7.190	1.00	0.00
ATOM	1841	H2	LIG	116	-21.445	19.938	6.461	1.00	0.00
ATOM	1842	H3	LIG	116	-22.204	21.221	5.464	1.00	0.00
ATOM	1843	C2	LIG	116	-17.262	21.977	5.973	1.00	0.00
ATOM	1844	H4	LIG	116	-16.965	20.950	6.190	1.00	0.00

ATOM	1845	H5	LIG	116	-17.799	22.404	6.821	1.00	0.00
ATOM	1846	H6	LIG	116	-16.388	22.579	5.738	1.00	0.00
ATOM	1847	C3	LIG	116	-18.870	18.745	3.896	1.00	0.00
ATOM	1848	H7	LIG	116	-19.260	19.034	2.929	1.00	0.00
ATOM	1849	C4	LIG	116	-18.276	17.571	4.100	1.00	0.00
TER									
ATOM	1850	Cl1	LIG	117	-6.782	-10.137	-19.452	1.00	0.00
ATOM	1851	Cl2	LIG	117	-4.261	-9.069	-18.359	1.00	0.00
ATOM	1852	P1	LIG	117	-6.020	-10.039	-14.213	1.00	0.00
ATOM	1853	O1	LIG	117	-4.712	-10.465	-13.406	1.00	0.00
ATOM	1854	O2	LIG	117	-6.222	-8.534	-13.759	1.00	0.00
ATOM	1855	O3	LIG	117	-5.410	-9.950	-15.741	1.00	0.00
ATOM	1856	O4	LIG	117	-7.222	-10.879	-14.123	1.00	0.00
ATOM	1857	C1	LIG	117	-4.153	-11.794	-13.521	1.00	0.00
ATOM	1858	H1	LIG	117	-3.366	-11.851	-12.773	1.00	0.00
ATOM	1859	H2	LIG	117	-3.733	-11.936	-14.517	1.00	0.00
ATOM	1860	H3	LIG	117	-4.918	-12.544	-13.317	1.00	0.00
ATOM	1861	C2	LIG	117	-5.166	-7.545	-13.770	1.00	0.00
ATOM	1862	H4	LIG	117	-4.743	-7.454	-14.771	1.00	0.00
ATOM	1863	H5	LIG	117	-4.391	-7.822	-13.054	1.00	0.00
ATOM	1864	H6	LIG	117	-5.636	-6.610	-13.475	1.00	0.00
ATOM	1865	C3	LIG	117	-6.206	-10.164	-16.836	1.00	0.00

ATOM	1866	H7	LIG	117	-7.164	-10.637	-16.663	1.00	0.00
ATOM	1867	C4	LIG	117	-5.792	-9.825	-18.055	1.00	0.00
TER									
ATOM	1868	Cl1	LIG	118	14.088	23.776	-0.253	1.00	0.00
ATOM	1869	Cl2	LIG	118	16.618	23.709	1.258	1.00	0.00
ATOM	1870	P1	LIG	118	16.041	28.246	1.805	1.00	0.00
ATOM	1871	O1	LIG	118	16.649	28.469	3.263	1.00	0.00
ATOM	1872	O2	LIG	118	17.242	28.683	0.868	1.00	0.00
ATOM	1873	O3	LIG	118	16.022	26.600	1.740	1.00	0.00
ATOM	1874	O4	LIG	118	14.744	28.850	1.470	1.00	0.00
ATOM	1875	C1	LIG	118	15.877	28.190	4.453	1.00	0.00
ATOM	1876	H1	LIG	118	16.472	28.556	5.287	1.00	0.00
ATOM	1877	H2	LIG	118	15.718	27.115	4.551	1.00	0.00
ATOM	1878	H3	LIG	118	14.922	28.716	4.416	1.00	0.00
ATOM	1879	C2	LIG	118	18.599	28.206	1.029	1.00	0.00
ATOM	1880	H4	LIG	118	18.624	27.116	0.983	1.00	0.00
ATOM	1881	H5	LIG	118	19.005	28.556	1.978	1.00	0.00
ATOM	1882	H6	LIG	118	19.159	28.629	0.198	1.00	0.00
ATOM	1883	C3	LIG	118	15.110	25.932	0.964	1.00	0.00
ATOM	1884	H7	LIG	118	14.260	26.498	0.606	1.00	0.00
ATOM	1885	C4	LIG	118	15.266	24.637	0.694	1.00	0.00
TER									

ATOM	1886	Cl1	LIG	119	21.170	-11.366	21.605	1.00	0.00
ATOM	1887	Cl2	LIG	119	19.775	-8.861	20.923	1.00	0.00
ATOM	1888	P1	LIG	119	23.970	-7.075	20.272	1.00	0.00
ATOM	1889	O1	LIG	119	23.701	-6.066	19.066	1.00	0.00
ATOM	1890	O2	LIG	119	23.940	-6.112	21.530	1.00	0.00
ATOM	1891	O3	LIG	119	22.533	-7.879	20.312	1.00	0.00
ATOM	1892	O4	LIG	119	25.131	-7.973	20.208	1.00	0.00
ATOM	1893	C1	LIG	119	23.644	-6.525	17.696	1.00	0.00
ATOM	1894	H1	LIG	119	23.590	-5.628	17.083	1.00	0.00
ATOM	1895	H2	LIG	119	22.753	-7.136	17.545	1.00	0.00
ATOM	1896	H3	LIG	119	24.543	-7.092	17.450	1.00	0.00
ATOM	1897	C2	LIG	119	22.888	-5.150	21.779	1.00	0.00
ATOM	1898	H4	LIG	119	21.920	-5.651	21.820	1.00	0.00
ATOM	1899	H5	LIG	119	22.889	-4.388	20.999	1.00	0.00
ATOM	1900	H6	LIG	119	23.120	-4.705	22.744	1.00	0.00
ATOM	1901	C3	LIG	119	22.454	-9.168	20.772	1.00	0.00
ATOM	1902	H7	LIG	119	23.384	-9.715	20.864	1.00	0.00
ATOM	1903	C4	LIG	119	21.277	-9.716	21.064	1.00	0.00
TER									
ATOM	1904	Cl1	LIG	120	-24.886	18.693	-23.580	1.00	0.00
ATOM	1905	Cl2	LIG	120	-23.261	16.772	-22.045	1.00	0.00
ATOM	1906	P1	LIG	120	-20.400	20.298	-21.271	1.00	0.00



ATOM	1907	O1	LIG	120	-19.887	19.972	-19.796	1.00	0.00
ATOM	1908	O2	LIG	120	-19.213	19.753	-22.169	1.00	0.00
ATOM	1909	O3	LIG	120	-21.602	19.181	-21.420	1.00	0.00
ATOM	1910	O4	LIG	120	-20.840	21.663	-21.590	1.00	0.00
ATOM	1911	C1	LIG	120	-20.675	20.308	-18.631	1.00	0.00
ATOM	1912	H1	LIG	120	-20.038	20.106	-17.772	1.00	0.00
ATOM	1913	H2	LIG	120	-21.567	19.680	-18.591	1.00	0.00
ATOM	1914	H3	LIG	120	-20.950	21.363	-18.653	1.00	0.00
ATOM	1915	C2	LIG	120	-18.632	18.437	-22.017	1.00	0.00
ATOM	1916	H4	LIG	120	-19.401	17.670	-22.118	1.00	0.00
ATOM	1917	H5	LIG	120	-18.142	18.358	-21.046	1.00	0.00
ATOM	1918	H6	LIG	120	-17.902	18.344	-22.817	1.00	0.00
ATOM	1919	C3	LIG	120	-22.677	19.403	-22.241	1.00	0.00
ATOM	1920	H7	LIG	120	-22.837	20.419	-22.580	1.00	0.00
ATOM	1921	C4	LIG	120	-23.495	18.406	-22.576	1.00	0.00
TER									
ATOM	1922	CI1	LIG	121	-5.603	2.492	-20.115	1.00	0.00
ATOM	1923	CI2	LIG	121	-6.333	4.451	-22.193	1.00	0.00
ATOM	1924	P1	LIG	121	-3.933	7.500	-19.712	1.00	0.00
ATOM	1925	O1	LIG	121	-3.309	8.420	-20.856	1.00	0.00
ATOM	1926	O2	LIG	121	-5.182	8.352	-19.237	1.00	0.00
ATOM	1927	O3	LIG	121	-4.564	6.281	-20.622	1.00	0.00

ATOM	1928	O4	LIG	121	-3.065	7.019	-18.628	1.00	0.00
ATOM	1929	C1	LIG	121	-2.124	8.022	-21.582	1.00	0.00
ATOM	1930	H1	LIG	121	-1.845	8.879	-22.191	1.00	0.00
ATOM	1931	H2	LIG	121	-2.348	7.167	-22.222	1.00	0.00
ATOM	1932	H3	LIG	121	-1.319	7.779	-20.887	1.00	0.00
ATOM	1933	C2	LIG	121	-6.156	8.919	-20.144	1.00	0.00
ATOM	1934	H4	LIG	121	-6.602	8.136	-20.759	1.00	0.00
ATOM	1935	H5	LIG	121	-5.683	9.674	-20.773	1.00	0.00
ATOM	1936	H6	LIG	121	-6.914	9.376	-19.512	1.00	0.00
ATOM	1937	C3	LIG	121	-4.705	5.016	-20.112	1.00	0.00
ATOM	1938	H7	LIG	121	-4.163	4.788	-19.203	1.00	0.00
ATOM	1939	C4	LIG	121	-5.458	4.111	-20.735	1.00	0.00

TER

ATOM	1940	Cl1	LIG	122	-16.032	-26.748	-21.053	1.00	0.00
ATOM	1941	Cl2	LIG	122	-16.149	-28.538	-18.714	1.00	0.00
ATOM	1942	P1	LIG	122	-14.699	-24.914	-16.268	1.00	0.00
ATOM	1943	O1	LIG	122	-15.463	-25.139	-14.886	1.00	0.00
ATOM	1944	O2	LIG	122	-13.256	-25.489	-15.954	1.00	0.00
ATOM	1945	O3	LIG	122	-15.427	-26.062	-17.199	1.00	0.00
ATOM	1946	O4	LIG	122	-14.713	-23.580	-16.884	1.00	0.00
ATOM	1947	C1	LIG	122	-16.844	-24.749	-14.714	1.00	0.00
ATOM	1948	H1	LIG	122	-17.064	-24.885	-13.657	1.00	0.00

ATOM	1949	H2	LIG	122	-17.490	-25.391	-15.316	1.00	0.00
ATOM	1950	H3	LIG	122	-16.979	-23.703	-14.992	1.00	0.00
ATOM	1951	C2	LIG	122	-13.023	-26.781	-15.347	1.00	0.00
ATOM	1952	H4	LIG	122	-13.485	-27.568	-15.943	1.00	0.00
ATOM	1953	H5	LIG	122	-13.419	-26.791	-14.331	1.00	0.00
ATOM	1954	H6	LIG	122	-11.943	-26.908	-15.332	1.00	0.00
ATOM	1955	C3	LIG	122	-15.529	-25.913	-18.558	1.00	0.00
ATOM	1956	H7	LIG	122	-15.352	-24.923	-18.959	1.00	0.00
ATOM	1957	C4	LIG	122	-15.858	-26.944	-19.333	1.00	0.00
TER									
ATOM	1958	Cl1	LIG	123	-6.139	19.241	23.395	1.00	0.00
ATOM	1959	Cl2	LIG	123	-7.658	19.156	20.871	1.00	0.00
ATOM	1960	P1	LIG	123	-3.626	19.948	18.789	1.00	0.00
ATOM	1961	O1	LIG	123	-3.793	19.109	17.443	1.00	0.00
ATOM	1962	O2	LIG	123	-3.968	21.421	18.313	1.00	0.00
ATOM	1963	O3	LIG	123	-4.956	19.444	19.621	1.00	0.00
ATOM	1964	O4	LIG	123	-2.382	19.821	19.561	1.00	0.00
ATOM	1965	C1	LIG	123	-3.571	17.680	17.412	1.00	0.00
ATOM	1966	H1	LIG	123	-3.617	17.395	16.363	1.00	0.00
ATOM	1967	H2	LIG	123	-4.355	17.169	17.973	1.00	0.00
ATOM	1968	H3	LIG	123	-2.589	17.442	17.822	1.00	0.00
ATOM	1969	C2	LIG	123	-5.143	21.761	17.540	1.00	0.00

ATOM	1970	H4	LIG	123	-6.046	21.447	18.067	1.00	0.00
ATOM	1971	H5	LIG	123	-5.091	21.287	16.559	1.00	0.00
ATOM	1972	H6	LIG	123	-5.125	22.843	17.439	1.00	0.00
ATOM	1973	C3	LIG	123	-4.973	19.435	20.991	1.00	0.00
ATOM	1974	H7	LIG	123	-4.019	19.522	21.496	1.00	0.00
ATOM	1975	C4	LIG	123	-6.118	19.299	21.657	1.00	0.00
TER									
ATOM	1976	Cl1	LIG	124	-17.741	-3.026	-4.047	1.00	0.00
ATOM	1977	Cl2	LIG	124	-18.163	-4.636	-1.615	1.00	0.00
ATOM	1978	P1	LIG	124	-18.473	-0.614	0.609	1.00	0.00
ATOM	1979	O1	LIG	124	-19.559	-0.953	1.728	1.00	0.00
ATOM	1980	O2	LIG	124	-17.111	-0.757	1.407	1.00	0.00
ATOM	1981	O3	LIG	124	-18.572	-1.970	-0.321	1.00	0.00
ATOM	1982	O4	LIG	124	-18.609	0.627	-0.167	1.00	0.00
ATOM	1983	C1	LIG	124	-20.975	-0.942	1.433	1.00	0.00
ATOM	1984	H1	LIG	124	-21.478	-1.068	2.389	1.00	0.00
ATOM	1985	H2	LIG	124	-21.223	-1.769	0.767	1.00	0.00
ATOM	1986	H3	LIG	124	-21.259	0.010	0.983	1.00	0.00
ATOM	1987	C2	LIG	124	-16.781	-1.898	2.232	1.00	0.00
ATOM	1988	H4	LIG	124	-16.829	-2.816	1.644	1.00	0.00
ATOM	1989	H5	LIG	124	-17.465	-1.954	3.079	1.00	0.00
ATOM	1990	H6	LIG	124	-15.765	-1.727	2.577	1.00	0.00

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ATOM 1991 C3 LIG 124 -18.270 -1.937 -1.658 1.00 0.00
ATOM 1992 H7 LIG 124 -18.216 -0.962 -2.126 1.00 0.00
ATOM 1993 C4 LIG 124 -18.080 -3.064 -2.341 1.00 0.00
TER
END

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**Table F:** The number of atoms present in the system of BE-Nap

ATOM	1	N	GLU	1	7.051	19.438	-6.219	1.00	0.00
ATOM	2	H1	GLU	1	7.361	20.053	-6.957	1.00	0.00
ATOM	3	H2	GLU	1	7.458	18.525	-6.365	1.00	0.00
ATOM	4	H3	GLU	1	7.171	19.908	-5.333	1.00	0.00
ATOM	5	CA	GLU	1	5.581	19.242	-6.365	1.00	0.00
ATOM	6	HA	GLU	1	5.352	18.185	-6.505	1.00	0.00
ATOM	7	CB	GLU	1	4.874	19.732	-5.098	1.00	0.00
ATOM	8	HB2	GLU	1	5.295	19.226	-4.229	1.00	0.00
ATOM	9	HB3	GLU	1	5.017	20.807	-4.996	1.00	0.00
ATOM	10	CG	GLU	1	3.376	19.423	-5.193	1.00	0.00
ATOM	11	HG2	GLU	1	2.979	19.867	-6.105	1.00	0.00
ATOM	12	HG3	GLU	1	3.232	18.343	-5.222	1.00	0.00
ATOM	13	CD	GLU	1	2.644	20.001	-3.986	1.00	0.00
ATOM	14	OE1	GLU	1	2.773	19.435	-2.912	1.00	0.00
ATOM	15	OE2	GLU	1	1.962	20.999	-4.153	1.00	0.00

ATOM	16	C	GLU	1	5.085	20.023	-7.580	1.00	0.00
ATOM	17	O	GLU	1	4.940	21.245	-7.527	1.00	0.00
ATOM	18	N	ALA	2	4.825	19.306	-8.671	1.00	0.00
ATOM	19	H	ALA	2	4.977	18.307	-8.673	1.00	0.00
ATOM	20	CA	ALA	2	4.341	19.936	-9.896	1.00	0.00
ATOM	21	HA	ALA	2	4.997	20.759	-10.179	1.00	0.00
ATOM	22	CB	ALA	2	4.317	18.916	-11.036	1.00	0.00
ATOM	23	HB1	ALA	2	3.657	18.090	-10.771	1.00	0.00
ATOM	24	HB2	ALA	2	3.953	19.394	-11.945	1.00	0.00
ATOM	25	HB3	ALA	2	5.325	18.535	-11.205	1.00	0.00
ATOM	26	C	ALA	2	2.940	20.504	-9.691	1.00	0.00
ATOM	27	O	ALA	2	2.147	19.961	-8.923	1.00	0.00
ATOM	28	N	GLU	3	2.645	21.600	-10.383	1.00	0.00
ATOM	29	H	GLU	3	3.338	22.027	-10.980	1.00	0.00
ATOM	30	CA	GLU	3	1.336	22.238	-10.275	1.00	0.00
ATOM	31	HA	GLU	3	1.125	22.481	-9.233	1.00	0.00
ATOM	32	CB	GLU	3	1.311	23.536	-11.097	1.00	0.00
ATOM	33	HB2	GLU	3	0.416	24.102	-10.839	1.00	0.00
ATOM	34	HB3	GLU	3	2.196	24.126	-10.856	1.00	0.00
ATOM	35	CG	GLU	3	1.301	23.219	-12.600	1.00	0.00
ATOM	36	HG2	GLU	3	0.420	22.621	-12.832	1.00	0.00
ATOM	37	HG3	GLU	3	1.262	24.154	-13.158	1.00	0.00

ATOM	38	CD	GLU	3	2.559	22.444	-12.992	1.00	0.00
ATOM	39	OE1	GLU	3	3.644	22.949	-12.754	1.00	0.00
ATOM	40	OE2	GLU	3	2.418	21.354	-13.524	1.00	0.00
ATOM	41	C	GLU	3	0.233	21.297	-10.758	1.00	0.00
ATOM	42	O	GLU	3	-0.925	21.428	-10.359	1.00	0.00
ATOM	43	N	ALA	4	0.603	20.353	-11.621	1.00	0.00
ATOM	44	H	ALA	4	1.559	20.305	-11.944	1.00	0.00
ATOM	45	CA	ALA	4	-0.359	19.394	-12.159	1.00	0.00
ATOM	46	HA	ALA	4	-1.256	19.923	-12.479	1.00	0.00
ATOM	47	CB	ALA	4	0.238	18.669	-13.367	1.00	0.00
ATOM	48	HB1	ALA	4	1.133	18.127	-13.060	1.00	0.00
ATOM	49	HB2	ALA	4	-0.493	17.966	-13.767	1.00	0.00
ATOM	50	HB3	ALA	4	0.500	19.396	-14.135	1.00	0.00
ATOM	51	C	ALA	4	-0.773	18.384	-11.100	1.00	0.00
ATOM	52	O	ALA	4	-1.625	17.528	-11.343	1.00	0.00
ATOM	53	N	GLN	5	-0.174	18.499	-9.924	1.00	0.00
ATOM	54	H	GLN	5	0.520	19.218	-9.777	1.00	0.00
ATOM	55	CA	GLN	5	-0.488	17.607	-8.818	1.00	0.00
ATOM	56	HA	GLN	5	-0.121	16.600	-9.021	1.00	0.00
ATOM	57	CB	GLN	5	0.191	18.128	-7.556	1.00	0.00
ATOM	58	HB2	GLN	5	1.267	18.182	-7.723	1.00	0.00
ATOM	59	HB3	GLN	5	-0.191	19.123	-7.327	1.00	0.00

ATOM	60	CG	GLN	5	-0.096	17.188	-6.380	1.00	0.00
ATOM	61	HG2	GLN	5	-1.168	17.012	-6.295	1.00	0.00
ATOM	62	HG3	GLN	5	0.417	16.238	-6.533	1.00	0.00
ATOM	63	CD	GLN	5	0.401	17.806	-5.077	1.00	0.00
ATOM	64	OE1	GLN	5	0.013	18.922	-4.730	1.00	0.00
ATOM	65	NE2	GLN	5	1.239	17.143	-4.329	1.00	0.00
ATOM	66	HE21	GLN	5	1.571	17.548	-3.465	1.00	0.00
ATOM	67	HE22	GLN	5	1.553	16.227	-4.617	1.00	0.00
ATOM	68	C	GLN	5	-1.997	17.548	-8.593	1.00	0.00
ATOM	69	O	GLN	5	-2.547	16.495	-8.271	1.00	0.00
ATOM	70	N	GLU	6	-2.656	18.693	-8.760	1.00	0.00
ATOM	71	H	GLU	6	-2.154	19.537	-8.995	1.00	0.00
ATOM	72	CA	GLU	6	-4.100	18.776	-8.570	1.00	0.00
ATOM	73	HA	GLU	6	-4.354	18.584	-7.527	1.00	0.00
ATOM	74	CB	GLU	6	-4.590	20.180	-8.944	1.00	0.00
ATOM	75	HB2	GLU	6	-5.656	20.256	-8.733	1.00	0.00
ATOM	76	HB3	GLU	6	-4.049	20.919	-8.352	1.00	0.00
ATOM	77	CG	GLU	6	-4.344	20.440	-10.435	1.00	0.00
ATOM	78	HG2	GLU	6	-3.310	20.192	-10.676	1.00	0.00
ATOM	79	HG3	GLU	6	-5.014	19.814	-11.024	1.00	0.00
ATOM	80	CD	GLU	6	-4.604	21.909	-10.758	1.00	0.00
ATOM	81	OE1	GLU	6	-5.763	22.287	-10.814	1.00	0.00



ATOM	82	OE2	GLU	6	-3.640	22.633	-10.945	1.00	0.00
ATOM	83	C	GLU	6	-4.828	17.726	-9.409	1.00	0.00
ATOM	84	O	GLU	6	-5.744	17.064	-8.922	1.00	0.00
ATOM	85	N	GLU	7	-4.406	17.565	-10.664	1.00	0.00
ATOM	86	H	GLU	7	-3.658	18.136	-11.032	1.00	0.00
ATOM	87	CA	GLU	7	-5.018	16.577	-11.544	1.00	0.00
ATOM	88	HA	GLU	7	-6.068	16.822	-11.702	1.00	0.00
ATOM	89	CB	GLU	7	-4.308	16.561	-12.904	1.00	0.00
ATOM	90	HB2	GLU	7	-4.505	17.497	-13.425	1.00	0.00
ATOM	91	HB3	GLU	7	-3.234	16.450	-12.750	1.00	0.00
ATOM	92	CG	GLU	7	-4.827	15.387	-13.747	1.00	0.00
ATOM	93	HG2	GLU	7	-5.843	15.147	-13.432	1.00	0.00
ATOM	94	HG3	GLU	7	-4.830	15.672	-14.799	1.00	0.00
ATOM	95	CD	GLU	7	-3.933	14.164	-13.554	1.00	0.00
ATOM	96	OE1	GLU	7	-2.763	14.249	-13.890	1.00	0.00
ATOM	97	OE2	GLU	7	-4.432	13.158	-13.077	1.00	0.00
ATOM	98	C	GLU	7	-4.928	15.202	-10.908	1.00	0.00
ATOM	99	O	GLU	7	-5.868	14.409	-10.969	1.00	0.00
ATOM	100	N	CYX	8	-3.775	14.929	-10.306	1.00	0.00
ATOM	101	H	CYX	8	-3.025	15.606	-10.298	1.00	0.00
ATOM	102	CA	CYX	8	-3.549	13.648	-9.670	1.00	0.00
ATOM	103	HA	CYX	8	-3.806	12.840	-10.355	1.00	0.00

ATOM	104	CB	CYX	8	-2.074	13.509	-9.281	1.00	0.00
ATOM	105	HB2	CYX	8	-1.823	14.259	-8.531	1.00	0.00
ATOM	106	HB3	CYX	8	-1.897	12.514	-8.872	1.00	0.00
ATOM	107	SG	CYX	8	-1.037	13.748	-10.744	1.00	0.00
ATOM	108	C	CYX	8	-4.419	13.499	-8.429	1.00	0.00
ATOM	109	O	CYX	8	-5.206	12.559	-8.327	1.00	0.00
ATOM	110	N	ARG	9	-4.270	14.433	-7.493	1.00	0.00
ATOM	111	H	ARG	9	-3.595	15.174	-7.617	1.00	0.00
ATOM	112	CA	ARG	9	-5.043	14.400	-6.255	1.00	0.00
ATOM	113	HA	ARG	9	-4.777	13.519	-5.670	1.00	0.00
ATOM	114	CB	ARG	9	-4.742	15.649	-5.423	1.00	0.00
ATOM	115	HB2	ARG	9	-3.666	15.729	-5.267	1.00	0.00
ATOM	116	HB3	ARG	9	-5.098	16.531	-5.953	1.00	0.00
ATOM	117	CG	ARG	9	-5.448	15.549	-4.066	1.00	0.00
ATOM	118	HG2	ARG	9	-6.527	15.522	-4.219	1.00	0.00
ATOM	119	HG3	ARG	9	-5.131	14.638	-3.558	1.00	0.00
ATOM	120	CD	ARG	9	-5.085	16.763	-3.209	1.00	0.00
ATOM	121	HD2	ARG	9	-5.465	16.629	-2.196	1.00	0.00
ATOM	122	HD3	ARG	9	-4.002	16.884	-3.177	1.00	0.00
ATOM	123	NE	ARG	9	-5.675	17.974	-3.774	1.00	0.00
ATOM	124	HE	ARG	9	-6.349	17.907	-4.523	1.00	0.00
ATOM	125	CZ	ARG	9	-5.342	19.183	-3.324	1.00	0.00

ATOM	126	NH1	ARG	9	-4.476	19.308	-2.355	1.00	0.00
ATOM	127	HH11	ARG	9	-4.058	18.484	-1.946	1.00	0.00
ATOM	128	HH12	ARG	9	-4.228	20.227	-2.019	1.00	0.00
ATOM	129	NH2	ARG	9	-5.885	20.245	-3.851	1.00	0.00
ATOM	130	HH21	ARG	9	-6.556	20.146	-4.599	1.00	0.00
ATOM	131	HH22	ARG	9	-5.631	21.160	-3.508	1.00	0.00
ATOM	132	C	ARG	9	-6.538	14.323	-6.547	1.00	0.00
ATOM	133	O	ARG	9	-7.261	13.555	-5.915	1.00	0.00
ATOM	134	N	GLU	10	-6.996	15.121	-7.508	1.00	0.00
ATOM	135	H	GLU	10	-6.373	15.751	-7.993	1.00	0.00
ATOM	136	CA	GLU	10	-8.409	15.127	-7.873	1.00	0.00
ATOM	137	HA	GLU	10	-9.018	15.400	-7.011	1.00	0.00
ATOM	138	CB	GLU	10	-8.652	16.149	-8.988	1.00	0.00
ATOM	139	HB2	GLU	10	-8.392	17.144	-8.628	1.00	0.00
ATOM	140	HB3	GLU	10	-8.029	15.900	-9.847	1.00	0.00
ATOM	141	CG	GLU	10	-10.129	16.124	-9.402	1.00	0.00
ATOM	142	HG2	GLU	10	-10.736	15.830	-8.546	1.00	0.00
ATOM	143	HG3	GLU	10	-10.423	17.120	-9.731	1.00	0.00
ATOM	144	CD	GLU	10	-10.340	15.128	-10.542	1.00	0.00
ATOM	145	OE1	GLU	10	-9.690	15.276	-11.564	1.00	0.00
ATOM	146	OE2	GLU	10	-11.149	14.229	-10.375	1.00	0.00
ATOM	147	C	GLU	10	-8.846	13.743	-8.343	1.00	0.00

ATOM	148	O	GLU	10	-9.871	13.219	-7.903	1.00	0.00
ATOM	149	N	GLN	11	-8.059	13.164	-9.246	1.00	0.00
ATOM	150	H	GLN	11	-7.248	13.653	-9.596	1.00	0.00
ATOM	151	CA	GLN	11	-8.359	11.844	-9.790	1.00	0.00
ATOM	152	HA	GLN	11	-9.337	11.849	-10.271	1.00	0.00
ATOM	153	CB	GLN	11	-7.302	11.460	-10.832	1.00	0.00
ATOM	154	HB2	GLN	11	-7.160	12.287	-11.527	1.00	0.00
ATOM	155	HB3	GLN	11	-6.359	11.242	-10.329	1.00	0.00
ATOM	156	CG	GLN	11	-7.768	10.220	-11.603	1.00	0.00
ATOM	157	HG2	GLN	11	-7.844	9.369	-10.925	1.00	0.00
ATOM	158	HG3	GLN	11	-8.740	10.410	-12.057	1.00	0.00
ATOM	159	CD	GLN	11	-6.771	9.875	-12.709	1.00	0.00
ATOM	160	OE1	GLN	11	-5.837	10.635	-12.971	1.00	0.00
ATOM	161	NE2	GLN	11	-6.916	8.764	-13.378	1.00	0.00
ATOM	162	HE21	GLN	11	-6.261	8.529	-14.110	1.00	0.00
ATOM	163	HE22	GLN	11	-7.682	8.143	-13.160	1.00	0.00
ATOM	164	C	GLN	11	-8.418	10.784	-8.689	1.00	0.00
ATOM	165	O	GLN	11	-9.193	9.832	-8.781	1.00	0.00
ATOM	166	N	MET	12	-7.587	10.942	-7.657	1.00	0.00
ATOM	167	H	MET	12	-6.943	11.720	-7.631	1.00	0.00
ATOM	168	CA	MET	12	-7.551	9.974	-6.558	1.00	0.00
ATOM	169	HA	MET	12	-7.169	9.018	-6.918	1.00	0.00

ATOM	170	CB	MET	12	-6.637	10.474	-5.437	1.00	0.00
ATOM	171	HB2	MET	12	-6.924	11.487	-5.156	1.00	0.00
ATOM	172	HB3	MET	12	-6.728	9.818	-4.571	1.00	0.00
ATOM	173	CG	MET	12	-5.189	10.472	-5.927	1.00	0.00
ATOM	174	HG2	MET	12	-4.904	9.462	-6.223	1.00	0.00
ATOM	175	HG3	MET	12	-5.090	11.142	-6.781	1.00	0.00
ATOM	176	SD	MET	12	-4.096	11.033	-4.602	1.00	0.00
ATOM	177	CE	MET	12	-2.648	11.358	-5.636	1.00	0.00
ATOM	178	HE1	MET	12	-2.897	12.110	-6.384	1.00	0.00
ATOM	179	HE2	MET	12	-1.830	11.722	-5.013	1.00	0.00
ATOM	180	HE3	MET	12	-2.342	10.437	-6.134	1.00	0.00
ATOM	181	C	MET	12	-8.948	9.711	-6.001	1.00	0.00
ATOM	182	O	MET	12	-9.289	8.567	-5.702	1.00	0.00
ATOM	183	N	GLN	13	-9.758	10.762	-5.870	1.00	0.00
ATOM	184	H	GLN	13	-9.450	11.694	-6.106	1.00	0.00
ATOM	185	CA	GLN	13	-11.115	10.589	-5.357	1.00	0.00
ATOM	186	HA	GLN	13	-11.075	10.183	-4.346	1.00	0.00
ATOM	187	CB	GLN	13	-11.857	11.929	-5.318	1.00	0.00
ATOM	188	HB2	GLN	13	-11.689	12.459	-6.255	1.00	0.00
ATOM	189	HB3	GLN	13	-12.924	11.745	-5.191	1.00	0.00
ATOM	190	CG	GLN	13	-11.344	12.779	-4.151	1.00	0.00
ATOM	191	HG2	GLN	13	-11.974	13.660	-4.035	1.00	0.00

ATOM	192	HG3	GLN	13	-11.362	12.196	-3.230	1.00	0.00
ATOM	193	CD	GLN	13	-9.912	13.235	-4.411	1.00	0.00
ATOM	194	OE1	GLN	13	-8.962	12.561	-4.013	1.00	0.00
ATOM	195	NE2	GLN	13	-9.700	14.349	-5.056	1.00	0.00
ATOM	196	HE21	GLN	13	-8.753	14.655	-5.231	1.00	0.00
ATOM	197	HE22	GLN	13	-10.483	14.899	-5.377	1.00	0.00
ATOM	198	C	GLN	13	-11.875	9.614	-6.243	1.00	0.00
ATOM	199	O	GLN	13	-12.545	8.708	-5.752	1.00	0.00
ATOM	200	N	ARG	14	-11.729	9.789	-7.554	1.00	0.00
ATOM	201	H	ARG	14	-11.172	10.557	-7.901	1.00	0.00
ATOM	202	CA	ARG	14	-12.360	8.909	-8.515	1.00	0.00
ATOM	203	HA	ARG	14	-13.443	8.945	-8.396	1.00	0.00
ATOM	204	CB	ARG	14	-12.009	9.342	-9.943	1.00	0.00
ATOM	205	HB2	ARG	14	-12.182	10.413	-10.046	1.00	0.00
ATOM	206	HB3	ARG	14	-10.958	9.124	-10.136	1.00	0.00
ATOM	207	CG	ARG	14	-12.881	8.584	-10.950	1.00	0.00
ATOM	208	HG2	ARG	14	-12.408	8.612	-11.932	1.00	0.00
ATOM	209	HG3	ARG	14	-12.988	7.548	-10.628	1.00	0.00
ATOM	210	CD	ARG	14	-14.262	9.238	-11.030	1.00	0.00
ATOM	211	HD2	ARG	14	-14.918	8.642	-11.665	1.00	0.00
ATOM	212	HD3	ARG	14	-14.694	9.314	-10.032	1.00	0.00
ATOM	213	NE	ARG	14	-14.153	10.580	-11.597	1.00	0.00

ATOM	214	HE	ARG	14	-13.358	10.823	-12.170	1.00	0.00
ATOM	215	CZ	ARG	14	-15.085	11.506	-11.377	1.00	0.00
ATOM	216	NH1	ARG	14	-16.130	11.228	-10.645	1.00	0.00
ATOM	217	HH11	ARG	14	-16.231	10.306	-10.244	1.00	0.00
ATOM	218	HH12	ARG	14	-16.832	11.935	-10.483	1.00	0.00
ATOM	219	NH2	ARG	14	-14.953	12.697	-11.895	1.00	0.00
ATOM	220	HH21	ARG	14	-14.144	12.911	-12.460	1.00	0.00
ATOM	221	HH22	ARG	14	-15.660	13.398	-11.727	1.00	0.00
ATOM	222	C	ARG	14	-11.865	7.503	-8.259	1.00	0.00
ATOM	223	O	ARG	14	-12.635	6.542	-8.266	1.00	0.00
ATOM	224	N	GLN	15	-10.559	7.405	-8.009	1.00	0.00
ATOM	225	H	GLN	15	-9.965	8.221	-8.034	1.00	0.00
ATOM	226	CA	GLN	15	-9.954	6.129	-7.722	1.00	0.00
ATOM	227	HA	GLN	15	-10.337	5.372	-8.406	1.00	0.00
ATOM	228	CB	GLN	15	-8.431	6.216	-7.891	1.00	0.00
ATOM	229	HB2	GLN	15	-8.121	7.260	-7.844	1.00	0.00
ATOM	230	HB3	GLN	15	-7.946	5.657	-7.090	1.00	0.00
ATOM	231	CG	GLN	15	-8.026	5.624	-9.245	1.00	0.00
ATOM	232	HG2	GLN	15	-6.991	5.283	-9.204	1.00	0.00
ATOM	233	HG3	GLN	15	-8.674	4.785	-9.499	1.00	0.00
ATOM	234	CD	GLN	15	-8.148	6.682	-10.337	1.00	0.00
ATOM	235	OE1	GLN	15	-7.141	7.208	-10.808	1.00	0.00

ATOM	236	NE2	GLN	15	-9.331	7.031	-10.766	1.00	0.00
ATOM	237	HE21	GLN	15	-9.416	7.731	-11.489	1.00	0.00
ATOM	238	HE22	GLN	15	-10.155	6.599	-10.373	1.00	0.00
ATOM	239	C	GLN	15	-10.306	5.723	-6.300	1.00	0.00
ATOM	240	O	GLN	15	-9.484	5.807	-5.386	1.00	0.00
ATOM	241	N	GLN	16	-11.537	5.277	-6.135	1.00	0.00
ATOM	242	H	GLN	16	-12.175	5.255	-6.917	1.00	0.00
ATOM	243	CA	GLN	16	-12.026	4.841	-4.833	1.00	0.00
ATOM	244	HA	GLN	16	-11.615	5.473	-4.045	1.00	0.00
ATOM	245	CB	GLN	16	-13.551	4.943	-4.795	1.00	0.00
ATOM	246	HB2	GLN	16	-13.983	4.323	-5.581	1.00	0.00
ATOM	247	HB3	GLN	16	-13.920	4.608	-3.825	1.00	0.00
ATOM	248	CG	GLN	16	-13.953	6.402	-5.017	1.00	0.00
ATOM	249	HG2	GLN	16	-13.523	7.020	-4.228	1.00	0.00
ATOM	250	HG3	GLN	16	-13.584	6.740	-5.985	1.00	0.00
ATOM	251	CD	GLN	16	-15.470	6.563	-4.990	1.00	0.00
ATOM	252	OE1	GLN	16	-16.206	5.575	-4.974	1.00	0.00
ATOM	253	NE2	GLN	16	-15.980	7.764	-4.987	1.00	0.00
ATOM	254	HE21	GLN	16	-16.982	7.883	-4.969	1.00	0.00
ATOM	255	HE22	GLN	16	-15.369	8.568	-5.002	1.00	0.00
ATOM	256	C	GLN	16	-11.576	3.409	-4.572	1.00	0.00
ATOM	257	O	GLN	16	-12.346	2.575	-4.087	1.00	0.00



ATOM	258	N	MET	17	-10.321	3.134	-4.920	1.00	0.00
ATOM	259	H	MET	17	-9.746	3.847	-5.346	1.00	0.00
ATOM	260	CA	MET	17	-9.755	1.801	-4.749	1.00	0.00
ATOM	261	HA	MET	17	-10.393	1.060	-5.231	1.00	0.00
ATOM	262	CB	MET	17	-8.360	1.735	-5.385	1.00	0.00
ATOM	263	HB2	MET	17	-8.204	0.736	-5.793	1.00	0.00
ATOM	264	HB3	MET	17	-8.303	2.468	-6.189	1.00	0.00
ATOM	265	CG	MET	17	-7.279	2.034	-4.345	1.00	0.00
ATOM	266	HG2	MET	17	-7.609	2.835	-3.684	1.00	0.00
ATOM	267	HG3	MET	17	-7.072	1.140	-3.756	1.00	0.00
ATOM	268	SD	MET	17	-5.770	2.548	-5.193	1.00	0.00
ATOM	269	CE	MET	17	-6.400	4.123	-5.821	1.00	0.00
ATOM	270	HE1	MET	17	-6.703	4.753	-4.985	1.00	0.00
ATOM	271	HE2	MET	17	-5.618	4.626	-6.390	1.00	0.00
ATOM	272	HE3	MET	17	-7.258	3.940	-6.467	1.00	0.00
ATOM	273	C	MET	17	-9.673	1.410	-3.282	1.00	0.00
ATOM	274	O	MET	17	-9.672	0.228	-2.954	1.00	0.00
ATOM	275	N	LEU	18	-9.591	2.411	-2.414	1.00	0.00
ATOM	276	H	LEU	18	-9.576	3.365	-2.745	1.00	0.00
ATOM	277	CA	LEU	18	-9.480	2.176	-0.977	1.00	0.00
ATOM	278	HA	LEU	18	-8.582	1.595	-0.764	1.00	0.00
ATOM	279	CB	LEU	18	-9.392	3.498	-0.231	1.00	0.00

ATOM	280	HB2 LEU	18	-10.313	4.059	-0.387	1.00	0.00
ATOM	281	HB3 LEU	18	-9.258	3.309	0.834	1.00	0.00
ATOM	282	CG LEU	18	-8.205	4.310	-0.758	1.00	0.00
ATOM	283	HG LEU	18	-7.349	3.650	-0.901	1.00	0.00
ATOM	284	CD1 LEU	18	-8.578	4.959	-2.095	1.00	0.00
ATOM	285	HD11 LEU	18	-9.433	5.619	-1.952	1.00	0.00
ATOM	286	HD12 LEU	18	-7.732	5.536	-2.468	1.00	0.00
ATOM	287	HD13 LEU	18	-8.834	4.183	-2.817	1.00	0.00
ATOM	288	CD2 LEU	18	-7.838	5.398	0.256	1.00	0.00
ATOM	289	HD21 LEU	18	-7.567	4.934	1.205	1.00	0.00
ATOM	290	HD22 LEU	18	-6.993	5.975	-0.119	1.00	0.00
ATOM	291	HD23 LEU	18	-8.691	6.059	0.406	1.00	0.00
ATOM	292	C LEU	18	-10.666	1.374	-0.459	1.00	0.00
ATOM	293	O LEU	18	-10.559	0.711	0.564	1.00	0.00
ATOM	294	N SER	19	-11.795	1.424	-1.162	1.00	0.00
ATOM	295	H SER	19	-11.873	1.993	-1.993	1.00	0.00
ATOM	296	CA SER	19	-12.962	0.660	-0.734	1.00	0.00
ATOM	297	HA SER	19	-13.201	0.896	0.303	1.00	0.00
ATOM	298	CB SER	19	-14.170	1.008	-1.607	1.00	0.00
ATOM	299	HB2 SER	19	-13.997	0.662	-2.626	1.00	0.00
ATOM	300	HB3 SER	19	-15.062	0.525	-1.207	1.00	0.00
ATOM	301	OG SER	19	-14.355	2.418	-1.610	1.00	0.00

ATOM	302	HG	SER	19	-15.112	2.640	-2.157	1.00	0.00
ATOM	303	C	SER	19	-12.653	-0.832	-0.848	1.00	0.00
ATOM	304	O	SER	19	-12.767	-1.590	0.123	1.00	0.00
ATOM	305	N	HIE	20	-12.220	-1.232	-2.042	1.00	0.00
ATOM	306	H	HIE	20	-12.145	-0.568	-2.799	1.00	0.00
ATOM	307	CA	HIE	20	-11.853	-2.620	-2.300	1.00	0.00
ATOM	308	HA	HIE	20	-12.629	-3.286	-1.923	1.00	0.00
ATOM	309	CB	HIE	20	-11.694	-2.857	-3.809	1.00	0.00
ATOM	310	HB2	HIE	20	-10.657	-2.821	-4.142	1.00	0.00
ATOM	311	HB3	HIE	20	-12.136	-3.809	-4.102	1.00	0.00
ATOM	312	CG	HIE	20	-12.429	-1.787	-4.571	1.00	0.00
ATOM	313	ND1	HIE	20	-11.776	-0.898	-5.409	1.00	0.00
ATOM	314	CE1	HIE	20	-12.701	-0.063	-5.915	1.00	0.00
ATOM	315	HE1	HIE	20	-12.354	0.708	-6.603	1.00	0.00
ATOM	316	NE2	HIE	20	-13.924	-0.346	-5.461	1.00	0.00
ATOM	317	HE2	HIE	20	-14.807	0.102	-5.659	1.00	0.00
ATOM	318	CD2	HIE	20	-13.755	-1.436	-4.613	1.00	0.00
ATOM	319	HD2	HIE	20	-14.616	-1.871	-4.106	1.00	0.00
ATOM	320	C	HIE	20	-10.542	-2.919	-1.592	1.00	0.00
ATOM	321	O	HIE	20	-10.328	-4.014	-1.073	1.00	0.00
ATOM	322	N	CYX	21	-9.675	-1.913	-1.570	1.00	0.00
ATOM	323	H	CYX	21	-9.898	-1.050	-2.044	1.00	0.00

ATOM	324	CA	CYX	21	-8.385	-2.025	-0.918	1.00	0.00
ATOM	325	HA	CYX	21	-7.812	-2.852	-1.337	1.00	0.00
ATOM	326	CB	CYX	21	-7.604	-0.723	-1.144	1.00	0.00
ATOM	327	HB2	CYX	21	-8.293	0.068	-1.437	1.00	0.00
ATOM	328	HB3	CYX	21	-7.096	-0.439	-0.222	1.00	0.00
ATOM	329	SG	CYX	21	-6.408	-0.983	-2.479	1.00	0.00
ATOM	330	C	CYX	21	-8.587	-2.304	0.571	1.00	0.00
ATOM	331	O	CYX	21	-7.974	-3.213	1.133	1.00	0.00
ATOM	332	N	ARG	22	-9.487	-1.547	1.192	1.00	0.00
ATOM	333	H	ARG	22	-9.963	-0.805	0.700	1.00	0.00
ATOM	334	CA	ARG	22	-9.803	-1.756	2.598	1.00	0.00
ATOM	335	HA	ARG	22	-8.911	-1.604	3.206	1.00	0.00
ATOM	336	CB	ARG	22	-10.879	-0.765	3.051	1.00	0.00
ATOM	337	HB2	ARG	22	-10.580	0.244	2.768	1.00	0.00
ATOM	338	HB3	ARG	22	-11.823	-1.014	2.567	1.00	0.00
ATOM	339	CG	ARG	22	-11.051	-0.838	4.571	1.00	0.00
ATOM	340	HG2	ARG	22	-11.270	-1.865	4.864	1.00	0.00
ATOM	341	HG3	ARG	22	-10.132	-0.511	5.058	1.00	0.00
ATOM	342	CD	ARG	22	-12.207	0.072	4.998	1.00	0.00
ATOM	343	HD2	ARG	22	-13.148	-0.316	4.608	1.00	0.00
ATOM	344	HD3	ARG	22	-12.258	0.121	6.086	1.00	0.00
ATOM	345	NE	ARG	22	-12.005	1.423	4.477	1.00	0.00

ATOM	346	HE	ARG	22	-11.383	2.060	4.955	1.00	0.00
ATOM	347	CZ	ARG	22	-12.627	1.847	3.374	1.00	0.00
ATOM	348	NH1	ARG	22	-13.456	1.061	2.739	1.00	0.00
ATOM	349	HH11	ARG	22	-13.627	0.127	3.085	1.00	0.00
ATOM	350	HH12	ARG	22	-13.921	1.390	1.906	1.00	0.00
ATOM	351	NH2	ARG	22	-12.406	3.052	2.925	1.00	0.00
ATOM	352	HH21	ARG	22	-11.764	3.660	3.414	1.00	0.00
ATOM	353	HH22	ARG	22	-12.877	3.371	2.091	1.00	0.00
ATOM	354	C	ARG	22	-10.300	-3.182	2.769	1.00	0.00
ATOM	355	O	ARG	22	-9.870	-3.909	3.672	1.00	0.00
ATOM	356	N	MET	23	-11.191	-3.588	1.858	1.00	0.00
ATOM	357	H	MET	23	-11.527	-2.958	1.145	1.00	0.00
ATOM	358	CA	MET	23	-11.715	-4.943	1.883	1.00	0.00
ATOM	359	HA	MET	23	-12.265	-5.111	2.809	1.00	0.00
ATOM	360	CB	MET	23	-12.665	-5.168	0.700	1.00	0.00
ATOM	361	HB2	MET	23	-13.418	-4.380	0.687	1.00	0.00
ATOM	362	HB3	MET	23	-12.096	-5.142	-0.229	1.00	0.00
ATOM	363	CG	MET	23	-13.353	-6.528	0.839	1.00	0.00
ATOM	364	HG2	MET	23	-12.602	-7.314	0.924	1.00	0.00
ATOM	365	HG3	MET	23	-13.984	-6.533	1.728	1.00	0.00
ATOM	366	SD	MET	23	-14.378	-6.838	-0.621	1.00	0.00
ATOM	367	CE	MET	23	-13.031	-7.163	-1.787	1.00	0.00

ATOM	368	HE1	MET	23	-12.448	-8.017	-1.441	1.00	0.00
ATOM	369	HE2	MET	23	-13.446	-7.382	-2.771	1.00	0.00
ATOM	370	HE3	MET	23	-12.386	-6.287	-1.852	1.00	0.00
ATOM	371	C	MET	23	-10.550	-5.923	1.814	1.00	0.00
ATOM	372	O	MET	23	-10.550	-6.951	2.488	1.00	0.00
ATOM	373	N	TYR	24	-9.548	-5.574	1.003	1.00	0.00
ATOM	374	H	TYR	24	-9.622	-4.741	0.437	1.00	0.00
ATOM	375	CA	TYR	24	-8.357	-6.404	0.860	1.00	0.00
ATOM	376	HA	TYR	24	-8.633	-7.401	0.515	1.00	0.00
ATOM	377	CB	TYR	24	-7.399	-5.773	-0.172	1.00	0.00
ATOM	378	HB2	TYR	24	-7.391	-6.388	-1.072	1.00	0.00
ATOM	379	HB3	TYR	24	-7.778	-4.780	-0.413	1.00	0.00
ATOM	380	CG	TYR	24	-5.986	-5.656	0.372	1.00	0.00
ATOM	381	CD1	TYR	24	-5.289	-6.798	0.783	1.00	0.00
ATOM	382	HD1	TYR	24	-5.763	-7.778	0.722	1.00	0.00
ATOM	383	CE1	TYR	24	-3.982	-6.682	1.273	1.00	0.00
ATOM	384	HE1	TYR	24	-3.442	-7.571	1.601	1.00	0.00
ATOM	385	CZ	TYR	24	-3.371	-5.425	1.346	1.00	0.00
ATOM	386	OH	TYR	24	-2.081	-5.311	1.822	1.00	0.00
ATOM	387	HH	TYR	24	-1.698	-6.155	2.075	1.00	0.00
ATOM	388	CE2	TYR	24	-4.065	-4.285	0.933	1.00	0.00
ATOM	389	HE2	TYR	24	-3.588	-3.307	0.990	1.00	0.00

ATOM	390	CD2 TYR	24	-5.372	-4.399	0.446	1.00	0.00
ATOM	391	HD2 TYR	24	-5.913	-3.510	0.124	1.00	0.00
ATOM	392	C TYR	24	-7.681	-6.575	2.218	1.00	0.00
ATOM	393	O TYR	24	-7.275	-7.675	2.582	1.00	0.00
ATOM	394	N MET	25	-7.575	-5.483	2.974	1.00	0.00
ATOM	395	H MET	25	-7.916	-4.589	2.653	1.00	0.00
ATOM	396	CA MET	25	-6.961	-5.555	4.297	1.00	0.00
ATOM	397	HA MET	25	-5.912	-5.839	4.207	1.00	0.00
ATOM	398	CB MET	25	-7.041	-4.193	4.988	1.00	0.00
ATOM	399	HB2 MET	25	-8.087	-3.919	5.122	1.00	0.00
ATOM	400	HB3 MET	25	-6.555	-4.255	5.962	1.00	0.00
ATOM	401	CG MET	25	-6.339	-3.130	4.133	1.00	0.00
ATOM	402	HG2 MET	25	-6.755	-3.138	3.126	1.00	0.00
ATOM	403	HG3 MET	25	-6.486	-2.147	4.580	1.00	0.00
ATOM	404	SD MET	25	-4.567	-3.485	4.046	1.00	0.00
ATOM	405	CE MET	25	-4.159	-3.037	5.751	1.00	0.00
ATOM	406	HE1 MET	25	-4.724	-3.667	6.438	1.00	0.00
ATOM	407	HE2 MET	25	-3.092	-3.183	5.920	1.00	0.00
ATOM	408	HE3 MET	25	-4.414	-1.992	5.924	1.00	0.00
ATOM	409	C MET	25	-7.706	-6.589	5.136	1.00	0.00
ATOM	410	O MET	25	-7.108	-7.507	5.717	1.00	0.00
ATOM	411	N ARG	26	-9.031	-6.455	5.164	1.00	0.00

ATOM	412	H	ARG	26	-9.485	-5.687	4.692	1.00	0.00
ATOM	413	CA	ARG	26	-9.858	-7.400	5.897	1.00	0.00
ATOM	414	HA	ARG	26	-9.582	-7.396	6.952	1.00	0.00
ATOM	415	CB	ARG	26	-11.337	-7.012	5.775	1.00	0.00
ATOM	416	HB2	ARG	26	-11.468	-5.984	6.111	1.00	0.00
ATOM	417	HB3	ARG	26	-11.646	-7.096	4.733	1.00	0.00
ATOM	418	CG	ARG	26	-12.194	-7.944	6.639	1.00	0.00
ATOM	419	HG2	ARG	26	-13.246	-7.791	6.399	1.00	0.00
ATOM	420	HG3	ARG	26	-11.921	-8.979	6.431	1.00	0.00
ATOM	421	CD	ARG	26	-11.960	-7.643	8.122	1.00	0.00
ATOM	422	HD2	ARG	26	-10.898	-7.722	8.355	1.00	0.00
ATOM	423	HD3	ARG	26	-12.309	-6.638	8.357	1.00	0.00
ATOM	424	NE	ARG	26	-12.692	-8.599	8.950	1.00	0.00
ATOM	425	HE	ARG	26	-13.601	-8.928	8.657	1.00	0.00
ATOM	426	CZ	ARG	26	-12.189	-9.057	10.097	1.00	0.00
ATOM	427	NH1	ARG	26	-11.021	-8.651	10.516	1.00	0.00
ATOM	428	HH11	ARG	26	-10.494	-7.986	9.968	1.00	0.00
ATOM	429	HH12	ARG	26	-10.649	-9.005	11.386	1.00	0.00
ATOM	430	NH2	ARG	26	-12.870	-9.916	10.804	1.00	0.00
ATOM	431	HH21	ARG	26	-13.773	-10.230	10.479	1.00	0.00
ATOM	432	HH22	ARG	26	-12.490	-10.264	11.673	1.00	0.00
ATOM	433	C	ARG	26	-9.624	-8.793	5.327	1.00	0.00



ATOM	434	O	ARG	26	-9.515	-9.780	6.062	1.00	0.00
ATOM	435	N	GLN	27	-9.507	-8.853	4.005	1.00	0.00
ATOM	436	H	GLN	27	-9.631	-8.025	3.440	1.00	0.00
ATOM	437	CA	GLN	27	-9.242	-10.106	3.335	1.00	0.00
ATOM	438	HA	GLN	27	-10.036	-10.818	3.560	1.00	0.00
ATOM	439	CB	GLN	27	-9.179	-9.906	1.813	1.00	0.00
ATOM	440	HB2	GLN	27	-10.157	-9.589	1.453	1.00	0.00
ATOM	441	HB3	GLN	27	-8.440	-9.138	1.583	1.00	0.00
ATOM	442	CG	GLN	27	-8.782	-11.220	1.125	1.00	0.00
ATOM	443	HG2	GLN	27	-8.898	-11.114	0.047	1.00	0.00
ATOM	444	HG3	GLN	27	-7.746	-11.470	1.356	1.00	0.00
ATOM	445	CD	GLN	27	-9.675	-12.360	1.601	1.00	0.00
ATOM	446	OE1	GLN	27	-10.517	-12.852	0.850	1.00	0.00
ATOM	447	NE2	GLN	27	-9.542	-12.801	2.821	1.00	0.00
ATOM	448	HE21	GLN	27	-10.127	-13.556	3.149	1.00	0.00
ATOM	449	HE22	GLN	27	-8.854	-12.386	3.433	1.00	0.00
ATOM	450	C	GLN	27	-7.935	-10.677	3.855	1.00	0.00
ATOM	451	O	GLN	27	-7.801	-11.875	4.053	1.00	0.00
ATOM	452	N	GLN	28	-6.970	-9.815	4.111	1.00	0.00
ATOM	453	H	GLN	28	-7.079	-8.823	3.959	1.00	0.00
ATOM	454	CA	GLN	28	-5.715	-10.291	4.624	1.00	0.00
ATOM	455	HA	GLN	28	-5.251	-10.976	3.914	1.00	0.00

ATOM	456	CB	GLN	28	-4.786	-9.122	4.845	1.00	0.00
ATOM	457	HB2	GLN	28	-4.733	-8.531	3.931	1.00	0.00
ATOM	458	HB3	GLN	28	-5.175	-8.505	5.655	1.00	0.00
ATOM	459	CG	GLN	28	-3.384	-9.621	5.212	1.00	0.00
ATOM	460	HG2	GLN	28	-3.144	-10.512	4.632	1.00	0.00
ATOM	461	HG3	GLN	28	-2.648	-8.844	5.005	1.00	0.00
ATOM	462	CD	GLN	28	-3.317	-9.973	6.696	1.00	0.00
ATOM	463	OE1	GLN	28	-2.879	-11.148	7.058	1.00	0.00
ATOM	464	NE2	GLN	28	-3.673	-9.157	7.547	1.00	0.00
ATOM	465	HE21	GLN	28	-3.624	-9.400	8.527	1.00	0.00
ATOM	466	HE22	GLN	28	-4.011	-8.250	7.262	1.00	0.00
ATOM	467	C	GLN	28	-5.957	-11.008	5.941	1.00	0.00
ATOM	468	O	GLN	28	-5.350	-12.044	6.217	1.00	0.00
ATOM	469	N	MET	29	-6.862	-10.452	6.749	1.00	0.00
ATOM	470	H	MET	29	-7.326	-9.591	6.500	1.00	0.00
ATOM	471	CA	MET	29	-7.183	-11.065	8.035	1.00	0.00
ATOM	472	HA	MET	29	-6.283	-11.129	8.648	1.00	0.00
ATOM	473	CB	MET	29	-8.227	-10.230	8.784	1.00	0.00
ATOM	474	HB2	MET	29	-9.038	-9.970	8.105	1.00	0.00
ATOM	475	HB3	MET	29	-8.623	-10.809	9.618	1.00	0.00
ATOM	476	CG	MET	29	-7.578	-8.951	9.315	1.00	0.00
ATOM	477	HG2	MET	29	-7.198	-8.355	8.486	1.00	0.00

ATOM	478	HG3 MET	29	-8.309	-8.369	9.876	1.00	0.00
ATOM	479	SD MET	29	-6.205	-9.393	10.408	1.00	0.00
ATOM	480	CE MET	29	-7.165	-10.344	11.615	1.00	0.00
ATOM	481	HE1 MET	29	-7.647	-11.184	11.116	1.00	0.00
ATOM	482	HE2 MET	29	-6.501	-10.718	12.395	1.00	0.00
ATOM	483	HE3 MET	29	-7.924	-9.703	12.063	1.00	0.00
ATOM	484	C MET	29	-7.714	-12.480	7.830	1.00	0.00
ATOM	485	O MET	29	-7.169	-13.436	8.379	1.00	0.00
ATOM	486	N GLU	30	-8.767	-12.617	7.024	1.00	0.00
ATOM	487	H GLU	30	-9.213	-11.816	6.602	1.00	0.00
ATOM	488	CA GLU	30	-9.325	-13.944	6.756	1.00	0.00
ATOM	489	HA GLU	30	-9.532	-14.454	7.697	1.00	0.00
ATOM	490	CB GLU	30	-10.631	-13.829	5.963	1.00	0.00
ATOM	491	HB2 GLU	30	-10.465	-13.211	5.081	1.00	0.00
ATOM	492	HB3 GLU	30	-10.954	-14.823	5.654	1.00	0.00
ATOM	493	CG GLU	30	-11.713	-13.190	6.838	1.00	0.00
ATOM	494	HG2 GLU	30	-12.694	-13.541	6.519	1.00	0.00
ATOM	495	HG3 GLU	30	-11.543	-13.481	7.875	1.00	0.00
ATOM	496	CD GLU	30	-11.654	-11.671	6.721	1.00	0.00
ATOM	497	OE1 GLU	30	-11.795	-11.176	5.614	1.00	0.00
ATOM	498	OE2 GLU	30	-11.477	-11.024	7.741	1.00	0.00
ATOM	499	C GLU	30	-8.326	-14.796	5.974	1.00	0.00

ATOM	500	O	GLU	30	-8.143	-15.981	6.251	1.00	0.00
ATOM	501	N	GLU	31	-7.692	-14.166	4.987	1.00	0.00
ATOM	502	H	GLU	31	-7.913	-13.200	4.796	1.00	0.00
ATOM	503	CA	GLU	31	-6.710	-14.834	4.135	1.00	0.00
ATOM	504	HA	GLU	31	-7.120	-15.766	3.745	1.00	0.00
ATOM	505	CB	GLU	31	-6.350	-13.925	2.954	1.00	0.00
ATOM	506	HB2	GLU	31	-7.258	-13.464	2.567	1.00	0.00
ATOM	507	HB3	GLU	31	-5.666	-13.148	3.295	1.00	0.00
ATOM	508	CG	GLU	31	-5.679	-14.745	1.844	1.00	0.00
ATOM	509	HG2	GLU	31	-4.821	-15.271	2.262	1.00	0.00
ATOM	510	HG3	GLU	31	-6.396	-15.470	1.458	1.00	0.00
ATOM	511	CD	GLU	31	-5.213	-13.833	0.706	1.00	0.00
ATOM	512	OE1	GLU	31	-5.354	-12.625	0.832	1.00	0.00
ATOM	513	OE2	GLU	31	-4.719	-14.359	-0.279	1.00	0.00
ATOM	514	C	GLU	31	-5.445	-15.198	4.920	1.00	0.00
ATOM	515	O	GLU	31	-4.539	-15.824	4.378	1.00	0.00
ATOM	516	N	SER	32	-5.384	-14.792	6.190	1.00	0.00
ATOM	517	H	SER	32	-6.144	-14.259	6.588	1.00	0.00
ATOM	518	CA	SER	32	-4.216	-15.071	7.032	1.00	0.00
ATOM	519	HA	SER	32	-3.389	-14.419	6.751	1.00	0.00
ATOM	520	CB	SER	32	-4.557	-14.822	8.501	1.00	0.00
ATOM	521	HB2	SER	32	-3.673	-14.997	9.115	1.00	0.00

ATOM	522	HB3	SER	32	-4.889	-13.792	8.629	1.00	0.00
ATOM	523	OG	SER	32	-5.595	-15.708	8.901	1.00	0.00
ATOM	524	HG	SER	32	-5.810	-15.553	9.824	1.00	0.00
ATOM	525	C	SER	32	-3.747	-16.512	6.851	1.00	0.00
ATOM	526	O	SER	32	-2.589	-16.834	7.116	1.00	0.00
ATOM	527	N	THR	33	-4.655	-17.370	6.399	1.00	0.00
ATOM	528	H	THR	33	-5.604	-17.066	6.237	1.00	0.00
ATOM	529	CA	THR	33	-4.327	-18.768	6.156	1.00	0.00
ATOM	530	HA	THR	33	-3.695	-19.153	6.957	1.00	0.00
ATOM	531	CB	THR	33	-5.614	-19.599	6.106	1.00	0.00
ATOM	532	HB	THR	33	-5.370	-20.630	5.847	1.00	0.00
ATOM	533	CG2	THR	33	-6.302	-19.566	7.473	1.00	0.00
ATOM	534	HG21	THR	33	-6.547	-18.536	7.733	1.00	0.00
ATOM	535	HG22	THR	33	-7.216	-20.158	7.435	1.00	0.00
ATOM	536	HG23	THR	33	-5.633	-19.981	8.227	1.00	0.00
ATOM	537	OG1	THR	33	-6.488	-19.059	5.123	1.00	0.00
ATOM	538	HG1	THR	33	-7.294	-19.579	5.092	1.00	0.00
ATOM	539	C	THR	33	-3.550	-18.942	4.839	1.00	0.00
ATOM	540	O	THR	33	-2.443	-19.480	4.824	1.00	0.00
ATOM	541	N	TYR	34	-4.179	-18.521	3.732	1.00	0.00
ATOM	542	H	TYR	34	-5.101	-18.118	3.816	1.00	0.00
ATOM	543	CA	TYR	34	-3.599	-18.664	2.385	1.00	0.00

ATOM	544	HA	TYR	34	-2.812	-19.419	2.388	1.00	0.00
ATOM	545	CB	TYR	34	-4.694	-19.102	1.408	1.00	0.00
ATOM	546	HB2	TYR	34	-5.463	-18.332	1.352	1.00	0.00
ATOM	547	HB3	TYR	34	-4.257	-19.251	0.421	1.00	0.00
ATOM	548	CG	TYR	34	-5.311	-20.396	1.886	1.00	0.00
ATOM	549	CD1	TYR	34	-4.633	-21.607	1.699	1.00	0.00
ATOM	550	HD1	TYR	34	-3.660	-21.617	1.207	1.00	0.00
ATOM	551	CE1	TYR	34	-5.204	-22.805	2.144	1.00	0.00
ATOM	552	HE1	TYR	34	-4.676	-23.748	1.998	1.00	0.00
ATOM	553	CZ	TYR	34	-6.453	-22.793	2.777	1.00	0.00
ATOM	554	OH	TYR	34	-7.015	-23.974	3.215	1.00	0.00
ATOM	555	HH	TYR	34	-6.465	-24.741	3.035	1.00	0.00
ATOM	556	CE2	TYR	34	-7.130	-21.582	2.964	1.00	0.00
ATOM	557	HE2	TYR	34	-8.102	-21.573	3.457	1.00	0.00
ATOM	558	CD2	TYR	34	-6.560	-20.385	2.520	1.00	0.00
ATOM	559	HD2	TYR	34	-7.087	-19.443	2.667	1.00	0.00
ATOM	560	C	TYR	34	-2.934	-17.386	1.844	1.00	0.00
ATOM	561	O	TYR	34	-2.550	-17.354	0.674	1.00	0.00
ATOM	562	N	GLN	35	-2.844	-16.332	2.658	1.00	0.00
ATOM	563	H	GLN	35	-3.199	-16.388	3.602	1.00	0.00
ATOM	564	CA	GLN	35	-2.264	-15.052	2.203	1.00	0.00
ATOM	565	HA	GLN	35	-3.034	-14.467	1.702	1.00	0.00

ATOM	566	CB	GLN	35	-1.712	-14.233	3.376	1.00	0.00
ATOM	567	HB2	GLN	35	-1.507	-13.219	3.034	1.00	0.00
ATOM	568	HB3	GLN	35	-2.458	-14.205	4.171	1.00	0.00
ATOM	569	CG	GLN	35	-0.417	-14.863	3.912	1.00	0.00
ATOM	570	HG2	GLN	35	0.303	-14.991	3.103	1.00	0.00
ATOM	571	HG3	GLN	35	0.013	-14.222	4.682	1.00	0.00
ATOM	572	CD	GLN	35	-0.709	-16.226	4.522	1.00	0.00
ATOM	573	OE1	GLN	35	-1.912	-16.484	4.939	1.00	0.00
ATOM	574	NE2	GLN	35	0.177	-17.074	4.615	1.00	0.00
ATOM	575	HE21	GLN	35	-0.031	-17.975	5.022	1.00	0.00
ATOM	576	HE22	GLN	35	1.108	-16.866	4.284	1.00	0.00
ATOM	577	C	GLN	35	-1.140	-15.235	1.194	1.00	0.00
ATOM	578	O	GLN	35	-0.948	-14.379	0.329	1.00	0.00
ATOM	579	N	THR	36	-0.392	-16.329	1.296	1.00	0.00
ATOM	580	H	THR	36	-0.547	-17.022	2.014	1.00	0.00
ATOM	581	CA	THR	36	0.698	-16.539	0.361	1.00	0.00
ATOM	582	HA	THR	36	1.421	-15.727	0.440	1.00	0.00
ATOM	583	CB	THR	36	1.410	-17.860	0.671	1.00	0.00
ATOM	584	HB	THR	36	0.734	-18.691	0.469	1.00	0.00
ATOM	585	CG2	THR	36	2.658	-17.993	-0.206	1.00	0.00
ATOM	586	HG21	THR	36	3.335	-17.163	-0.004	1.00	0.00
ATOM	587	HG22	THR	36	3.162	-18.934	0.018	1.00	0.00

ATOM	588	HG23 THR	36	2.368	-17.978	-1.256	1.00	0.00
ATOM	589	OG1 THR	36	1.788	-17.880	2.040	1.00	0.00
ATOM	590	HG1 THR	36	2.235	-18.707	2.237	1.00	0.00
ATOM	591	C THR	36	0.136	-16.568	-1.054	1.00	0.00
ATOM	592	O THR	36	-0.524	-17.525	-1.458	1.00	0.00
ATOM	593	N MET	37	0.396	-15.492	-1.788	1.00	0.00
ATOM	594	H MET	37	0.925	-14.727	-1.394	1.00	0.00
ATOM	595	CA MET	37	-0.091	-15.363	-3.158	1.00	0.00
ATOM	596	HA MET	37	-1.177	-15.447	-3.180	1.00	0.00
ATOM	597	CB MET	37	0.306	-13.995	-3.720	1.00	0.00
ATOM	598	HB2 MET	37	1.383	-13.859	-3.615	1.00	0.00
ATOM	599	HB3 MET	37	0.035	-13.944	-4.774	1.00	0.00
ATOM	600	CG MET	37	-0.426	-12.890	-2.951	1.00	0.00
ATOM	601	HG2 MET	37	-0.413	-13.114	-1.884	1.00	0.00
ATOM	602	HG3 MET	37	0.065	-11.933	-3.126	1.00	0.00
ATOM	603	SD MET	37	-2.143	-12.792	-3.519	1.00	0.00
ATOM	604	CE MET	37	-1.863	-11.663	-4.905	1.00	0.00
ATOM	605	HE1 MET	37	-1.167	-12.118	-5.610	1.00	0.00
ATOM	606	HE2 MET	37	-2.809	-11.462	-5.407	1.00	0.00
ATOM	607	HE3 MET	37	-1.444	-10.728	-4.533	1.00	0.00
ATOM	608	C MET	37	0.473	-16.468	-4.051	1.00	0.00
ATOM	609	O MET	37	1.679	-16.524	-4.292	1.00	0.00



ATOM	610	N	PRO	38	-0.375	-17.335	-4.553	1.00	0.00
ATOM	611	CD	PRO	38	-1.832	-17.353	-4.325	1.00	0.00
ATOM	612	HD2	PRO	38	-2.269	-16.451	-4.751	1.00	0.00
ATOM	613	HD3	PRO	38	-2.023	-17.378	-3.252	1.00	0.00
ATOM	614	CG	PRO	38	-2.306	-18.629	-5.033	1.00	0.00
ATOM	615	HG2	PRO	38	-2.814	-18.354	-5.957	1.00	0.00
ATOM	616	HG3	PRO	38	-3.000	-19.160	-4.381	1.00	0.00
ATOM	617	CB	PRO	38	-1.091	-19.455	-5.303	1.00	0.00
ATOM	618	HB2	PRO	38	-1.242	-19.982	-6.245	1.00	0.00
ATOM	619	HB3	PRO	38	-0.852	-20.175	-4.520	1.00	0.00
ATOM	620	CA	PRO	38	0.045	-18.447	-5.448	1.00	0.00
ATOM	621	HA	PRO	38	1.005	-18.828	-5.099	1.00	0.00
ATOM	622	C	PRO	38	0.179	-17.981	-6.895	1.00	0.00
ATOM	623	O	PRO	38	-0.587	-17.132	-7.353	1.00	0.00
ATOM	624	N	ARG	39	1.149	-18.541	-7.611	1.00	0.00
ATOM	625	H	ARG	39	1.745	-19.252	-7.211	1.00	0.00
ATOM	626	CA	ARG	39	1.358	-18.167	-9.007	1.00	0.00
ATOM	627	HA	ARG	39	1.577	-17.102	-9.074	1.00	0.00
ATOM	628	CB	ARG	39	2.528	-18.943	-9.600	1.00	0.00
ATOM	629	HB2	ARG	39	2.262	-19.998	-9.668	1.00	0.00
ATOM	630	HB3	ARG	39	2.747	-18.559	-10.596	1.00	0.00
ATOM	631	CG	ARG	39	3.765	-18.786	-8.710	1.00	0.00

ATOM	632	HG2	ARG	39	3.986	-17.727	-8.579	1.00	0.00
ATOM	633	HG3	ARG	39	3.573	-19.240	-7.737	1.00	0.00
ATOM	634	CD	ARG	39	4.961	-19.479	-9.368	1.00	0.00
ATOM	635	HD2	ARG	39	4.694	-20.501	-9.638	1.00	0.00
ATOM	636	HD3	ARG	39	5.259	-18.933	-10.263	1.00	0.00
ATOM	637	NE	ARG	39	6.093	-19.520	-8.447	1.00	0.00
ATOM	638	HE	ARG	39	6.857	-18.868	-8.554	1.00	0.00
ATOM	639	CZ	ARG	39	6.149	-20.407	-7.453	1.00	0.00
ATOM	640	NH1	ARG	39	5.179	-21.264	-7.282	1.00	0.00
ATOM	641	HH11	ARG	39	4.385	-21.254	-7.905	1.00	0.00
ATOM	642	HH12	ARG	39	5.228	-21.933	-6.527	1.00	0.00
ATOM	643	NH2	ARG	39	7.177	-20.417	-6.649	1.00	0.00
ATOM	644	HH21	ARG	39	7.926	-19.753	-6.783	1.00	0.00
ATOM	645	HH22	ARG	39	7.219	-21.089	-5.896	1.00	0.00
ATOM	646	C	ARG	39	0.126	-18.508	-9.821	1.00	0.00
ATOM	647	O	ARG	39	-0.276	-17.757	-10.710	1.00	0.00
ATOM	648	N	ARG	40	-0.464	-19.662	-9.514	1.00	0.00
ATOM	649	H	ARG	40	-0.086	-20.262	-8.794	1.00	0.00
ATOM	650	CA	ARG	40	-1.641	-20.108	-10.231	1.00	0.00
ATOM	651	HA	ARG	40	-1.472	-20.032	-11.305	1.00	0.00
ATOM	652	CB	ARG	40	-1.952	-21.566	-9.888	1.00	0.00
ATOM	653	HB2	ARG	40	-1.970	-21.689	-8.805	1.00	0.00

ATOM	654	HB3	ARG	40	-2.923	-21.838	-10.300	1.00	0.00
ATOM	655	CG	ARG	40	-0.873	-22.472	-10.486	1.00	0.00
ATOM	656	HG2	ARG	40	0.109	-22.045	-10.283	1.00	0.00
ATOM	657	HG3	ARG	40	-0.939	-23.460	-10.030	1.00	0.00
ATOM	658	CD	ARG	40	-1.074	-22.594	-12.001	1.00	0.00
ATOM	659	HD2	ARG	40	-1.060	-21.604	-12.456	1.00	0.00
ATOM	660	HD3	ARG	40	-0.278	-23.202	-12.431	1.00	0.00
ATOM	661	NE	ARG	40	-2.357	-23.227	-12.295	1.00	0.00
ATOM	662	HE	ARG	40	-3.150	-22.661	-12.558	1.00	0.00
ATOM	663	CZ	ARG	40	-2.514	-24.548	-12.225	1.00	0.00
ATOM	664	NH1	ARG	40	-1.512	-25.313	-11.883	1.00	0.00
ATOM	665	HH11	ARG	40	-0.615	-24.901	-11.671	1.00	0.00
ATOM	666	HH12	ARG	40	-1.639	-26.314	-11.832	1.00	0.00
ATOM	667	NH2	ARG	40	-3.674	-25.080	-12.499	1.00	0.00
ATOM	668	HH21	ARG	40	-4.448	-24.488	-12.763	1.00	0.00
ATOM	669	HH22	ARG	40	-3.792	-26.082	-12.445	1.00	0.00
ATOM	670	C	ARG	40	-2.826	-19.230	-9.890	1.00	0.00
ATOM	671	O	ARG	40	-3.472	-19.393	-8.853	1.00	0.00
ATOM	672	N	GLY	41	-3.095	-18.306	-10.791	1.00	0.00
ATOM	673	H	GLY	41	-2.520	-18.230	-11.618	1.00	0.00
ATOM	674	CA	GLY	41	-4.211	-17.375	-10.634	1.00	0.00
ATOM	675	HA2	GLY	41	-4.148	-16.614	-11.411	1.00	0.00

ATOM	676	HA3	GLY	41	-5.146	-17.924	-10.739	1.00	0.00
ATOM	677	C	GLY	41	-4.185	-16.694	-9.268	1.00	0.00
ATOM	678	O	GLY	41	-4.841	-17.146	-8.328	1.00	0.00
ATOM	679	N	MET	42	-3.429	-15.601	-9.168	1.00	0.00
ATOM	680	H	MET	42	-2.896	-15.276	-9.962	1.00	0.00
ATOM	681	CA	MET	42	-3.326	-14.857	-7.912	1.00	0.00
ATOM	682	HA	MET	42	-2.880	-15.485	-7.140	1.00	0.00
ATOM	683	CB	MET	42	-2.441	-13.622	-8.110	1.00	0.00
ATOM	684	HB2	MET	42	-2.815	-13.039	-8.951	1.00	0.00
ATOM	685	HB3	MET	42	-2.463	-13.012	-7.207	1.00	0.00
ATOM	686	CG	MET	42	-1.002	-14.060	-8.394	1.00	0.00
ATOM	687	HG2	MET	42	-0.644	-14.699	-7.586	1.00	0.00
ATOM	688	HG3	MET	42	-0.962	-14.609	-9.335	1.00	0.00
ATOM	689	SD	MET	42	0.060	-12.600	-8.512	1.00	0.00
ATOM	690	CE	MET	42	1.587	-13.463	-8.959	1.00	0.00
ATOM	691	HE1	MET	42	1.439	-14.005	-9.893	1.00	0.00
ATOM	692	HE2	MET	42	2.392	-12.738	-9.084	1.00	0.00
ATOM	693	HE3	MET	42	1.852	-14.167	-8.169	1.00	0.00
ATOM	694	C	MET	42	-4.709	-14.423	-7.427	1.00	0.00
ATOM	695	O	MET	42	-5.702	-14.569	-8.141	1.00	0.00
ATOM	696	N	GLU	43	-4.767	-13.891	-6.207	1.00	0.00
ATOM	697	H	GLU	43	-3.933	-13.804	-5.643	1.00	0.00

ATOM	698	CA	GLU	43	-6.037	-13.446	-5.639	1.00	0.00
ATOM	699	HA	GLU	43	-6.785	-14.233	-5.735	1.00	0.00
ATOM	700	CB	GLU	43	-5.860	-13.118	-4.152	1.00	0.00
ATOM	701	HB2	GLU	43	-5.263	-13.897	-3.677	1.00	0.00
ATOM	702	HB3	GLU	43	-5.352	-12.159	-4.049	1.00	0.00
ATOM	703	CG	GLU	43	-7.233	-13.044	-3.476	1.00	0.00
ATOM	704	HG2	GLU	43	-7.815	-12.238	-3.921	1.00	0.00
ATOM	705	HG3	GLU	43	-7.750	-13.992	-3.628	1.00	0.00
ATOM	706	CD	GLU	43	-7.071	-12.788	-1.979	1.00	0.00
ATOM	707	OE1	GLU	43	-6.548	-11.744	-1.629	1.00	0.00
ATOM	708	OE2	GLU	43	-7.481	-13.637	-1.204	1.00	0.00
ATOM	709	C	GLU	43	-6.553	-12.212	-6.382	1.00	0.00
ATOM	710	O	GLU	43	-5.829	-11.229	-6.542	1.00	0.00
ATOM	711	N	PRO	44	-7.783	-12.253	-6.841	1.00	0.00
ATOM	712	CD	PRO	44	-8.715	-13.383	-6.691	1.00	0.00
ATOM	713	HD2	PRO	44	-8.707	-13.719	-5.654	1.00	0.00
ATOM	714	HD3	PRO	44	-8.395	-14.200	-7.339	1.00	0.00
ATOM	715	CG	PRO	44	-10.063	-12.802	-7.109	1.00	0.00
ATOM	716	HG2	PRO	44	-10.600	-12.470	-6.221	1.00	0.00
ATOM	717	HG3	PRO	44	-10.643	-13.573	-7.617	1.00	0.00
ATOM	718	CB	PRO	44	-9.771	-11.663	-8.027	1.00	0.00
ATOM	719	HB2	PRO	44	-10.533	-10.894	-7.900	1.00	0.00

ATOM	720	HB3 PRO	44	-9.733	-11.969	-9.072	1.00	0.00
ATOM	721	CA PRO	44	-8.405	-11.119	-7.592	1.00	0.00
ATOM	722	HA PRO	44	-7.768	-10.894	-8.447	1.00	0.00
ATOM	723	C PRO	44	-8.567	-9.866	-6.734	1.00	0.00
ATOM	724	O PRO	44	-8.619	-8.752	-7.259	1.00	0.00
ATOM	725	N HIE	45	-8.651	-10.053	-5.419	1.00	0.00
ATOM	726	H HIE	45	-8.623	-10.984	-5.029	1.00	0.00
ATOM	727	CA HIE	45	-8.813	-8.924	-4.506	1.00	0.00
ATOM	728	HA HIE	45	-9.786	-8.459	-4.659	1.00	0.00
ATOM	729	CB HIE	45	-8.722	-9.402	-3.054	1.00	0.00
ATOM	730	HB2 HIE	45	-7.804	-9.956	-2.857	1.00	0.00
ATOM	731	HB3 HIE	45	-8.807	-8.578	-2.346	1.00	0.00
ATOM	732	CG HIE	45	-9.862	-10.340	-2.762	1.00	0.00
ATOM	733	ND1 HIE	45	-9.656	-11.650	-2.360	1.00	0.00
ATOM	734	CE1 HIE	45	-10.864	-12.216	-2.187	1.00	0.00
ATOM	735	HE1 HIE	45	-10.886	-13.258	-1.868	1.00	0.00
ATOM	736	NE2 HIE	45	-11.854	-11.359	-2.449	1.00	0.00
ATOM	737	HE2 HIE	45	-12.854	-11.495	-2.407	1.00	0.00
ATOM	738	CD2 HIE	45	-11.224	-10.174	-2.812	1.00	0.00
ATOM	739	HD2 HIE	45	-11.818	-9.301	-3.079	1.00	0.00
ATOM	740	C HIE	45	-7.741	-7.868	-4.765	1.00	0.00
ATOM	741	O HIE	45	-8.039	-6.674	-4.836	1.00	0.00

ATOM	742	N	MET	46	-6.497	-8.317	-4.916	1.00	0.00
ATOM	743	H	MET	46	-6.294	-9.304	-4.848	1.00	0.00
ATOM	744	CA	MET	46	-5.392	-7.400	-5.178	1.00	0.00
ATOM	745	HA	MET	46	-5.363	-6.623	-4.414	1.00	0.00
ATOM	746	CB	MET	46	-4.061	-8.160	-5.153	1.00	0.00
ATOM	747	HB2	MET	46	-4.034	-8.860	-5.988	1.00	0.00
ATOM	748	HB3	MET	46	-3.241	-7.448	-5.249	1.00	0.00
ATOM	749	CG	MET	46	-3.915	-8.930	-3.838	1.00	0.00
ATOM	750	HG2	MET	46	-4.633	-9.750	-3.813	1.00	0.00
ATOM	751	HG3	MET	46	-2.904	-9.331	-3.760	1.00	0.00
ATOM	752	SD	MET	46	-4.225	-7.825	-2.439	1.00	0.00
ATOM	753	CE	MET	46	-4.831	-9.089	-1.293	1.00	0.00
ATOM	754	HE1	MET	46	-4.054	-9.838	-1.133	1.00	0.00
ATOM	755	HE2	MET	46	-5.088	-8.624	-0.341	1.00	0.00
ATOM	756	HE3	MET	46	-5.715	-9.568	-1.714	1.00	0.00
ATOM	757	C	MET	46	-5.568	-6.747	-6.548	1.00	0.00
ATOM	758	O	MET	46	-5.353	-5.546	-6.712	1.00	0.00
ATOM	759	N	SER	47	-5.961	-7.563	-7.524	1.00	0.00
ATOM	760	H	SER	47	-6.100	-8.545	-7.329	1.00	0.00
ATOM	761	CA	SER	47	-6.169	-7.092	-8.891	1.00	0.00
ATOM	762	HA	SER	47	-5.241	-6.684	-9.292	1.00	0.00
ATOM	763	CB	SER	47	-6.615	-8.256	-9.778	1.00	0.00

ATOM	764	HB2	SER	47	-7.607	-8.588	-9.473	1.00	0.00
ATOM	765	HB3	SER	47	-6.644	-7.932	-10.818	1.00	0.00
ATOM	766	OG	SER	47	-5.694	-9.330	-9.643	1.00	0.00
ATOM	767	HG	SER	47	-5.972	-10.062	-10.199	1.00	0.00
ATOM	768	C	SER	47	-7.213	-5.979	-8.950	1.00	0.00
ATOM	769	O	SER	47	-7.130	-5.086	-9.793	1.00	0.00
ATOM	770	N	GLU	48	-8.204	-6.048	-8.065	1.00	0.00
ATOM	771	H	GLU	48	-8.252	-6.810	-7.403	1.00	0.00
ATOM	772	CA	GLU	48	-9.266	-5.045	-8.046	1.00	0.00
ATOM	773	HA	GLU	48	-9.830	-5.080	-8.977	1.00	0.00
ATOM	774	CB	GLU	48	-10.226	-5.321	-6.880	1.00	0.00
ATOM	775	HB2	GLU	48	-10.050	-6.328	-6.500	1.00	0.00
ATOM	776	HB3	GLU	48	-10.045	-4.597	-6.086	1.00	0.00
ATOM	777	CG	GLU	48	-11.679	-5.202	-7.359	1.00	0.00
ATOM	778	HG2	GLU	48	-11.727	-5.458	-8.417	1.00	0.00
ATOM	779	HG3	GLU	48	-12.293	-5.899	-6.789	1.00	0.00
ATOM	780	CD	GLU	48	-12.200	-3.780	-7.155	1.00	0.00
ATOM	781	OE1	GLU	48	-11.452	-2.848	-7.401	1.00	0.00
ATOM	782	OE2	GLU	48	-13.346	-3.643	-6.758	1.00	0.00
ATOM	783	C	GLU	48	-8.678	-3.641	-7.912	1.00	0.00
ATOM	784	O	GLU	48	-8.967	-2.760	-8.723	1.00	0.00
ATOM	785	N	CYX	49	-7.845	-3.443	-6.894	1.00	0.00



ATOM	786	H	CYX	49	-7.655	-4.183	-6.233	1.00	0.00
ATOM	787	CA	CYX	49	-7.216	-2.143	-6.677	1.00	0.00
ATOM	788	HA	CYX	49	-7.970	-1.357	-6.697	1.00	0.00
ATOM	789	CB	CYX	49	-6.513	-2.115	-5.309	1.00	0.00
ATOM	790	HB2	CYX	49	-6.307	-3.135	-4.984	1.00	0.00
ATOM	791	HB3	CYX	49	-5.575	-1.566	-5.393	1.00	0.00
ATOM	792	SG	CYX	49	-7.581	-1.288	-4.102	1.00	0.00
ATOM	793	C	CYX	49	-6.210	-1.835	-7.788	1.00	0.00
ATOM	794	O	CYX	49	-6.009	-0.675	-8.141	1.00	0.00
ATOM	795	N	CYX	50	-5.581	-2.883	-8.326	1.00	0.00
ATOM	796	H	CYX	50	-5.777	-3.815	-7.987	1.00	0.00
ATOM	797	CA	CYX	50	-4.582	-2.725	-9.389	1.00	0.00
ATOM	798	HA	CYX	50	-3.694	-2.229	-8.996	1.00	0.00
ATOM	799	CB	CYX	50	-4.175	-4.093	-9.935	1.00	0.00
ATOM	800	HB2	CYX	50	-3.903	-4.749	-9.108	1.00	0.00
ATOM	801	HB3	CYX	50	-5.009	-4.529	-10.484	1.00	0.00
ATOM	802	SG	CYX	50	-2.783	-3.898	-11.080	1.00	0.00
ATOM	803	C	CYX	50	-5.095	-1.872	-10.546	1.00	0.00
ATOM	804	O	CYX	50	-4.373	-1.019	-11.063	1.00	0.00
ATOM	805	N	GLU	51	-6.331	-2.121	-10.966	1.00	0.00
ATOM	806	H	GLU	51	-6.884	-2.850	-10.538	1.00	0.00
ATOM	807	CA	GLU	51	-6.908	-1.380	-12.083	1.00	0.00

ATOM	808	HA	GLU	51	-6.309	-1.531	-12.981	1.00	0.00
ATOM	809	CB	GLU	51	-8.334	-1.872	-12.356	1.00	0.00
ATOM	810	HB2	GLU	51	-8.327	-2.956	-12.474	1.00	0.00
ATOM	811	HB3	GLU	51	-8.976	-1.603	-11.517	1.00	0.00
ATOM	812	CG	GLU	51	-8.868	-1.221	-13.639	1.00	0.00
ATOM	813	HG2	GLU	51	-9.915	-1.495	-13.769	1.00	0.00
ATOM	814	HG3	GLU	51	-8.785	-0.139	-13.543	1.00	0.00
ATOM	815	CD	GLU	51	-8.063	-1.689	-14.855	1.00	0.00
ATOM	816	OE1	GLU	51	-7.572	-2.807	-14.833	1.00	0.00
ATOM	817	OE2	GLU	51	-7.953	-0.920	-15.795	1.00	0.00
ATOM	818	C	GLU	51	-6.925	0.124	-11.810	1.00	0.00
ATOM	819	O	GLU	51	-6.707	0.925	-12.717	1.00	0.00
ATOM	820	N	GLN	52	-7.196	0.501	-10.563	1.00	0.00
ATOM	821	H	GLN	52	-7.401	-0.187	-9.852	1.00	0.00
ATOM	822	CA	GLN	52	-7.251	1.915	-10.195	1.00	0.00
ATOM	823	HA	GLN	52	-8.008	2.430	-10.785	1.00	0.00
ATOM	824	CB	GLN	52	-7.614	2.042	-8.718	1.00	0.00
ATOM	825	HB2	GLN	52	-6.856	1.547	-8.110	1.00	0.00
ATOM	826	HB3	GLN	52	-7.669	3.095	-8.443	1.00	0.00
ATOM	827	CG	GLN	52	-8.974	1.380	-8.476	1.00	0.00
ATOM	828	HG2	GLN	52	-9.105	0.540	-9.158	1.00	0.00
ATOM	829	HG3	GLN	52	-9.035	1.025	-7.447	1.00	0.00

ATOM	830	CD	GLN	52	-10.100	2.382	-8.714	1.00	0.00
ATOM	831	OE1	GLN	52	-10.203	2.958	-9.796	1.00	0.00
ATOM	832	NE2	GLN	52	-10.957	2.624	-7.759	1.00	0.00
ATOM	833	HE21	GLN	52	-11.704	3.286	-7.911	1.00	0.00
ATOM	834	HE22	GLN	52	-10.868	2.147	-6.872	1.00	0.00
ATOM	835	C	GLN	52	-5.922	2.618	-10.473	1.00	0.00
ATOM	836	O	GLN	52	-5.888	3.631	-11.171	1.00	0.00
ATOM	837	N	LEU	53	-4.826	2.068	-9.942	1.00	0.00
ATOM	838	H	LEU	53	-4.883	1.212	-9.408	1.00	0.00
ATOM	839	CA	LEU	53	-3.503	2.658	-10.171	1.00	0.00
ATOM	840	HA	LEU	53	-3.474	3.663	-9.750	1.00	0.00
ATOM	841	CB	LEU	53	-2.403	1.818	-9.508	1.00	0.00
ATOM	842	HB2	LEU	53	-2.237	0.939	-10.131	1.00	0.00
ATOM	843	HB3	LEU	53	-1.488	2.409	-9.465	1.00	0.00
ATOM	844	CG	LEU	53	-2.792	1.374	-8.091	1.00	0.00
ATOM	845	HG	LEU	53	-1.895	1.379	-7.470	1.00	0.00
ATOM	846	CD1	LEU	53	-3.847	2.306	-7.474	1.00	0.00
ATOM	847	HD11	LEU	53	-4.744	2.301	-8.093	1.00	0.00
ATOM	848	HD12	LEU	53	-4.096	1.959	-6.471	1.00	0.00
ATOM	849	HD13	LEU	53	-3.449	3.319	-7.419	1.00	0.00
ATOM	850	CD2	LEU	53	-3.347	-0.047	-8.178	1.00	0.00
ATOM	851	HD21	LEU	53	-2.584	-0.712	-8.584	1.00	0.00

ATOM	852	HD22	LEU	53	-3.632	-0.388	-7.182	1.00	0.00
ATOM	853	HD23	LEU	53	-4.221	-0.057	-8.829	1.00	0.00
ATOM	854	C	LEU	53	-3.233	2.650	-11.657	1.00	0.00
ATOM	855	O	LEU	53	-2.858	3.653	-12.264	1.00	0.00
ATOM	856	N	GLU	54	-3.452	1.475	-12.211	1.00	0.00
ATOM	857	H	GLU	54	-3.717	0.704	-11.614	1.00	0.00
ATOM	858	CA	GLU	54	-3.278	1.220	-13.619	1.00	0.00
ATOM	859	HA	GLU	54	-2.235	1.324	-13.919	1.00	0.00
ATOM	860	CB	GLU	54	-3.714	-0.221	-13.864	1.00	0.00
ATOM	861	HB2	GLU	54	-3.006	-0.891	-13.375	1.00	0.00
ATOM	862	HB3	GLU	54	-4.706	-0.367	-13.436	1.00	0.00
ATOM	863	CG	GLU	54	-3.755	-0.528	-15.367	1.00	0.00
ATOM	864	HG2	GLU	54	-4.388	0.209	-15.861	1.00	0.00
ATOM	865	HG3	GLU	54	-2.744	-0.466	-15.770	1.00	0.00
ATOM	866	CD	GLU	54	-4.317	-1.931	-15.614	1.00	0.00
ATOM	867	OE1	GLU	54	-4.634	-2.611	-14.650	1.00	0.00
ATOM	868	OE2	GLU	54	-4.421	-2.306	-16.771	1.00	0.00
ATOM	869	C	GLU	54	-4.077	2.219	-14.457	1.00	0.00
ATOM	870	O	GLU	54	-3.657	2.601	-15.550	1.00	0.00
ATOM	871	N	GLY	55	-5.216	2.654	-13.923	1.00	0.00
ATOM	872	H	GLY	55	-5.518	2.312	-13.022	1.00	0.00
ATOM	873	CA	GLY	55	-6.059	3.629	-14.613	1.00	0.00

ATOM	874	HA2	GLY	55	-5.966	3.491	-15.690	1.00	0.00
ATOM	875	HA3	GLY	55	-7.098	3.485	-14.316	1.00	0.00
ATOM	876	C	GLY	55	-5.632	5.052	-14.255	1.00	0.00
ATOM	877	O	GLY	55	-6.029	6.016	-14.910	1.00	0.00
ATOM	878	N	MET	56	-4.816	5.166	-13.209	1.00	0.00
ATOM	879	H	MET	56	-4.535	4.339	-12.701	1.00	0.00
ATOM	880	CA	MET	56	-4.321	6.463	-12.751	1.00	0.00
ATOM	881	HA	MET	56	-5.075	7.233	-12.911	1.00	0.00
ATOM	882	CB	MET	56	-4.004	6.391	-11.250	1.00	0.00
ATOM	883	HB2	MET	56	-4.920	6.173	-10.700	1.00	0.00
ATOM	884	HB3	MET	56	-3.278	5.597	-11.075	1.00	0.00
ATOM	885	CG	MET	56	-3.426	7.725	-10.770	1.00	0.00
ATOM	886	HG2	MET	56	-3.045	7.616	-9.754	1.00	0.00
ATOM	887	HG3	MET	56	-2.615	8.033	-11.430	1.00	0.00
ATOM	888	SD	MET	56	-4.720	8.988	-10.787	1.00	0.00
ATOM	889	CE	MET	56	-4.708	9.351	-9.016	1.00	0.00
ATOM	890	HE1	MET	56	-3.719	9.704	-8.723	1.00	0.00
ATOM	891	HE2	MET	56	-5.447	10.121	-8.797	1.00	0.00
ATOM	892	HE3	MET	56	-4.950	8.446	-8.457	1.00	0.00
ATOM	893	C	MET	56	-3.066	6.858	-13.522	1.00	0.00
ATOM	894	O	MET	56	-2.223	6.010	-13.824	1.00	0.00
ATOM	895	N	ASP	57	-2.942	8.150	-13.835	1.00	0.00

ATOM	896	H	ASP	57	-3.665	8.811	-13.588	1.00	0.00
ATOM	897	CA	ASP	57	-1.775	8.640	-14.565	1.00	0.00
ATOM	898	HA	ASP	57	-1.768	8.229	-15.575	1.00	0.00
ATOM	899	CB	ASP	57	-1.815	10.170	-14.658	1.00	0.00
ATOM	900	HB2	ASP	57	-1.887	10.582	-13.651	1.00	0.00
ATOM	901	HB3	ASP	57	-0.896	10.520	-15.128	1.00	0.00
ATOM	902	CG	ASP	57	-3.018	10.629	-15.485	1.00	0.00
ATOM	903	OD1	ASP	57	-3.583	9.812	-16.196	1.00	0.00
ATOM	904	OD2	ASP	57	-3.357	11.798	-15.395	1.00	0.00
ATOM	905	C	ASP	57	-0.492	8.198	-13.865	1.00	0.00
ATOM	906	O	ASP	57	-0.445	8.114	-12.638	1.00	0.00
ATOM	907	N	GLU	58	0.540	7.904	-14.651	1.00	0.00
ATOM	908	H	GLU	58	0.455	7.968	-15.655	1.00	0.00
ATOM	909	CA	GLU	58	1.811	7.453	-14.092	1.00	0.00
ATOM	910	HA	GLU	58	1.686	6.486	-13.605	1.00	0.00
ATOM	911	CB	GLU	58	2.844	7.307	-15.211	1.00	0.00
ATOM	912	HB2	GLU	58	2.570	6.473	-15.857	1.00	0.00
ATOM	913	HB3	GLU	58	2.881	8.224	-15.798	1.00	0.00
ATOM	914	CG	GLU	58	4.216	7.042	-14.594	1.00	0.00
ATOM	915	HG2	GLU	58	4.482	7.877	-13.946	1.00	0.00
ATOM	916	HG3	GLU	58	4.175	6.125	-14.005	1.00	0.00
ATOM	917	CD	GLU	58	5.267	6.895	-15.691	1.00	0.00

ATOM	918	OE1	GLU	58	5.272	5.865	-16.347	1.00	0.00
ATOM	919	OE2	GLU	58	6.054	7.813	-15.858	1.00	0.00
ATOM	920	C	GLU	58	2.346	8.420	-13.039	1.00	0.00
ATOM	921	O	GLU	58	2.588	8.030	-11.897	1.00	0.00
ATOM	922	N	SER	59	2.533	9.677	-13.427	1.00	0.00
ATOM	923	H	SER	59	2.340	9.955	-14.378	1.00	0.00
ATOM	924	CA	SER	59	3.042	10.684	-12.501	1.00	0.00
ATOM	925	HA	SER	59	4.047	10.417	-12.171	1.00	0.00
ATOM	926	CB	SER	59	3.101	12.045	-13.197	1.00	0.00
ATOM	927	HB2	SER	59	2.095	12.357	-13.476	1.00	0.00
ATOM	928	HB3	SER	59	3.536	12.782	-12.522	1.00	0.00
ATOM	929	OG	SER	59	3.905	11.940	-14.365	1.00	0.00
ATOM	930	HG	SER	59	3.944	12.792	-14.804	1.00	0.00
ATOM	931	C	SER	59	2.145	10.773	-11.273	1.00	0.00
ATOM	932	O	SER	59	2.611	11.010	-10.158	1.00	0.00
ATOM	933	N	CYX	60	0.854	10.576	-11.501	1.00	0.00
ATOM	934	H	CYX	60	0.532	10.408	-12.443	1.00	0.00
ATOM	935	CA	CYX	60	-0.137	10.628	-10.428	1.00	0.00
ATOM	936	HA	CYX	60	0.059	11.481	-9.779	1.00	0.00
ATOM	937	CB	CYX	60	-1.540	10.775	-11.020	1.00	0.00
ATOM	938	HB2	CYX	60	-1.763	9.910	-11.644	1.00	0.00
ATOM	939	HB3	CYX	60	-2.270	10.838	-10.213	1.00	0.00

ATOM	940	SG	CYX	60	-1.619	12.287	-12.011	1.00	0.00
ATOM	941	C	CYX	60	-0.074	9.375	-9.562	1.00	0.00
ATOM	942	O	CYX	60	-0.480	9.390	-8.399	1.00	0.00
ATOM	943	N	ARG	61	0.413	8.286	-10.149	1.00	0.00
ATOM	944	H	ARG	61	0.719	8.323	-11.111	1.00	0.00
ATOM	945	CA	ARG	61	0.502	7.013	-9.444	1.00	0.00
ATOM	946	HA	ARG	61	-0.483	6.700	-9.098	1.00	0.00
ATOM	947	CB	ARG	61	1.048	5.945	-10.396	1.00	0.00
ATOM	948	HB2	ARG	61	0.496	5.987	-11.334	1.00	0.00
ATOM	949	HB3	ARG	61	2.103	6.142	-10.586	1.00	0.00
ATOM	950	CG	ARG	61	0.893	4.553	-9.775	1.00	0.00
ATOM	951	HG2	ARG	61	1.364	4.535	-8.792	1.00	0.00
ATOM	952	HG3	ARG	61	-0.165	4.312	-9.675	1.00	0.00
ATOM	953	CD	ARG	61	1.567	3.521	-10.681	1.00	0.00
ATOM	954	HD2	ARG	61	2.647	3.672	-10.680	1.00	0.00
ATOM	955	HD3	ARG	61	1.342	2.513	-10.331	1.00	0.00
ATOM	956	NE	ARG	61	1.076	3.662	-12.050	1.00	0.00
ATOM	957	HE	ARG	61	1.473	4.370	-12.651	1.00	0.00
ATOM	958	CZ	ARG	61	0.109	2.886	-12.535	1.00	0.00
ATOM	959	NH1	ARG	61	-0.406	1.933	-11.804	1.00	0.00
ATOM	960	HH11	ARG	61	-0.068	1.783	-10.864	1.00	0.00
ATOM	961	HH12	ARG	61	-1.139	1.350	-12.182	1.00	0.00



ATOM	962	NH2	ARG	61	-0.321	3.076	-13.751	1.00	0.00
ATOM	963	HH21	ARG	61	0.082	3.809	-14.317	1.00	0.00
ATOM	964	HH22	ARG	61	-1.054	2.489	-14.121	1.00	0.00
ATOM	965	C	ARG	61	1.413	7.123	-8.224	1.00	0.00
ATOM	966	O	ARG	61	1.120	6.551	-7.173	1.00	0.00
ATOM	967	N	CYX	62	2.513	7.861	-8.364	1.00	0.00
ATOM	968	H	CYX	62	2.729	8.307	-9.244	1.00	0.00
ATOM	969	CA	CYX	62	3.447	8.031	-7.255	1.00	0.00
ATOM	970	HA	CYX	62	3.868	7.066	-6.970	1.00	0.00
ATOM	971	CB	CYX	62	4.593	8.962	-7.671	1.00	0.00
ATOM	972	HB2	CYX	62	4.267	9.999	-7.590	1.00	0.00
ATOM	973	HB3	CYX	62	5.450	8.799	-7.017	1.00	0.00
ATOM	974	SG	CYX	62	5.056	8.636	-9.391	1.00	0.00
ATOM	975	C	CYX	62	2.722	8.621	-6.047	1.00	0.00
ATOM	976	O	CYX	62	2.680	8.018	-4.974	1.00	0.00
ATOM	977	N	GLU	63	2.142	9.803	-6.245	1.00	0.00
ATOM	978	H	GLU	63	2.217	10.254	-7.145	1.00	0.00
ATOM	979	CA	GLU	63	1.401	10.485	-5.189	1.00	0.00
ATOM	980	HA	GLU	63	2.056	10.694	-4.342	1.00	0.00
ATOM	981	CB	GLU	63	0.853	11.811	-5.724	1.00	0.00
ATOM	982	HB2	GLU	63	1.661	12.368	-6.199	1.00	0.00
ATOM	983	HB3	GLU	63	0.072	11.608	-6.456	1.00	0.00

ATOM	984	CG	GLU	63	0.269	12.640	-4.570	1.00	0.00
ATOM	985	HG2	GLU	63	-0.452	12.030	-4.025	1.00	0.00
ATOM	986	HG3	GLU	63	1.079	12.930	-3.900	1.00	0.00
ATOM	987	CD	GLU	63	-0.425	13.895	-5.104	1.00	0.00
ATOM	988	OE1	GLU	63	-0.521	14.038	-6.314	1.00	0.00
ATOM	989	OE2	GLU	63	-0.854	14.698	-4.291	1.00	0.00
ATOM	990	C	GLU	63	0.239	9.626	-4.695	1.00	0.00
ATOM	991	O	GLU	63	-0.091	9.629	-3.509	1.00	0.00
ATOM	992	N	GLY	64	-0.394	8.915	-5.629	1.00	0.00
ATOM	993	H	GLY	64	-0.080	8.949	-6.588	1.00	0.00
ATOM	994	CA	GLY	64	-1.545	8.075	-5.306	1.00	0.00
ATOM	995	HA2	GLY	64	-2.377	8.720	-5.026	1.00	0.00
ATOM	996	HA3	GLY	64	-1.813	7.499	-6.191	1.00	0.00
ATOM	997	C	GLY	64	-1.255	7.114	-4.159	1.00	0.00
ATOM	998	O	GLY	64	-1.942	7.138	-3.138	1.00	0.00
ATOM	999	N	LEU	65	-0.248	6.264	-4.333	1.00	0.00
ATOM	1000	H	LEU	65	0.274	6.252	-5.197	1.00	0.00
ATOM	1001	CA	LEU	65	0.102	5.294	-3.300	1.00	0.00
ATOM	1002	HA	LEU	65	-0.734	4.616	-3.127	1.00	0.00
ATOM	1003	CB	LEU	65	1.317	4.470	-3.739	1.00	0.00
ATOM	1004	HB2	LEU	65	2.147	5.140	-3.962	1.00	0.00
ATOM	1005	HB3	LEU	65	1.605	3.791	-2.936	1.00	0.00

ATOM	1006	CG	LEU	65	0.964	3.659	-4.991	1.00	0.00
ATOM	1007	HG	LEU	65	0.735	4.339	-5.811	1.00	0.00
ATOM	1008	CD1	LEU	65	2.151	2.774	-5.379	1.00	0.00
ATOM	1009	HD11	LEU	65	2.381	2.093	-4.559	1.00	0.00
ATOM	1010	HD12	LEU	65	1.900	2.197	-6.269	1.00	0.00
ATOM	1011	HD13	LEU	65	3.020	3.399	-5.585	1.00	0.00
ATOM	1012	CD2	LEU	65	-0.259	2.777	-4.703	1.00	0.00
ATOM	1013	HD21	LEU	65	-1.105	3.406	-4.428	1.00	0.00
ATOM	1014	HD22	LEU	65	-0.509	2.200	-5.593	1.00	0.00
ATOM	1015	HD23	LEU	65	-0.031	2.096	-3.882	1.00	0.00
ATOM	1016	C	LEU	65	0.397	5.977	-1.969	1.00	0.00
ATOM	1017	O	LEU	65	-0.078	5.537	-0.924	1.00	0.00
ATOM	1018	N	ARG	66	1.179	7.054	-2.010	1.00	0.00
ATOM	1019	H	ARG	66	1.567	7.381	-2.883	1.00	0.00
ATOM	1020	CA	ARG	66	1.517	7.777	-0.788	1.00	0.00
ATOM	1021	HA	ARG	66	2.062	7.124	-0.105	1.00	0.00
ATOM	1022	CB	ARG	66	2.401	8.983	-1.121	1.00	0.00
ATOM	1023	HB2	ARG	66	1.900	9.606	-1.862	1.00	0.00
ATOM	1024	HB3	ARG	66	2.576	9.565	-0.216	1.00	0.00
ATOM	1025	CG	ARG	66	3.741	8.499	-1.683	1.00	0.00
ATOM	1026	HG2	ARG	66	4.222	7.840	-0.959	1.00	0.00
ATOM	1027	HG3	ARG	66	3.570	7.954	-2.611	1.00	0.00

ATOM	1028	CD	ARG	66	4.647	9.703	-1.957	1.00	0.00
ATOM	1029	HD2	ARG	66	5.544	9.378	-2.486	1.00	0.00
ATOM	1030	HD3	ARG	66	4.115	10.436	-2.562	1.00	0.00
ATOM	1031	NE	ARG	66	5.047	10.334	-0.701	1.00	0.00
ATOM	1032	HE	ARG	66	4.586	11.177	-0.391	1.00	0.00
ATOM	1033	CZ	ARG	66	6.015	9.823	0.059	1.00	0.00
ATOM	1034	NH1	ARG	66	6.635	8.734	-0.310	1.00	0.00
ATOM	1035	HH11	ARG	66	6.379	8.279	-1.174	1.00	0.00
ATOM	1036	HH12	ARG	66	7.368	8.352	0.271	1.00	0.00
ATOM	1037	NH2	ARG	66	6.345	10.412	1.174	1.00	0.00
ATOM	1038	HH21	ARG	66	5.866	11.254	1.458	1.00	0.00
ATOM	1039	HH22	ARG	66	7.079	10.023	1.749	1.00	0.00
ATOM	1040	C	ARG	66	0.253	8.253	-0.076	1.00	0.00
ATOM	1041	O	ARG	66	0.053	7.977	1.108	1.00	0.00
ATOM	1042	N	MET	67	-0.596	8.966	-0.812	1.00	0.00
ATOM	1043	H	MET	67	-0.373	9.186	-1.772	1.00	0.00
ATOM	1044	CA	MET	67	-1.845	9.479	-0.256	1.00	0.00
ATOM	1045	HA	MET	67	-1.641	10.104	0.614	1.00	0.00
ATOM	1046	CB	MET	67	-2.571	10.325	-1.308	1.00	0.00
ATOM	1047	HB2	MET	67	-2.061	11.282	-1.418	1.00	0.00
ATOM	1048	HB3	MET	67	-2.565	9.799	-2.263	1.00	0.00
ATOM	1049	CG	MET	67	-4.019	10.565	-0.866	1.00	0.00

ATOM	1050	HG2 MET	67	-4.575	9.629	-0.910	1.00	0.00
ATOM	1051	HG3 MET	67	-4.032	10.946	0.155	1.00	0.00
ATOM	1052	SD MET	67	-4.801	11.776	-1.964	1.00	0.00
ATOM	1053	CE MET	67	-3.818	13.214	-1.468	1.00	0.00
ATOM	1054	HE1 MET	67	-2.764	13.021	-1.669	1.00	0.00
ATOM	1055	HE2 MET	67	-4.141	14.088	-2.033	1.00	0.00
ATOM	1056	HE3 MET	67	-3.956	13.399	-0.403	1.00	0.00
ATOM	1057	C MET	67	-2.758	8.348	0.210	1.00	0.00
ATOM	1058	O MET	67	-3.296	8.386	1.317	1.00	0.00
ATOM	1059	N MET	68	-2.945	7.358	-0.656	1.00	0.00
ATOM	1060	H MET	68	-2.510	7.389	-1.567	1.00	0.00
ATOM	1061	CA MET	68	-3.817	6.231	-0.345	1.00	0.00
ATOM	1062	HA MET	68	-4.815	6.583	-0.087	1.00	0.00
ATOM	1063	CB MET	68	-3.921	5.319	-1.571	1.00	0.00
ATOM	1064	HB2 MET	68	-4.626	5.752	-2.280	1.00	0.00
ATOM	1065	HB3 MET	68	-2.940	5.236	-2.039	1.00	0.00
ATOM	1066	CG MET	68	-4.407	3.926	-1.154	1.00	0.00
ATOM	1067	HG2 MET	68	-3.616	3.407	-0.611	1.00	0.00
ATOM	1068	HG3 MET	68	-5.285	4.018	-0.515	1.00	0.00
ATOM	1069	SD MET	68	-4.842	2.972	-2.627	1.00	0.00
ATOM	1070	CE MET	68	-3.165	2.776	-3.275	1.00	0.00
ATOM	1071	HE1 MET	68	-2.552	2.248	-2.544	1.00	0.00

ATOM	1072	HE2	MET	68	-3.197	2.204	-4.202	1.00	0.00
ATOM	1073	HE3	MET	68	-2.733	3.757	-3.469	1.00	0.00
ATOM	1074	C	MET	68	-3.314	5.443	0.861	1.00	0.00
ATOM	1075	O	MET	68	-4.090	5.122	1.759	1.00	0.00
ATOM	1076	N	MET	69	-2.021	5.130	0.882	1.00	0.00
ATOM	1077	H	MET	69	-1.409	5.391	0.122	1.00	0.00
ATOM	1078	CA	MET	69	-1.456	4.374	1.995	1.00	0.00
ATOM	1079	HA	MET	69	-1.853	3.359	1.998	1.00	0.00
ATOM	1080	CB	MET	69	0.069	4.303	1.859	1.00	0.00
ATOM	1081	HB2	MET	69	0.326	3.908	0.876	1.00	0.00
ATOM	1082	HB3	MET	69	0.489	5.303	1.969	1.00	0.00
ATOM	1083	CG	MET	69	0.643	3.387	2.943	1.00	0.00
ATOM	1084	HG2	MET	69	0.339	3.744	3.927	1.00	0.00
ATOM	1085	HG3	MET	69	0.278	2.370	2.798	1.00	0.00
ATOM	1086	SD	MET	69	2.450	3.390	2.841	1.00	0.00
ATOM	1087	CE	MET	69	2.755	2.159	4.132	1.00	0.00
ATOM	1088	HE1	MET	69	2.277	1.218	3.858	1.00	0.00
ATOM	1089	HE2	MET	69	3.829	2.002	4.240	1.00	0.00
ATOM	1090	HE3	MET	69	2.344	2.513	5.077	1.00	0.00
ATOM	1091	C	MET	69	-1.826	5.029	3.323	1.00	0.00
ATOM	1092	O	MET	69	-2.384	4.385	4.212	1.00	0.00
ATOM	1093	N	ARG	70	-1.516	6.316	3.441	1.00	0.00

ATOM	1094	H	ARG	70	-1.043	6.794	2.688	1.00	0.00
ATOM	1095	CA	ARG	70	-1.821	7.067	4.654	1.00	0.00
ATOM	1096	HA	ARG	70	-1.344	6.601	5.517	1.00	0.00
ATOM	1097	CB	ARG	70	-1.292	8.498	4.516	1.00	0.00
ATOM	1098	HB2	ARG	70	-1.731	8.965	3.635	1.00	0.00
ATOM	1099	HB3	ARG	70	-1.560	9.072	5.403	1.00	0.00
ATOM	1100	CG	ARG	70	0.233	8.466	4.371	1.00	0.00
ATOM	1101	HG2	ARG	70	0.671	7.993	5.250	1.00	0.00
ATOM	1102	HG3	ARG	70	0.501	7.895	3.482	1.00	0.00
ATOM	1103	CD	ARG	70	0.768	9.894	4.241	1.00	0.00
ATOM	1104	HD2	ARG	70	0.200	10.437	3.486	1.00	0.00
ATOM	1105	HD3	ARG	70	0.687	10.410	5.198	1.00	0.00
ATOM	1106	NE	ARG	70	2.172	9.869	3.841	1.00	0.00
ATOM	1107	HE	ARG	70	2.748	9.071	4.070	1.00	0.00
ATOM	1108	CZ	ARG	70	2.724	10.882	3.173	1.00	0.00
ATOM	1109	NH1	ARG	70	2.015	11.937	2.869	1.00	0.00
ATOM	1110	HH11	ARG	70	1.044	11.984	3.142	1.00	0.00
ATOM	1111	HH12	ARG	70	2.442	12.699	2.363	1.00	0.00
ATOM	1112	NH2	ARG	70	3.979	10.821	2.821	1.00	0.00
ATOM	1113	HH21	ARG	70	4.528	10.006	3.057	1.00	0.00
ATOM	1114	HH22	ARG	70	4.397	11.589	2.315	1.00	0.00
ATOM	1115	C	ARG	70	-3.327	7.102	4.914	1.00	0.00

ATOM	1116	O	ARG	70	-3.773	6.950	6.051	1.00	0.00
ATOM	1117	N	MET	71	-4.101	7.311	3.848	1.00	0.00
ATOM	1118	H	MET	71	-3.681	7.453	2.941	1.00	0.00
ATOM	1119	CA	MET	71	-5.553	7.376	3.956	1.00	0.00
ATOM	1120	HA	MET	71	-5.840	8.123	4.696	1.00	0.00
ATOM	1121	CB	MET	71	-6.159	7.767	2.605	1.00	0.00
ATOM	1122	HB2	MET	71	-5.643	8.646	2.218	1.00	0.00
ATOM	1123	HB3	MET	71	-6.043	6.940	1.904	1.00	0.00
ATOM	1124	CG	MET	71	-7.648	8.084	2.780	1.00	0.00
ATOM	1125	HG2	MET	71	-8.151	7.238	3.249	1.00	0.00
ATOM	1126	HG3	MET	71	-7.764	8.968	3.407	1.00	0.00
ATOM	1127	SD	MET	71	-8.396	8.400	1.161	1.00	0.00
ATOM	1128	CE	MET	71	-7.459	9.895	0.754	1.00	0.00
ATOM	1129	HE1	MET	71	-6.394	9.662	0.733	1.00	0.00
ATOM	1130	HE2	MET	71	-7.769	10.264	-0.223	1.00	0.00
ATOM	1131	HE3	MET	71	-7.648	10.659	1.508	1.00	0.00
ATOM	1132	C	MET	71	-6.124	6.040	4.411	1.00	0.00
ATOM	1133	O	MET	71	-7.072	5.996	5.195	1.00	0.00
ATOM	1134	N	MET	72	-5.551	4.954	3.904	1.00	0.00
ATOM	1135	H	MET	72	-4.789	5.030	3.245	1.00	0.00
ATOM	1136	CA	MET	72	-6.025	3.625	4.260	1.00	0.00
ATOM	1137	HA	MET	72	-7.060	3.500	3.943	1.00	0.00



ATOM	1138	CB	MET	72	-5.169	2.559	3.568	1.00	0.00
ATOM	1139	HB2	MET	72	-4.118	2.840	3.639	1.00	0.00
ATOM	1140	HB3	MET	72	-5.322	1.599	4.062	1.00	0.00
ATOM	1141	CG	MET	72	-5.568	2.444	2.094	1.00	0.00
ATOM	1142	HG2	MET	72	-5.539	3.428	1.627	1.00	0.00
ATOM	1143	HG3	MET	72	-4.878	1.776	1.577	1.00	0.00
ATOM	1144	SD	MET	72	-7.247	1.776	1.972	1.00	0.00
ATOM	1145	CE	MET	72	-6.903	0.152	2.697	1.00	0.00
ATOM	1146	HE1	MET	72	-6.527	0.279	3.713	1.00	0.00
ATOM	1147	HE2	MET	72	-7.819	-0.438	2.720	1.00	0.00
ATOM	1148	HE3	MET	72	-6.154	-0.364	2.096	1.00	0.00
ATOM	1149	C	MET	72	-5.978	3.417	5.768	1.00	0.00
ATOM	1150	O	MET	72	-6.993	3.101	6.392	1.00	0.00
ATOM	1151	N	GLN	73	-4.796	3.603	6.346	1.00	0.00
ATOM	1152	H	GLN	73	-3.986	3.839	5.790	1.00	0.00
ATOM	1153	CA	GLN	73	-4.623	3.442	7.784	1.00	0.00
ATOM	1154	HA	GLN	73	-4.912	2.434	8.084	1.00	0.00
ATOM	1155	CB	GLN	73	-3.157	3.664	8.165	1.00	0.00
ATOM	1156	HB2	GLN	73	-2.863	4.678	7.896	1.00	0.00
ATOM	1157	HB3	GLN	73	-3.038	3.525	9.240	1.00	0.00
ATOM	1158	CG	GLN	73	-2.271	2.662	7.420	1.00	0.00
ATOM	1159	HG2	GLN	73	-2.256	2.879	6.352	1.00	0.00

ATOM	1160	HG3	GLN	73	-1.256	2.714	7.815	1.00	0.00
ATOM	1161	CD	GLN	73	-2.799	1.248	7.622	1.00	0.00
ATOM	1162	OE1	GLN	73	-2.763	0.721	8.734	1.00	0.00
ATOM	1163	NE2	GLN	73	-3.306	0.607	6.608	1.00	0.00
ATOM	1164	HE21	GLN	73	-3.658	-0.332	6.733	1.00	0.00
ATOM	1165	HE22	GLN	73	-3.344	1.051	5.702	1.00	0.00
ATOM	1166	C	GLN	73	-5.508	4.424	8.545	1.00	0.00
ATOM	1167	O	GLN	73	-6.103	4.080	9.562	1.00	0.00
ATOM	1168	N	GLN	74	-5.580	5.651	8.042	1.00	0.00
ATOM	1169	H	GLN	74	-5.045	5.899	7.222	1.00	0.00
ATOM	1170	CA	GLN	74	-6.385	6.685	8.681	1.00	0.00
ATOM	1171	HA	GLN	74	-6.075	6.816	9.718	1.00	0.00
ATOM	1172	CB	GLN	74	-6.198	8.014	7.942	1.00	0.00
ATOM	1173	HB2	GLN	74	-5.261	8.475	8.255	1.00	0.00
ATOM	1174	HB3	GLN	74	-6.171	7.831	6.868	1.00	0.00
ATOM	1175	CG	GLN	74	-7.362	8.951	8.271	1.00	0.00
ATOM	1176	HG2	GLN	74	-7.904	8.588	9.145	1.00	0.00
ATOM	1177	HG3	GLN	74	-6.986	9.955	8.469	1.00	0.00
ATOM	1178	CD	GLN	74	-8.325	9.015	7.092	1.00	0.00
ATOM	1179	OE1	GLN	74	-8.355	8.029	6.241	1.00	0.00
ATOM	1180	NE2	GLN	74	-9.070	9.984	6.946	1.00	0.00
ATOM	1181	HE21	GLN	74	-9.704	10.015	6.161	1.00	0.00

ATOM	1182	HE22	GLN	74	-9.043	10.742	7.613	1.00	0.00
ATOM	1183	C	GLN	74	-7.865	6.307	8.717	1.00	0.00
ATOM	1184	O	GLN	74	-8.535	6.498	9.733	1.00	0.00
ATOM	1185	N	LYS	75	-8.370	5.785	7.606	1.00	0.00
ATOM	1186	H	LYS	75	-7.791	5.656	6.788	1.00	0.00
ATOM	1187	CA	LYS	75	-9.777	5.407	7.525	1.00	0.00
ATOM	1188	HA	LYS	75	-10.411	6.278	7.690	1.00	0.00
ATOM	1189	CB	LYS	75	-10.077	4.838	6.135	1.00	0.00
ATOM	1190	HB2	LYS	75	-9.745	5.547	5.377	1.00	0.00
ATOM	1191	HB3	LYS	75	-9.543	3.896	6.009	1.00	0.00
ATOM	1192	CG	LYS	75	-11.584	4.596	5.984	1.00	0.00
ATOM	1193	HG2	LYS	75	-11.760	3.939	5.132	1.00	0.00
ATOM	1194	HG3	LYS	75	-11.966	4.125	6.890	1.00	0.00
ATOM	1195	CD	LYS	75	-12.305	5.929	5.758	1.00	0.00
ATOM	1196	HD2	LYS	75	-12.187	6.559	6.640	1.00	0.00
ATOM	1197	HD3	LYS	75	-11.875	6.432	4.892	1.00	0.00
ATOM	1198	CE	LYS	75	-13.793	5.671	5.511	1.00	0.00
ATOM	1199	HE2	LYS	75	-14.182	5.017	6.291	1.00	0.00
ATOM	1200	HE3	LYS	75	-14.333	6.617	5.528	1.00	0.00
ATOM	1201	NZ	LYS	75	-13.972	5.020	4.182	1.00	0.00
ATOM	1202	HZ1	LYS	75	-13.471	4.142	4.167	1.00	0.00
ATOM	1203	HZ2	LYS	75	-14.954	4.850	4.020	1.00	0.00

ATOM	1204	HZ3	LYS	75	-13.611	5.626	3.459	1.00	0.00
ATOM	1205	C	LYS	75	-10.125	4.370	8.589	1.00	0.00
ATOM	1206	O	LYS	75	-11.180	4.444	9.221	1.00	0.00
ATOM	1207	N	GLU	76	-9.231	3.409	8.776	1.00	0.00
ATOM	1208	H	GLU	76	-8.389	3.376	8.218	1.00	0.00
ATOM	1209	CA	GLU	76	-9.448	2.354	9.765	1.00	0.00
ATOM	1210	HA	GLU	76	-9.762	2.788	10.714	1.00	0.00
ATOM	1211	CB	GLU	76	-10.545	1.398	9.276	1.00	0.00
ATOM	1212	HB2	GLU	76	-11.416	1.976	8.969	1.00	0.00
ATOM	1213	HB3	GLU	76	-10.172	0.825	8.427	1.00	0.00
ATOM	1214	CG	GLU	76	-10.941	0.437	10.407	1.00	0.00
ATOM	1215	HG2	GLU	76	-11.605	-0.328	10.004	1.00	0.00
ATOM	1216	HG3	GLU	76	-10.041	-0.035	10.802	1.00	0.00
ATOM	1217	CD	GLU	76	-11.655	1.191	11.530	1.00	0.00
ATOM	1218	OE1	GLU	76	-12.273	2.207	11.247	1.00	0.00
ATOM	1219	OE2	GLU	76	-11.573	0.741	12.661	1.00	0.00
ATOM	1220	C	GLU	76	-8.157	1.578	10.017	1.00	0.00
ATOM	1221	O	GLU	76	-8.000	0.451	9.543	1.00	0.00
ATOM	1222	N	MET	77	-7.232	2.187	10.752	1.00	0.00
ATOM	1223	H	MET	77	-7.387	3.122	11.100	1.00	0.00
ATOM	1224	CA	MET	77	-5.956	1.541	11.050	1.00	0.00
ATOM	1225	HA	MET	77	-5.404	1.360	10.128	1.00	0.00

ATOM	1226	CB	MET	77	-5.111	2.443	11.958	1.00	0.00
ATOM	1227	HB2	MET	77	-5.045	3.438	11.519	1.00	0.00
ATOM	1228	HB3	MET	77	-5.580	2.510	12.940	1.00	0.00
ATOM	1229	CG	MET	77	-3.704	1.856	12.105	1.00	0.00
ATOM	1230	HG2	MET	77	-3.767	0.837	12.487	1.00	0.00
ATOM	1231	HG3	MET	77	-3.204	1.849	11.137	1.00	0.00
ATOM	1232	SD	MET	77	-2.747	2.866	13.261	1.00	0.00
ATOM	1233	CE	MET	77	-1.178	1.980	13.095	1.00	0.00
ATOM	1234	HE1	MET	77	-0.845	2.021	12.058	1.00	0.00
ATOM	1235	HE2	MET	77	-0.428	2.444	13.736	1.00	0.00
ATOM	1236	HE3	MET	77	-1.314	0.940	13.392	1.00	0.00
ATOM	1237	C	MET	77	-6.174	0.188	11.727	1.00	0.00
ATOM	1238	O	MET	77	-6.287	0.112	12.952	1.00	0.00
ATOM	1239	N	GLN	78	-6.218	-0.876	10.928	1.00	0.00
ATOM	1240	H	GLN	78	-6.137	-0.771	9.927	1.00	0.00
ATOM	1241	CA	GLN	78	-6.403	-2.219	11.470	1.00	0.00
ATOM	1242	HA	GLN	78	-7.389	-2.305	11.927	1.00	0.00
ATOM	1243	CB	GLN	78	-6.290	-3.260	10.349	1.00	0.00
ATOM	1244	HB2	GLN	78	-5.866	-2.791	9.461	1.00	0.00
ATOM	1245	HB3	GLN	78	-5.641	-4.074	10.675	1.00	0.00
ATOM	1246	CG	GLN	78	-7.679	-3.816	10.019	1.00	0.00
ATOM	1247	HG2	GLN	78	-8.126	-4.256	10.911	1.00	0.00

ATOM	1248	HG3	GLN	78	-8.321	-3.018	9.648	1.00	0.00
ATOM	1249	CD	GLN	78	-7.570	-4.895	8.944	1.00	0.00
ATOM	1250	OE1	GLN	78	-6.758	-5.813	9.063	1.00	0.00
ATOM	1251	NE2	GLN	78	-8.345	-4.839	7.895	1.00	0.00
ATOM	1252	HE21	GLN	78	-8.276	-5.551	7.182	1.00	0.00
ATOM	1253	HE22	GLN	78	-9.009	-4.085	7.802	1.00	0.00
ATOM	1254	C	GLN	78	-5.344	-2.491	12.539	1.00	0.00
ATOM	1255	O	GLN	78	-4.165	-2.201	12.328	1.00	0.00
ATOM	1256	N	PRO	79	-5.724	-3.031	13.671	1.00	0.00
ATOM	1257	CD	PRO	79	-7.087	-3.426	14.045	1.00	0.00
ATOM	1258	HD2	PRO	79	-7.365	-4.323	13.491	1.00	0.00
ATOM	1259	HD3	PRO	79	-7.775	-2.618	13.798	1.00	0.00
ATOM	1260	CG	PRO	79	-6.993	-3.673	15.559	1.00	0.00
ATOM	1261	HG2	PRO	79	-7.106	-4.740	15.752	1.00	0.00
ATOM	1262	HG3	PRO	79	-7.793	-3.127	16.058	1.00	0.00
ATOM	1263	CB	PRO	79	-5.655	-3.178	16.000	1.00	0.00
ATOM	1264	HB2	PRO	79	-5.297	-3.838	16.791	1.00	0.00
ATOM	1265	HB3	PRO	79	-5.633	-2.147	16.351	1.00	0.00
ATOM	1266	CA	PRO	79	-4.776	-3.325	14.767	1.00	0.00
ATOM	1267	HA	PRO	79	-3.955	-2.610	14.716	1.00	0.00
ATOM	1268	C	PRO	79	-4.223	-4.738	14.662	1.00	0.00
ATOM	1269	O	PRO	79	-4.943	-5.720	14.851	1.00	0.00

ATOM	1270	N	ARG	80	-2.941	-4.820	14.372	1.00	0.00
ATOM	1271	H	ARG	80	-2.406	-3.979	14.208	1.00	0.00
ATOM	1272	CA	ARG	80	-2.265	-6.102	14.250	1.00	0.00
ATOM	1273	HA	ARG	80	-2.388	-6.673	15.171	1.00	0.00
ATOM	1274	CB	ARG	80	-2.852	-6.910	13.091	1.00	0.00
ATOM	1275	HB2	ARG	80	-3.556	-6.292	12.535	1.00	0.00
ATOM	1276	HB3	ARG	80	-2.049	-7.233	12.428	1.00	0.00
ATOM	1277	CG	ARG	80	-3.579	-8.138	13.646	1.00	0.00
ATOM	1278	HG2	ARG	80	-2.865	-8.950	13.783	1.00	0.00
ATOM	1279	HG3	ARG	80	-4.032	-7.888	14.606	1.00	0.00
ATOM	1280	CD	ARG	80	-4.668	-8.577	12.668	1.00	0.00
ATOM	1281	HD2	ARG	80	-4.511	-8.101	11.700	1.00	0.00
ATOM	1282	HD3	ARG	80	-4.643	-9.660	12.548	1.00	0.00
ATOM	1283	NE	ARG	80	-5.985	-8.191	13.172	1.00	0.00
ATOM	1284	HE	ARG	80	-6.453	-8.778	13.849	1.00	0.00
ATOM	1285	CZ	ARG	80	-6.596	-7.079	12.763	1.00	0.00
ATOM	1286	NH1	ARG	80	-6.020	-6.287	11.899	1.00	0.00
ATOM	1287	HH11	ARG	80	-5.105	-6.519	11.538	1.00	0.00
ATOM	1288	HH12	ARG	80	-6.491	-5.447	11.596	1.00	0.00
ATOM	1289	NH2	ARG	80	-7.776	-6.780	13.230	1.00	0.00
ATOM	1290	HH21	ARG	80	-8.221	-7.392	13.899	1.00	0.00
ATOM	1291	HH22	ARG	80	-8.239	-5.938	12.921	1.00	0.00

ATOM	1292	C	ARG	80	-0.775	-5.883	14.024	1.00	0.00
ATOM	1293	O	ARG	80	-0.386	-5.135	13.126	1.00	0.00
ATOM	1294	N	GLY	81	0.057	-6.526	14.836	1.00	0.00
ATOM	1295	H	GLY	81	-0.284	-7.136	15.566	1.00	0.00
ATOM	1296	CA	GLY	81	1.496	-6.364	14.690	1.00	0.00
ATOM	1297	HA2	GLY	81	1.699	-5.368	14.298	1.00	0.00
ATOM	1298	HA3	GLY	81	1.962	-6.470	15.670	1.00	0.00
ATOM	1299	C	GLY	81	2.092	-7.402	13.742	1.00	0.00
ATOM	1300	O	GLY	81	2.470	-7.079	12.619	1.00	0.00
ATOM	1301	N	GLU	82	2.186	-8.642	14.212	1.00	0.00
ATOM	1302	H	GLU	82	1.886	-8.849	15.154	1.00	0.00
ATOM	1303	CA	GLU	82	2.761	-9.726	13.414	1.00	0.00
ATOM	1304	HA	GLU	82	3.768	-9.462	13.090	1.00	0.00
ATOM	1305	CB	GLU	82	2.837	-11.003	14.257	1.00	0.00
ATOM	1306	HB2	GLU	82	1.853	-11.221	14.672	1.00	0.00
ATOM	1307	HB3	GLU	82	3.157	-11.833	13.627	1.00	0.00
ATOM	1308	CG	GLU	82	3.844	-10.812	15.401	1.00	0.00
ATOM	1309	HG2	GLU	82	4.136	-11.792	15.779	1.00	0.00
ATOM	1310	HG3	GLU	82	4.723	-10.297	15.013	1.00	0.00
ATOM	1311	CD	GLU	82	3.230	-9.989	16.537	1.00	0.00
ATOM	1312	OE1	GLU	82	2.017	-10.010	16.682	1.00	0.00
ATOM	1313	OE2	GLU	82	3.986	-9.347	17.248	1.00	0.00



ATOM	1314	C	GLU	82	1.970	-10.014	12.136	1.00	0.00
ATOM	1315	O	GLU	82	2.558	-10.216	11.073	1.00	0.00
ATOM	1316	N	GLN	83	0.644	-10.073	12.246	1.00	0.00
ATOM	1317	H	GLN	83	0.195	-9.930	13.139	1.00	0.00
ATOM	1318	CA	GLN	83	-0.196	-10.386	11.089	1.00	0.00
ATOM	1319	HA	GLN	83	0.073	-11.361	10.681	1.00	0.00
ATOM	1320	CB	GLN	83	-1.668	-10.422	11.516	1.00	0.00
ATOM	1321	HB2	GLN	83	-1.778	-11.088	12.372	1.00	0.00
ATOM	1322	HB3	GLN	83	-1.987	-9.418	11.795	1.00	0.00
ATOM	1323	CG	GLN	83	-2.534	-10.930	10.359	1.00	0.00
ATOM	1324	HG2	GLN	83	-3.587	-10.751	10.575	1.00	0.00
ATOM	1325	HG3	GLN	83	-2.260	-10.417	9.437	1.00	0.00
ATOM	1326	CD	GLN	83	-2.324	-12.429	10.164	1.00	0.00
ATOM	1327	OE1	GLN	83	-2.719	-13.227	11.013	1.00	0.00
ATOM	1328	NE2	GLN	83	-1.723	-12.860	9.089	1.00	0.00
ATOM	1329	HE21	GLN	83	-1.582	-13.852	8.956	1.00	0.00
ATOM	1330	HE22	GLN	83	-1.401	-12.201	8.395	1.00	0.00
ATOM	1331	C	GLN	83	-0.018	-9.373	9.955	1.00	0.00
ATOM	1332	O	GLN	83	0.455	-9.719	8.873	1.00	0.00
ATOM	1333	N	MET	84	-0.410	-8.128	10.210	1.00	0.00
ATOM	1334	H	MET	84	-0.852	-7.906	11.091	1.00	0.00
ATOM	1335	CA	MET	84	-0.300	-7.074	9.204	1.00	0.00

ATOM	1336	HA	MET	84	-0.794	-7.386	8.284	1.00	0.00
ATOM	1337	CB	MET	84	-0.965	-5.792	9.705	1.00	0.00
ATOM	1338	HB2	MET	84	-0.704	-5.630	10.751	1.00	0.00
ATOM	1339	HB3	MET	84	-0.622	-4.946	9.110	1.00	0.00
ATOM	1340	CG	MET	84	-2.489	-5.926	9.573	1.00	0.00
ATOM	1341	HG2	MET	84	-2.756	-6.092	8.530	1.00	0.00
ATOM	1342	HG3	MET	84	-2.839	-6.765	10.175	1.00	0.00
ATOM	1343	SD	MET	84	-3.279	-4.405	10.155	1.00	0.00
ATOM	1344	CE	MET	84	-2.799	-3.343	8.770	1.00	0.00
ATOM	1345	HE1	MET	84	-3.204	-3.749	7.843	1.00	0.00
ATOM	1346	HE2	MET	84	-3.191	-2.339	8.929	1.00	0.00
ATOM	1347	HE3	MET	84	-1.712	-3.302	8.703	1.00	0.00
ATOM	1348	C	MET	84	1.149	-6.811	8.796	1.00	0.00
ATOM	1349	O	MET	84	1.407	-6.414	7.661	1.00	0.00
ATOM	1350	N	ARG	85	2.096	-7.026	9.710	1.00	0.00
ATOM	1351	H	ARG	85	1.868	-7.332	10.645	1.00	0.00
ATOM	1352	CA	ARG	85	3.503	-6.794	9.380	1.00	0.00
ATOM	1353	HA	ARG	85	3.678	-5.729	9.231	1.00	0.00
ATOM	1354	CB	ARG	85	4.406	-7.283	10.518	1.00	0.00
ATOM	1355	HB2	ARG	85	4.175	-6.726	11.426	1.00	0.00
ATOM	1356	HB3	ARG	85	4.227	-8.345	10.689	1.00	0.00
ATOM	1357	CG	ARG	85	5.877	-7.067	10.148	1.00	0.00

ATOM	1358	HG2 ARG	85	6.132	-7.685	9.287	1.00	0.00
ATOM	1359	HG3 ARG	85	6.042	-6.018	9.904	1.00	0.00
ATOM	1360	CD ARG	85	6.760	-7.459	11.335	1.00	0.00
ATOM	1361	HD2 ARG	85	7.799	-7.204	11.126	1.00	0.00
ATOM	1362	HD3 ARG	85	6.431	-6.935	12.233	1.00	0.00
ATOM	1363	NE ARG	85	6.671	-8.898	11.574	1.00	0.00
ATOM	1364	HE ARG	85	6.684	-9.538	10.793	1.00	0.00
ATOM	1365	CZ ARG	85	6.568	-9.400	12.805	1.00	0.00
ATOM	1366	NH1 ARG	85	6.557	-8.610	13.846	1.00	0.00
ATOM	1367	HH11 ARG	85	6.627	-7.611	13.719	1.00	0.00
ATOM	1368	HH12 ARG	85	6.479	-9.003	14.774	1.00	0.00
ATOM	1369	NH2 ARG	85	6.482	-10.691	12.972	1.00	0.00
ATOM	1370	HH21 ARG	85	6.494	-11.303	12.169	1.00	0.00
ATOM	1371	HH22 ARG	85	6.404	-11.073	13.904	1.00	0.00
ATOM	1372	C ARG	85	3.859	-7.524	8.088	1.00	0.00
ATOM	1373	O ARG	85	4.483	-6.953	7.194	1.00	0.00
ATOM	1374	N ARG	86	3.432	-8.780	7.990	1.00	0.00
ATOM	1375	H ARG	86	2.939	-9.215	8.757	1.00	0.00
ATOM	1376	CA ARG	86	3.683	-9.572	6.792	1.00	0.00
ATOM	1377	HA ARG	86	4.755	-9.641	6.606	1.00	0.00
ATOM	1378	CB ARG	86	3.127	-10.986	6.979	1.00	0.00
ATOM	1379	HB2 ARG	86	2.063	-10.932	7.207	1.00	0.00

ATOM	1380	HB3	ARG	86	3.274	-11.559	6.064	1.00	0.00
ATOM	1381	CG	ARG	86	3.862	-11.673	8.134	1.00	0.00
ATOM	1382	HG2	ARG	86	4.931	-11.691	7.921	1.00	0.00
ATOM	1383	HG3	ARG	86	3.685	-11.118	9.055	1.00	0.00
ATOM	1384	CD	ARG	86	3.351	-13.105	8.297	1.00	0.00
ATOM	1385	HD2	ARG	86	2.263	-13.107	8.351	1.00	0.00
ATOM	1386	HD3	ARG	86	3.674	-13.713	7.452	1.00	0.00
ATOM	1387	NE	ARG	86	3.881	-13.692	9.524	1.00	0.00
ATOM	1388	HE	ARG	86	4.609	-13.216	10.038	1.00	0.00
ATOM	1389	CZ	ARG	86	3.425	-14.851	9.994	1.00	0.00
ATOM	1390	NH1	ARG	86	2.488	-15.498	9.354	1.00	0.00
ATOM	1391	HH11	ARG	86	2.109	-15.117	8.499	1.00	0.00
ATOM	1392	HH12	ARG	86	2.148	-16.377	9.717	1.00	0.00
ATOM	1393	NH2	ARG	86	3.918	-15.344	11.096	1.00	0.00
ATOM	1394	HH21	ARG	86	4.645	-14.844	11.589	1.00	0.00
ATOM	1395	HH22	ARG	86	3.572	-16.224	11.452	1.00	0.00
ATOM	1396	C	ARG	86	3.027	-8.909	5.582	1.00	0.00
ATOM	1397	O	ARG	86	3.581	-8.901	4.482	1.00	0.00
ATOM	1398	N	MET	87	1.835	-8.353	5.810	1.00	0.00
ATOM	1399	H	MET	87	1.427	-8.405	6.733	1.00	0.00
ATOM	1400	CA	MET	87	1.080	-7.680	4.755	1.00	0.00
ATOM	1401	HA	MET	87	0.804	-8.395	3.980	1.00	0.00

ATOM	1402	CB	MET	87	-0.200	-7.068	5.335	1.00	0.00
ATOM	1403	HB2	MET	87	-0.723	-7.820	5.926	1.00	0.00
ATOM	1404	HB3	MET	87	0.061	-6.223	5.972	1.00	0.00
ATOM	1405	CG	MET	87	-1.108	-6.590	4.197	1.00	0.00
ATOM	1406	HG2	MET	87	-0.500	-6.178	3.392	1.00	0.00
ATOM	1407	HG3	MET	87	-1.692	-7.429	3.818	1.00	0.00
ATOM	1408	SD	MET	87	-2.233	-5.309	4.810	1.00	0.00
ATOM	1409	CE	MET	87	-3.268	-6.364	5.853	1.00	0.00
ATOM	1410	HE1	MET	87	-2.651	-6.837	6.618	1.00	0.00
ATOM	1411	HE2	MET	87	-4.038	-5.759	6.332	1.00	0.00
ATOM	1412	HE3	MET	87	-3.738	-7.133	5.240	1.00	0.00
ATOM	1413	C	MET	87	1.905	-6.575	4.100	1.00	0.00
ATOM	1414	O	MET	87	1.716	-6.272	2.924	1.00	0.00
ATOM	1415	N	MET	88	2.803	-5.959	4.869	1.00	0.00
ATOM	1416	H	MET	88	2.926	-6.228	5.835	1.00	0.00
ATOM	1417	CA	MET	88	3.623	-4.871	4.344	1.00	0.00
ATOM	1418	HA	MET	88	3.017	-3.979	4.190	1.00	0.00
ATOM	1419	CB	MET	88	4.729	-4.543	5.347	1.00	0.00
ATOM	1420	HB2	MET	88	5.281	-5.452	5.588	1.00	0.00
ATOM	1421	HB3	MET	88	5.409	-3.812	4.910	1.00	0.00
ATOM	1422	CG	MET	88	4.112	-3.966	6.627	1.00	0.00
ATOM	1423	HG2	MET	88	3.812	-2.932	6.457	1.00	0.00

ATOM	1424	HG3 MET	88	3.240	-4.555	6.913	1.00	0.00
ATOM	1425	SD MET	88	5.331	-4.020	7.965	1.00	0.00
ATOM	1426	CE MET	88	6.760	-3.470	7.003	1.00	0.00
ATOM	1427	HE1 MET	88	6.565	-2.478	6.596	1.00	0.00
ATOM	1428	HE2 MET	88	7.639	-3.431	7.647	1.00	0.00
ATOM	1429	HE3 MET	88	6.940	-4.169	6.186	1.00	0.00
ATOM	1430	C MET	88	4.249	-5.258	3.009	1.00	0.00
ATOM	1431	O MET	88	4.110	-4.538	2.020	1.00	0.00
ATOM	1432	N ARG	89	4.920	-6.405	2.980	1.00	0.00
ATOM	1433	H ARG	89	5.031	-6.961	3.816	1.00	0.00
ATOM	1434	CA ARG	89	5.540	-6.878	1.749	1.00	0.00
ATOM	1435	HA ARG	89	6.264	-6.146	1.390	1.00	0.00
ATOM	1436	CB ARG	89	6.268	-8.202	2.003	1.00	0.00
ATOM	1437	HB2 ARG	89	5.563	-8.933	2.399	1.00	0.00
ATOM	1438	HB3 ARG	89	6.686	-8.571	1.067	1.00	0.00
ATOM	1439	CG ARG	89	7.399	-7.983	3.016	1.00	0.00
ATOM	1440	HG2 ARG	89	7.007	-7.461	3.889	1.00	0.00
ATOM	1441	HG3 ARG	89	7.803	-8.948	3.322	1.00	0.00
ATOM	1442	CD ARG	89	8.510	-7.144	2.376	1.00	0.00
ATOM	1443	HD2 ARG	89	8.861	-7.629	1.465	1.00	0.00
ATOM	1444	HD3 ARG	89	8.131	-6.151	2.136	1.00	0.00
ATOM	1445	NE ARG	89	9.635	-7.005	3.295	1.00	0.00

ATOM	1446	HE	ARG	89	10.445	-7.601	3.197	1.00	0.00
ATOM	1447	CZ	ARG	89	9.626	-6.101	4.273	1.00	0.00
ATOM	1448	NH1	ARG	89	8.589	-5.324	4.440	1.00	0.00
ATOM	1449	HH11	ARG	89	7.793	-5.411	3.825	1.00	0.00
ATOM	1450	HH12	ARG	89	8.589	-4.641	5.184	1.00	0.00
ATOM	1451	NH2	ARG	89	10.654	-5.993	5.067	1.00	0.00
ATOM	1452	HH21	ARG	89	11.454	-6.596	4.938	1.00	0.00
ATOM	1453	HH22	ARG	89	10.646	-5.307	5.809	1.00	0.00
ATOM	1454	C	ARG	89	4.479	-7.065	0.667	1.00	0.00
ATOM	1455	O	ARG	89	4.671	-6.671	-0.484	1.00	0.00
ATOM	1456	N	LEU	90	3.353	-7.660	1.058	1.00	0.00
ATOM	1457	H	LEU	90	3.255	-7.976	2.012	1.00	0.00
ATOM	1458	CA	LEU	90	2.249	-7.893	0.135	1.00	0.00
ATOM	1459	HA	LEU	90	2.583	-8.494	-0.711	1.00	0.00
ATOM	1460	CB	LEU	90	1.130	-8.649	0.861	1.00	0.00
ATOM	1461	HB2	LEU	90	1.547	-9.526	1.357	1.00	0.00
ATOM	1462	HB3	LEU	90	0.685	-7.989	1.606	1.00	0.00
ATOM	1463	CG	LEU	90	0.054	-9.090	-0.140	1.00	0.00
ATOM	1464	HG	LEU	90	0.512	-9.264	-1.113	1.00	0.00
ATOM	1465	CD1	LEU	90	-0.602	-10.383	0.353	1.00	0.00
ATOM	1466	HD11	LEU	90	-1.060	-10.210	1.327	1.00	0.00
ATOM	1467	HD12	LEU	90	-1.366	-10.697	-0.357	1.00	0.00

ATOM	1468	HD13	LEU	90	0.154	-11.164	0.442	1.00	0.00
ATOM	1469	CD2	LEU	90	-1.016	-7.998	-0.259	1.00	0.00
ATOM	1470	HD21	LEU	90	-0.555	-7.074	-0.606	1.00	0.00
ATOM	1471	HD22	LEU	90	-1.779	-8.313	-0.970	1.00	0.00
ATOM	1472	HD23	LEU	90	-1.475	-7.831	0.716	1.00	0.00
ATOM	1473	C	LEU	90	1.714	-6.570	-0.403	1.00	0.00
ATOM	1474	O	LEU	90	1.389	-6.454	-1.585	1.00	0.00
ATOM	1475	N	ALA	91	1.619	-5.579	0.480	1.00	0.00
ATOM	1476	H	ALA	91	1.880	-5.729	1.445	1.00	0.00
ATOM	1477	CA	ALA	91	1.114	-4.267	0.096	1.00	0.00
ATOM	1478	HA	ALA	91	0.074	-4.342	-0.221	1.00	0.00
ATOM	1479	CB	ALA	91	1.195	-3.307	1.286	1.00	0.00
ATOM	1480	HB1	ALA	91	2.232	-3.215	1.610	1.00	0.00
ATOM	1481	HB2	ALA	91	0.820	-2.328	0.990	1.00	0.00
ATOM	1482	HB3	ALA	91	0.592	-3.694	2.108	1.00	0.00
ATOM	1483	C	ALA	91	1.916	-3.708	-1.071	1.00	0.00
ATOM	1484	O	ALA	91	1.349	-3.305	-2.080	1.00	0.00
ATOM	1485	N	GLU	92	3.238	-3.696	-0.923	1.00	0.00
ATOM	1486	H	GLU	92	3.651	-4.017	-0.059	1.00	0.00
ATOM	1487	CA	GLU	92	4.126	-3.196	-1.972	1.00	0.00
ATOM	1488	HA	GLU	92	3.891	-2.157	-2.201	1.00	0.00
ATOM	1489	CB	GLU	92	5.580	-3.275	-1.498	1.00	0.00



ATOM	1490	HB2	GLU	92	5.673	-2.773	-0.535	1.00	0.00
ATOM	1491	HB3	GLU	92	5.869	-4.321	-1.391	1.00	0.00
ATOM	1492	CG	GLU	92	6.499	-2.593	-2.521	1.00	0.00
ATOM	1493	HG2	GLU	92	6.347	-3.056	-3.496	1.00	0.00
ATOM	1494	HG3	GLU	92	6.240	-1.536	-2.576	1.00	0.00
ATOM	1495	CD	GLU	92	7.966	-2.737	-2.112	1.00	0.00
ATOM	1496	OE1	GLU	92	8.229	-3.373	-1.101	1.00	0.00
ATOM	1497	OE2	GLU	92	8.808	-2.209	-2.818	1.00	0.00
ATOM	1498	C	GLU	92	3.958	-3.998	-3.262	1.00	0.00
ATOM	1499	O	GLU	92	4.151	-3.471	-4.357	1.00	0.00
ATOM	1500	N	ASN	93	3.614	-5.276	-3.123	1.00	0.00
ATOM	1501	H	ASN	93	3.489	-5.675	-2.203	1.00	0.00
ATOM	1502	CA	ASN	93	3.442	-6.147	-4.286	1.00	0.00
ATOM	1503	HA	ASN	93	4.304	-6.061	-4.948	1.00	0.00
ATOM	1504	CB	ASN	93	3.315	-7.606	-3.834	1.00	0.00
ATOM	1505	HB2	ASN	93	2.493	-7.704	-3.125	1.00	0.00
ATOM	1506	HB3	ASN	93	3.130	-8.248	-4.695	1.00	0.00
ATOM	1507	CG	ASN	93	4.604	-8.064	-3.152	1.00	0.00
ATOM	1508	OD1	ASN	93	5.619	-7.248	-3.064	1.00	0.00
ATOM	1509	ND2	ASN	93	4.686	-9.201	-2.687	1.00	0.00
ATOM	1510	HD21	ASN	93	5.540	-9.499	-2.237	1.00	0.00
ATOM	1511	HD22	ASN	93	3.899	-9.830	-2.757	1.00	0.00

ATOM	1512	C	ASN	93	2.207	-5.757	-5.099	1.00	0.00
ATOM	1513	O	ASN	93	2.208	-5.870	-6.325	1.00	0.00
ATOM	1514	N	ILE	94	1.155	-5.305	-4.416	1.00	0.00
ATOM	1515	H	ILE	94	1.177	-5.263	-3.407	1.00	0.00
ATOM	1516	CA	ILE	94	-0.077	-4.913	-5.100	1.00	0.00
ATOM	1517	HA	ILE	94	-0.526	-5.792	-5.563	1.00	0.00
ATOM	1518	CB	ILE	94	-1.065	-4.303	-4.093	1.00	0.00
ATOM	1519	HB	ILE	94	-0.517	-3.675	-3.390	1.00	0.00
ATOM	1520	CG2	ILE	94	-2.113	-3.456	-4.826	1.00	0.00
ATOM	1521	HG21	ILE	94	-2.661	-4.084	-5.528	1.00	0.00
ATOM	1522	HG22	ILE	94	-2.807	-3.030	-4.102	1.00	0.00
ATOM	1523	HG23	ILE	94	-1.616	-2.653	-5.369	1.00	0.00
ATOM	1524	CG1	ILE	94	-1.769	-5.434	-3.331	1.00	0.00
ATOM	1525	HG12	ILE	94	-2.557	-5.855	-3.955	1.00	0.00
ATOM	1526	HG13	ILE	94	-1.044	-6.212	-3.087	1.00	0.00
ATOM	1527	CD1	ILE	94	-2.381	-4.884	-2.039	1.00	0.00
ATOM	1528	HD11	ILE	94	-3.105	-4.107	-2.281	1.00	0.00
ATOM	1529	HD12	ILE	94	-2.880	-5.690	-1.501	1.00	0.00
ATOM	1530	HD13	ILE	94	-1.593	-4.464	-1.413	1.00	0.00
ATOM	1531	C	ILE	94	0.219	-3.922	-6.234	1.00	0.00
ATOM	1532	O	ILE	94	-0.134	-4.172	-7.386	1.00	0.00
ATOM	1533	N	PRO	95	0.859	-2.817	-5.938	1.00	0.00

ATOM	1534	CD	PRO	95	1.315	-2.421	-4.597	1.00	0.00
ATOM	1535	HD2	PRO	95	1.886	-3.240	-4.159	1.00	0.00
ATOM	1536	HD3	PRO	95	0.446	-2.211	-3.973	1.00	0.00
ATOM	1537	CG	PRO	95	2.167	-1.180	-4.845	1.00	0.00
ATOM	1538	HG2	PRO	95	3.217	-1.469	-4.906	1.00	0.00
ATOM	1539	HG3	PRO	95	2.032	-0.478	-4.022	1.00	0.00
ATOM	1540	CB	PRO	95	1.688	-0.595	-6.127	1.00	0.00
ATOM	1541	HB2	PRO	95	2.518	-0.101	-6.631	1.00	0.00
ATOM	1542	HB3	PRO	95	0.873	0.114	-5.988	1.00	0.00
ATOM	1543	CA	PRO	95	1.208	-1.786	-6.960	1.00	0.00
ATOM	1544	HA	PRO	95	0.305	-1.558	-7.526	1.00	0.00
ATOM	1545	C	PRO	95	2.306	-2.250	-7.919	1.00	0.00
ATOM	1546	O	PRO	95	2.401	-1.755	-9.038	1.00	0.00
ATOM	1547	N	SER	96	3.125	-3.210	-7.479	1.00	0.00
ATOM	1548	H	SER	96	3.019	-3.584	-6.547	1.00	0.00
ATOM	1549	CA	SER	96	4.200	-3.736	-8.319	1.00	0.00
ATOM	1550	HA	SER	96	4.861	-2.924	-8.622	1.00	0.00
ATOM	1551	CB	SER	96	5.022	-4.776	-7.555	1.00	0.00
ATOM	1552	HB2	SER	96	4.381	-5.611	-7.271	1.00	0.00
ATOM	1553	HB3	SER	96	5.831	-5.139	-8.189	1.00	0.00
ATOM	1554	OG	SER	96	5.567	-4.180	-6.387	1.00	0.00
ATOM	1555	HG	SER	96	6.083	-4.832	-5.906	1.00	0.00

ATOM	1556	C	SER	96	3.587	-4.366	-9.542	1.00	0.00
ATOM	1557	O	SER	96	4.063	-4.216	-10.668	1.00	0.00
ATOM	1558	N	ARG	97	2.506	-5.065	-9.273	1.00	0.00
ATOM	1559	H	ARG	97	2.205	-5.144	-8.312	1.00	0.00
ATOM	1560	CA	ARG	97	1.744	-5.748	-10.285	1.00	0.00
ATOM	1561	HA	ARG	97	2.336	-6.529	-10.763	1.00	0.00
ATOM	1562	CB	ARG	97	0.545	-6.395	-9.604	1.00	0.00
ATOM	1563	HB2	ARG	97	0.086	-5.679	-8.923	1.00	0.00
ATOM	1564	HB3	ARG	97	-0.181	-6.694	-10.359	1.00	0.00
ATOM	1565	CG	ARG	97	1.000	-7.629	-8.816	1.00	0.00
ATOM	1566	HG2	ARG	97	1.539	-8.304	-9.481	1.00	0.00
ATOM	1567	HG3	ARG	97	1.659	-7.317	-8.005	1.00	0.00
ATOM	1568	CD	ARG	97	-0.217	-8.352	-8.234	1.00	0.00
ATOM	1569	HD2	ARG	97	-0.856	-8.709	-9.042	1.00	0.00
ATOM	1570	HD3	ARG	97	0.110	-9.198	-7.629	1.00	0.00
ATOM	1571	NE	ARG	97	-0.992	-7.445	-7.390	1.00	0.00
ATOM	1572	HE	ARG	97	-0.725	-7.305	-6.426	1.00	0.00
ATOM	1573	CZ	ARG	97	-2.053	-6.789	-7.858	1.00	0.00
ATOM	1574	NH1	ARG	97	-2.439	-6.950	-9.096	1.00	0.00
ATOM	1575	HH11	ARG	97	-1.929	-7.576	-9.703	1.00	0.00
ATOM	1576	HH12	ARG	97	-3.244	-6.448	-9.440	1.00	0.00
ATOM	1577	NH2	ARG	97	-2.710	-5.980	-7.075	1.00	0.00

ATOM	1578	HH21	ARG	97	-2.411	-5.855	-6.118	1.00	0.00
ATOM	1579	HH22	ARG	97	-3.514	-5.482	-7.428	1.00	0.00
ATOM	1580	C	ARG	97	1.279	-4.791	-11.382	1.00	0.00
ATOM	1581	O	ARG	97	1.223	-5.165	-12.554	1.00	0.00
ATOM	1582	N	CYX	98	0.956	-3.556	-10.999	1.00	0.00
ATOM	1583	H	CYX	98	1.020	-3.288	-10.027	1.00	0.00
ATOM	1584	CA	CYX	98	0.509	-2.561	-11.961	1.00	0.00
ATOM	1585	HA	CYX	98	0.194	-3.059	-12.878	1.00	0.00
ATOM	1586	CB	CYX	98	-0.667	-1.754	-11.414	1.00	0.00
ATOM	1587	HB2	CYX	98	-0.301	-0.817	-10.994	1.00	0.00
ATOM	1588	HB3	CYX	98	-1.368	-1.541	-12.220	1.00	0.00
ATOM	1589	SG	CYX	98	-1.496	-2.688	-10.101	1.00	0.00
ATOM	1590	C	CYX	98	1.629	-1.602	-12.275	1.00	0.00
ATOM	1591	O	CYX	98	1.512	-0.786	-13.189	1.00	0.00
ATOM	1592	N	ASN	99	2.702	-1.668	-11.493	1.00	0.00
ATOM	1593	H	ASN	99	2.751	-2.299	-10.705	1.00	0.00
ATOM	1594	CA	ASN	99	3.797	-0.751	-11.704	1.00	0.00
ATOM	1595	HA	ASN	99	3.416	0.263	-11.584	1.00	0.00
ATOM	1596	CB	ASN	99	4.954	-0.946	-10.755	1.00	0.00
ATOM	1597	HB2	ASN	99	5.089	-2.003	-10.526	1.00	0.00
ATOM	1598	HB3	ASN	99	5.869	-0.551	-11.197	1.00	0.00
ATOM	1599	CG	ASN	99	4.678	-0.198	-9.456	1.00	0.00

ATOM	1600	OD1	ASN	99	4.974	-0.695	-8.370	1.00	0.00
ATOM	1601	ND2	ASN	99	4.128	0.986	-9.511	1.00	0.00
ATOM	1602	HD21	ASN	99	3.940	1.492	-8.657	1.00	0.00
ATOM	1603	HD22	ASN	99	3.894	1.389	-10.406	1.00	0.00
ATOM	1604	C	ASN	99	4.293	-0.812	-13.115	1.00	0.00
ATOM	1605	O	ASN	99	4.121	-1.798	-13.835	1.00	0.00
ATOM	1606	N	LEU	100	4.822	0.313	-13.510	1.00	0.00
ATOM	1607	H	LEU	100	4.924	1.072	-12.851	1.00	0.00
ATOM	1608	CA	LEU	100	5.269	0.518	-14.862	1.00	0.00
ATOM	1609	HA	LEU	100	5.597	-0.412	-15.326	1.00	0.00
ATOM	1610	CB	LEU	100	4.059	1.053	-15.637	1.00	0.00
ATOM	1611	HB2	LEU	100	4.375	1.923	-16.212	1.00	0.00
ATOM	1612	HB3	LEU	100	3.660	0.296	-16.312	1.00	0.00
ATOM	1613	CG	LEU	100	2.959	1.474	-14.624	1.00	0.00
ATOM	1614	HG	LEU	100	2.960	0.781	-13.782	1.00	0.00
ATOM	1615	CD1	LEU	100	3.234	2.890	-14.118	1.00	0.00
ATOM	1616	HD11	LEU	100	3.233	3.583	-14.959	1.00	0.00
ATOM	1617	HD12	LEU	100	2.460	3.179	-13.408	1.00	0.00
ATOM	1618	HD13	LEU	100	4.206	2.918	-13.625	1.00	0.00
ATOM	1619	CD2	LEU	100	1.588	1.407	-15.280	1.00	0.00
ATOM	1620	HD21	LEU	100	1.394	0.387	-15.614	1.00	0.00
ATOM	1621	HD22	LEU	100	0.826	1.704	-14.560	1.00	0.00

ATOM	1622	HD23	LEU	100	1.561	2.081	-16.136	1.00	0.00
ATOM	1623	C	LEU	100	6.418	1.521	-14.892	1.00	0.00
ATOM	1624	O	LEU	100	6.392	2.515	-14.169	1.00	0.00
ATOM	1625	N	SER	101	7.422	1.240	-15.726	1.00	0.00
ATOM	1626	H	SER	101	7.388	0.396	-16.280	1.00	0.00
ATOM	1627	CA	SER	101	8.598	2.106	-15.851	1.00	0.00
ATOM	1628	HA	SER	101	9.335	1.853	-15.088	1.00	0.00
ATOM	1629	CB	SER	101	9.235	1.914	-17.229	1.00	0.00
ATOM	1630	HB2	SER	101	9.522	0.870	-17.356	1.00	0.00
ATOM	1631	HB3	SER	101	8.520	2.191	-18.003	1.00	0.00
ATOM	1632	OG	SER	101	10.389	2.738	-17.333	1.00	0.00
ATOM	1633	HG	SER	101	10.791	2.619	-18.197	1.00	0.00
ATOM	1634	C	SER	101	8.221	3.575	-15.663	1.00	0.00
ATOM	1635	O	SER	101	7.772	4.239	-16.598	1.00	0.00
ATOM	1636	N	PRO	102	8.392	4.084	-14.468	1.00	0.00
ATOM	1637	CD	PRO	102	8.906	3.378	-13.298	1.00	0.00
ATOM	1638	HD2	PRO	102	9.981	3.536	-13.204	1.00	0.00
ATOM	1639	HD3	PRO	102	8.703	2.310	-13.383	1.00	0.00
ATOM	1640	CG	PRO	102	8.119	4.030	-12.173	1.00	0.00
ATOM	1641	HG2	PRO	102	8.702	3.982	-11.253	1.00	0.00
ATOM	1642	HG3	PRO	102	7.179	3.495	-12.035	1.00	0.00
ATOM	1643	CB	PRO	102	7.871	5.452	-12.593	1.00	0.00

ATOM	1644	HB2 PRO	102	8.614	6.084	-12.106	1.00	0.00
ATOM	1645	HB3 PRO	102	6.872	5.804	-12.338	1.00	0.00
ATOM	1646	CA PRO	102	8.069	5.492	-14.122	1.00	0.00
ATOM	1647	HA PRO	102	7.158	5.774	-14.649	1.00	0.00
ATOM	1648	C PRO	102	9.196	6.444	-14.510	1.00	0.00
ATOM	1649	O PRO	102	10.314	6.332	-14.003	1.00	0.00
ATOM	1650	N MET	103	8.900	7.376	-15.412	1.00	0.00
ATOM	1651	H MET	103	7.977	7.427	-15.819	1.00	0.00
ATOM	1652	CA MET	103	9.905	8.333	-15.856	1.00	0.00
ATOM	1653	HA MET	103	10.810	7.809	-16.164	1.00	0.00
ATOM	1654	CB MET	103	9.372	9.134	-17.049	1.00	0.00
ATOM	1655	HB2 MET	103	8.446	9.632	-16.764	1.00	0.00
ATOM	1656	HB3 MET	103	10.111	9.880	-17.341	1.00	0.00
ATOM	1657	CG MET	103	9.103	8.192	-18.228	1.00	0.00
ATOM	1658	HG2 MET	103	8.316	7.487	-17.960	1.00	0.00
ATOM	1659	HG3 MET	103	8.790	8.772	-19.095	1.00	0.00
ATOM	1660	SD MET	103	10.610	7.275	-18.638	1.00	0.00
ATOM	1661	CE MET	103	11.626	8.692	-19.125	1.00	0.00
ATOM	1662	HE1 MET	103	11.719	9.379	-18.284	1.00	0.00
ATOM	1663	HE2 MET	103	12.616	8.345	-19.421	1.00	0.00
ATOM	1664	HE3 MET	103	11.156	9.205	-19.963	1.00	0.00
ATOM	1665	C MET	103	10.273	9.286	-14.724	1.00	0.00



ATOM	1666	O	MET	103	11.439	9.378	-14.335	1.00	0.00
ATOM	1667	N	ARG	104	9.272	9.986	-14.193	1.00	0.00
ATOM	1668	H	ARG	104	8.333	9.893	-14.552	1.00	0.00
ATOM	1669	CA	ARG	104	9.504	10.921	-13.096	1.00	0.00
ATOM	1670	HA	ARG	104	10.325	10.570	-12.471	1.00	0.00
ATOM	1671	CB	ARG	104	9.871	12.301	-13.658	1.00	0.00
ATOM	1672	HB2	ARG	104	9.571	12.353	-14.704	1.00	0.00
ATOM	1673	HB3	ARG	104	9.347	13.070	-13.091	1.00	0.00
ATOM	1674	CG	ARG	104	11.385	12.527	-13.548	1.00	0.00
ATOM	1675	HG2	ARG	104	11.907	11.711	-14.049	1.00	0.00
ATOM	1676	HG3	ARG	104	11.643	13.471	-14.027	1.00	0.00
ATOM	1677	CD	ARG	104	11.804	12.572	-12.073	1.00	0.00
ATOM	1678	HD2	ARG	104	11.979	11.559	-11.710	1.00	0.00
ATOM	1679	HD3	ARG	104	12.718	13.157	-11.968	1.00	0.00
ATOM	1680	NE	ARG	104	10.758	13.187	-11.259	1.00	0.00
ATOM	1681	HE	ARG	104	10.156	12.607	-10.692	1.00	0.00
ATOM	1682	CZ	ARG	104	10.570	14.505	-11.242	1.00	0.00
ATOM	1683	NH1	ARG	104	11.333	15.287	-11.958	1.00	0.00
ATOM	1684	HH11	ARG	104	12.068	14.889	-12.525	1.00	0.00
ATOM	1685	HH12	ARG	104	11.185	16.286	-11.940	1.00	0.00
ATOM	1686	NH2	ARG	104	9.623	15.016	-10.507	1.00	0.00
ATOM	1687	HH21	ARG	104	9.035	14.409	-9.953	1.00	0.00

ATOM	1688	HH22	ARG	104	9.482	16.016	-10.495	1.00	0.00
ATOM	1689	C	ARG	104	8.266	11.050	-12.210	1.00	0.00
ATOM	1690	O	ARG	104	7.141	11.107	-12.706	1.00	0.00
ATOM	1691	N	CYX	105	8.491	11.127	-10.899	1.00	0.00
ATOM	1692	H	CYX	105	9.433	11.059	-10.540	1.00	0.00
ATOM	1693	CA	CYX	105	7.397	11.287	-9.945	1.00	0.00
ATOM	1694	HA	CYX	105	6.444	11.115	-10.444	1.00	0.00
ATOM	1695	CB	CYX	105	7.536	10.283	-8.798	1.00	0.00
ATOM	1696	HB2	CYX	105	8.572	10.259	-8.459	1.00	0.00
ATOM	1697	HB3	CYX	105	6.891	10.582	-7.972	1.00	0.00
ATOM	1698	SG	CYX	105	7.077	8.629	-9.378	1.00	0.00
ATOM	1699	C	CYX	105	7.403	12.711	-9.387	1.00	0.00
ATOM	1700	O	CYX	105	8.312	13.083	-8.645	1.00	0.00
ATOM	1701	N	PRO	106	6.420	13.511	-9.729	1.00	0.00
ATOM	1702	CD	PRO	106	5.302	13.164	-10.618	1.00	0.00
ATOM	1703	HD2	PRO	106	4.610	12.511	-10.085	1.00	0.00
ATOM	1704	HD3	PRO	106	5.689	12.644	-11.494	1.00	0.00
ATOM	1705	CG	PRO	106	4.681	14.517	-10.969	1.00	0.00
ATOM	1706	HG2	PRO	106	3.602	14.398	-11.065	1.00	0.00
ATOM	1707	HG3	PRO	106	5.094	14.862	-11.917	1.00	0.00
ATOM	1708	CB	PRO	106	5.030	15.457	-9.862	1.00	0.00
ATOM	1709	HB2	PRO	106	4.236	15.460	-9.115	1.00	0.00

ATOM	1710	HB3 PRO	106	5.185	16.471	-10.231	1.00	0.00
ATOM	1711	CA PRO	106	6.323	14.924	-9.244	1.00	0.00
ATOM	1712	HA PRO	106	7.195	15.460	-9.618	1.00	0.00
ATOM	1713	C PRO	106	6.270	15.038	-7.726	1.00	0.00
ATOM	1714	O PRO	106	6.093	16.128	-7.185	1.00	0.00
ATOM	1715	N MET	107	6.424	13.915	-7.048	1.00	0.00
ATOM	1716	H MET	107	6.582	13.042	-7.531	1.00	0.00
ATOM	1717	CA MET	107	6.392	13.902	-5.597	1.00	0.00
ATOM	1718	HA MET	107	5.565	14.508	-5.227	1.00	0.00
ATOM	1719	CB MET	107	6.200	12.484	-5.122	1.00	0.00
ATOM	1720	HB2 MET	107	6.806	11.818	-5.736	1.00	0.00
ATOM	1721	HB3 MET	107	6.521	12.410	-4.083	1.00	0.00
ATOM	1722	CG MET	107	4.725	12.079	-5.231	1.00	0.00
ATOM	1723	HG2 MET	107	4.646	11.145	-5.788	1.00	0.00
ATOM	1724	HG3 MET	107	4.313	11.941	-4.231	1.00	0.00
ATOM	1725	SD MET	107	3.784	13.368	-6.092	1.00	0.00
ATOM	1726	CE MET	107	3.761	12.594	-7.726	1.00	0.00
ATOM	1727	HE1 MET	107	3.266	11.625	-7.663	1.00	0.00
ATOM	1728	HE2 MET	107	3.221	13.233	-8.424	1.00	0.00
ATOM	1729	HE3 MET	107	4.784	12.456	-8.077	1.00	0.00
ATOM	1730	C MET	107	7.699	14.424	-5.046	1.00	0.00
ATOM	1731	O MET	107	8.648	13.671	-4.819	1.00	0.00

ATOM	1732	N	GLY	108	7.733	15.720	-4.839	1.00	0.00
ATOM	1733	H	GLY	108	6.925	16.290	-5.044	1.00	0.00
ATOM	1734	CA	GLY	108	8.916	16.369	-4.316	1.00	0.00
ATOM	1735	HA2	GLY	108	8.652	17.365	-3.962	1.00	0.00
ATOM	1736	HA3	GLY	108	9.311	15.782	-3.486	1.00	0.00
ATOM	1737	C	GLY	108	9.990	16.493	-5.391	1.00	0.00
ATOM	1738	O	GLY	108	11.182	16.549	-5.087	1.00	0.00
ATOM	1739	N	GLY	109	9.553	16.542	-6.648	1.00	0.00
ATOM	1740	H	GLY	109	8.564	16.491	-6.845	1.00	0.00
ATOM	1741	CA	GLY	109	10.478	16.669	-7.771	1.00	0.00
ATOM	1742	HA2	GLY	109	9.923	16.560	-8.702	1.00	0.00
ATOM	1743	HA3	GLY	109	10.944	17.654	-7.738	1.00	0.00
ATOM	1744	C	GLY	109	11.569	15.602	-7.716	1.00	0.00
ATOM	1745	O	GLY	109	12.740	15.914	-7.495	1.00	0.00
ATOM	1746	N	SER	110	11.178	14.344	-7.920	1.00	0.00
ATOM	1747	H	SER	110	10.204	14.129	-8.076	1.00	0.00
ATOM	1748	CA	SER	110	12.136	13.239	-7.893	1.00	0.00
ATOM	1749	HA	SER	110	12.566	13.142	-6.896	1.00	0.00
ATOM	1750	CB	SER	110	11.436	11.929	-8.252	1.00	0.00
ATOM	1751	HB2	SER	110	11.072	11.979	-9.278	1.00	0.00
ATOM	1752	HB3	SER	110	12.139	11.101	-8.156	1.00	0.00
ATOM	1753	OG	SER	110	10.340	11.724	-7.369	1.00	0.00

ATOM	1754	HG	SER	110	9.899	10.901	-7.592	1.00	0.00
ATOM	1755	C	SER	110	13.279	13.500	-8.872	1.00	0.00
ATOM	1756	O	SER	110	13.122	14.251	-9.835	1.00	0.00
ATOM	1757	N	ILE	111	14.430	12.883	-8.617	1.00	0.00
ATOM	1758	H	ILE	111	14.528	12.294	-7.802	1.00	0.00
ATOM	1759	CA	ILE	111	15.593	13.067	-9.482	1.00	0.00
ATOM	1760	HA	ILE	111	15.503	14.016	-10.010	1.00	0.00
ATOM	1761	CB	ILE	111	16.875	13.071	-8.641	1.00	0.00
ATOM	1762	HB	ILE	111	16.971	12.117	-8.121	1.00	0.00
ATOM	1763	CG2	ILE	111	18.089	13.279	-9.554	1.00	0.00
ATOM	1764	HG21	ILE	111	17.995	14.232	-10.073	1.00	0.00
ATOM	1765	HG22	ILE	111	18.999	13.281	-8.954	1.00	0.00
ATOM	1766	HG23	ILE	111	18.138	12.471	-10.284	1.00	0.00
ATOM	1767	CG1	ILE	111	16.806	14.209	-7.614	1.00	0.00
ATOM	1768	HG12	ILE	111	16.835	15.167	-8.133	1.00	0.00
ATOM	1769	HG13	ILE	111	15.877	14.130	-7.049	1.00	0.00
ATOM	1770	CD1	ILE	111	17.996	14.112	-6.655	1.00	0.00
ATOM	1771	HD11	ILE	111	18.926	14.190	-7.219	1.00	0.00
ATOM	1772	HD12	ILE	111	17.944	14.921	-5.927	1.00	0.00
ATOM	1773	HD13	ILE	111	17.968	13.154	-6.135	1.00	0.00
ATOM	1774	C	ILE	111	15.662	11.962	-10.534	1.00	0.00
ATOM	1775	O	ILE	111	15.270	12.162	-11.685	1.00	0.00

ATOM	1776	N	ALA	112	16.137	10.789	-10.120	1.00	0.00
ATOM	1777	H	ALA	112	16.438	10.677	-9.162	1.00	0.00
ATOM	1778	CA	ALA	112	16.228	9.645	-11.008	1.00	0.00
ATOM	1779	HA	ALA	112	16.717	9.891	-11.950	1.00	0.00
ATOM	1780	CB	ALA	112	17.005	8.517	-10.336	1.00	0.00
ATOM	1781	HB1	ALA	112	16.522	8.253	-9.395	1.00	0.00
ATOM	1782	HB2	ALA	112	17.023	7.646	-10.991	1.00	0.00
ATOM	1783	HB3	ALA	112	18.026	8.844	-10.140	1.00	0.00
ATOM	1784	C	ALA	112	14.837	9.169	-11.317	1.00	0.00
ATOM	1785	O	ALA	112	13.861	9.847	-10.991	1.00	0.00
ATOM	1786	N	GLY	113	14.723	7.985	-11.890	1.00	0.00
ATOM	1787	H	GLY	113	15.512	7.416	-12.163	1.00	0.00
ATOM	1788	CA	GLY	113	13.404	7.481	-12.136	1.00	0.00
ATOM	1789	HA2	GLY	113	12.750	8.266	-12.513	1.00	0.00
ATOM	1790	HA3	GLY	113	13.428	6.655	-12.847	1.00	0.00
ATOM	1791	C	GLY	113	12.859	6.978	-10.815	1.00	0.00
ATOM	1792	O	GLY	113	13.148	5.859	-10.389	1.00	0.00
ATOM	1793	N	PHE	114	12.099	7.845	-10.163	1.00	0.00
ATOM	1794	H	PHE	114	11.924	8.754	-10.566	1.00	0.00
ATOM	1795	CA	PHE	114	11.522	7.545	-8.857	1.00	0.00
ATOM	1796	HA	PHE	114	12.269	7.683	-8.075	1.00	0.00
ATOM	1797	CB	PHE	114	10.347	8.486	-8.582	1.00	0.00

ATOM	1798	HB2 PHE	114	10.635	9.535	-8.652	1.00	0.00
ATOM	1799	HB3 PHE	114	9.506	8.295	-9.248	1.00	0.00
ATOM	1800	CG PHE	114	9.841	8.270	-7.173	1.00	0.00
ATOM	1801	CD1 PHE	114	10.449	8.938	-6.102	1.00	0.00
ATOM	1802	HD1 PHE	114	11.287	9.611	-6.283	1.00	0.00
ATOM	1803	CE1 PHE	114	9.980	8.740	-4.798	1.00	0.00
ATOM	1804	HE1 PHE	114	10.453	9.260	-3.965	1.00	0.00
ATOM	1805	CZ PHE	114	8.906	7.875	-4.563	1.00	0.00
ATOM	1806	HZ PHE	114	8.543	7.721	-3.547	1.00	0.00
ATOM	1807	CE2 PHE	114	8.298	7.207	-5.633	1.00	0.00
ATOM	1808	HE2 PHE	114	7.462	6.533	-5.450	1.00	0.00
ATOM	1809	CD2 PHE	114	8.765	7.405	-6.938	1.00	0.00
ATOM	1810	HD2 PHE	114	8.291	6.886	-7.771	1.00	0.00
ATOM	1811	C PHE	114	11.042	6.094	-8.784	1.00	0.00
ATOM	1812	O PHE	114	11.443	5.405	-7.861	1.00	0.00
ATOM	1813	OXT PHE	114	10.280	5.696	-9.651	1.00	0.00
TER								
ATOM	1814	S1 LIG	115	20.186	-17.648	-7.229	1.00	0.00
ATOM	1815	S2 LIG	115	17.500	-22.374	-1.683	1.00	0.00
ATOM	1816	O1 LIG	115	14.611	-18.284	-3.197	1.00	0.00
ATOM	1817	H5 LIG	115	14.071	-18.772	-2.539	1.00	0.00
ATOM	1818	O2 LIG	115	20.828	-16.228	-6.847	1.00	0.00

ATOM	1819	H6	LIG	115	20.063	-15.587	-6.964	1.00	0.00
ATOM	1820	O3	LIG	115	16.328	-23.416	-2.033	1.00	0.00
ATOM	1821	H7	LIG	115	15.493	-22.948	-1.741	1.00	0.00
ATOM	1822	O4	LIG	115	21.197	-18.650	-6.962	1.00	0.00
ATOM	1823	O5	LIG	115	19.536	-17.567	-8.529	1.00	0.00
ATOM	1824	O6	LIG	115	18.733	-22.944	-2.184	1.00	0.00
ATOM	1825	O7	LIG	115	17.376	-21.942	-0.299	1.00	0.00
ATOM	1826	O8	LIG	115	15.898	-10.411	-10.471	1.00	0.00
ATOM	1827	O9	LIG	115	17.965	-9.758	-10.344	1.00	0.00
ATOM	1828	N1	LIG	115	15.624	-16.486	-4.865	1.00	0.00
ATOM	1829	H3	LIG	115	14.830	-16.736	-4.298	1.00	0.00
ATOM	1830	H4	LIG	115	15.616	-15.663	-5.447	1.00	0.00
ATOM	1831	N2	LIG	115	17.480	-15.784	-6.548	1.00	0.00
ATOM	1832	N3	LIG	115	14.734	-20.426	-1.828	1.00	0.00
ATOM	1833	N4	LIG	115	18.410	-15.145	-7.122	1.00	0.00
ATOM	1834	N5	LIG	115	14.510	-21.563	-1.331	1.00	0.00
ATOM	1835	N6	LIG	115	17.061	-10.549	-10.110	1.00	0.00
ATOM	1836	C1	LIG	115	16.761	-18.539	-4.217	1.00	0.00
ATOM	1837	C2	LIG	115	17.927	-19.348	-4.344	1.00	0.00
ATOM	1838	C3	LIG	115	16.671	-17.320	-4.987	1.00	0.00
ATOM	1839	C4	LIG	115	18.870	-17.831	-5.984	1.00	0.00
ATOM	1840	C5	LIG	115	18.958	-18.975	-5.241	1.00	0.00



ATOM	1841	H1	LIG	115	19.820	-19.619	-5.357	1.00	0.00
ATOM	1842	C6	LIG	115	15.748	-18.996	-3.335	1.00	0.00
ATOM	1843	C7	LIG	115	17.075	-20.950	-2.726	1.00	0.00
ATOM	1844	C8	LIG	115	18.062	-20.530	-3.577	1.00	0.00
ATOM	1845	H2	LIG	115	18.972	-21.111	-3.656	1.00	0.00
ATOM	1846	C9	LIG	115	17.738	-16.958	-5.876	1.00	0.00
ATOM	1847	C10	LIG	115	15.868	-20.198	-2.598	1.00	0.00
ATOM	1848	C11	LIG	115	18.011	-14.016	-7.863	1.00	0.00
ATOM	1849	C12	LIG	115	13.369	-21.687	-0.517	1.00	0.00
ATOM	1850	C13	LIG	115	16.695	-13.811	-8.313	1.00	0.00
ATOM	1851	H8	LIG	115	15.938	-14.555	-8.106	1.00	0.00
ATOM	1852	C14	LIG	115	19.015	-13.092	-8.184	1.00	0.00
ATOM	1853	H9	LIG	115	20.031	-13.272	-7.855	1.00	0.00
ATOM	1854	C15	LIG	115	16.385	-12.677	-9.046	1.00	0.00
ATOM	1855	H10	LIG	115	15.385	-12.498	-9.413	1.00	0.00
ATOM	1856	C16	LIG	115	18.708	-11.952	-8.912	1.00	0.00
ATOM	1857	H11	LIG	115	19.464	-11.221	-9.162	1.00	0.00
ATOM	1858	C17	LIG	115	17.395	-11.758	-9.328	1.00	0.00
ATOM	1859	C18	LIG	115	12.665	-20.597	0.021	1.00	0.00
ATOM	1860	H12	LIG	115	13.013	-19.589	-0.162	1.00	0.00
ATOM	1861	C19	LIG	115	12.961	-22.997	-0.226	1.00	0.00
ATOM	1862	H13	LIG	115	13.527	-23.830	-0.625	1.00	0.00

ATOM	1863	C20	LIG	115	11.550	-20.826	0.813	1.00	0.00
ATOM	1864	H14	LIG	115	11.011	-19.987	1.238	1.00	0.00
ATOM	1865	C21	LIG	115	11.836	-23.216	0.560	1.00	0.00
ATOM	1866	H15	LIG	115	11.519	-24.229	0.775	1.00	0.00
ATOM	1867	C22	LIG	115	11.128	-22.133	1.079	1.00	0.00
ATOM	1868	H16	LIG	115	10.258	-22.303	1.702	1.00	0.00
TER									
ATOM	1869	S1	LIG	116	-18.229	18.521	5.449	1.00	0.00
ATOM	1870	S2	LIG	116	-20.882	25.742	6.508	1.00	0.00
ATOM	1871	O1	LIG	116	-23.239	22.622	3.034	1.00	0.00
ATOM	1872	H5	LIG	116	-23.757	23.454	3.050	1.00	0.00
ATOM	1873	O2	LIG	116	-17.318	18.168	4.176	1.00	0.00
ATOM	1874	H6	LIG	116	-17.976	17.798	3.513	1.00	0.00
ATOM	1875	O3	LIG	116	-22.245	25.971	7.327	1.00	0.00
ATOM	1876	H7	LIG	116	-22.945	26.046	6.616	1.00	0.00
ATOM	1877	O4	LIG	116	-17.369	19.180	6.410	1.00	0.00
ATOM	1878	O5	LIG	116	-19.027	17.363	5.827	1.00	0.00
ATOM	1879	O6	LIG	116	-19.838	25.513	7.485	1.00	0.00
ATOM	1880	O7	LIG	116	-20.746	26.768	5.485	1.00	0.00
ATOM	1881	O8	LIG	116	-21.670	12.466	-0.276	1.00	0.00
ATOM	1882	O9	LIG	116	-19.526	12.183	-0.471	1.00	0.00
ATOM	1883	N1	LIG	116	-22.178	20.265	2.430	1.00	0.00

ATOM	1884	H3	LIG	116	-22.920	20.917	2.228	1.00	0.00
ATOM	1885	H4	LIG	116	-22.130	19.367	1.974	1.00	0.00
ATOM	1886	N2	LIG	116	-20.476	18.370	2.961	1.00	0.00
ATOM	1887	N3	LIG	116	-23.285	24.825	4.306	1.00	0.00
ATOM	1888	N4	LIG	116	-19.540	17.525	2.857	1.00	0.00
ATOM	1889	N5	LIG	116	-23.623	25.805	5.025	1.00	0.00
ATOM	1890	N6	LIG	116	-20.507	12.799	-0.077	1.00	0.00
ATOM	1891	C1	LIG	116	-21.317	21.746	4.160	1.00	0.00
ATOM	1892	C2	LIG	116	-20.327	21.961	5.161	1.00	0.00
ATOM	1893	C3	LIG	116	-21.308	20.501	3.427	1.00	0.00
ATOM	1894	C4	LIG	116	-19.378	19.763	4.776	1.00	0.00
ATOM	1895	C5	LIG	116	-19.379	20.949	5.454	1.00	0.00
ATOM	1896	H1	LIG	116	-18.658	21.110	6.245	1.00	0.00
ATOM	1897	C6	LIG	116	-22.262	22.783	3.951	1.00	0.00
ATOM	1898	C7	LIG	116	-21.204	24.175	5.651	1.00	0.00
ATOM	1899	C8	LIG	116	-20.285	23.185	5.873	1.00	0.00
ATOM	1900	H2	LIG	116	-19.502	23.346	6.602	1.00	0.00
ATOM	1901	C9	LIG	116	-20.326	19.501	3.734	1.00	0.00
ATOM	1902	C10	LIG	116	-22.244	23.990	4.689	1.00	0.00
ATOM	1903	C11	LIG	116	-19.846	16.361	2.125	1.00	0.00
ATOM	1904	C12	LIG	116	-24.649	26.632	4.529	1.00	0.00
ATOM	1905	C13	LIG	116	-21.158	15.924	1.876	1.00	0.00

ATOM	1906	H8	LIG	116	-21.992	16.487	2.272	1.00	0.00
ATOM	1907	C14	LIG	116	-18.756	15.602	1.675	1.00	0.00
ATOM	1908	H9	LIG	116	-17.748	15.933	1.894	1.00	0.00
ATOM	1909	C15	LIG	116	-21.374	14.761	1.155	1.00	0.00
ATOM	1910	H10	LIG	116	-22.372	14.397	0.956	1.00	0.00
ATOM	1911	C16	LIG	116	-18.966	14.440	0.947	1.00	0.00
ATOM	1912	H11	LIG	116	-18.142	13.845	0.581	1.00	0.00
ATOM	1913	C17	LIG	116	-20.275	14.039	0.693	1.00	0.00
ATOM	1914	C18	LIG	116	-25.086	26.629	3.194	1.00	0.00
ATOM	1915	H12	LIG	116	-24.605	25.981	2.473	1.00	0.00
ATOM	1916	C19	LIG	116	-25.223	27.517	5.453	1.00	0.00
ATOM	1917	H13	LIG	116	-24.860	27.529	6.474	1.00	0.00
ATOM	1918	C20	LIG	116	-26.106	27.483	2.806	1.00	0.00
ATOM	1919	H14	LIG	116	-26.439	27.491	1.775	1.00	0.00
ATOM	1920	C21	LIG	116	-26.252	28.363	5.057	1.00	0.00
ATOM	1921	H15	LIG	116	-26.700	29.039	5.774	1.00	0.00
ATOM	1922	C22	LIG	116	-26.697	28.346	3.735	1.00	0.00
ATOM	1923	H16	LIG	116	-27.491	29.014	3.422	1.00	0.00
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ATOM	1924	S1	LIG	117	16.222	-4.253	18.092	1.00	0.00
ATOM	1925	S2	LIG	117	23.654	-2.819	16.356	1.00	0.00
ATOM	1926	O1	LIG	117	22.415	-7.199	18.932	1.00	0.00

ATOM	1927	H5	LIG	117	23.382	-7.242	18.769	1.00	0.00
ATOM	1928	O2	LIG	117	15.669	-3.995	19.576	1.00	0.00
ATOM	1929	H6	LIG	117	15.725	-4.900	20.007	1.00	0.00
ATOM	1930	O3	LIG	117	24.360	-3.638	15.167	1.00	0.00
ATOM	1931	H7	LIG	117	24.835	-4.383	15.636	1.00	0.00
ATOM	1932	O4	LIG	117	16.291	-2.962	17.439	1.00	0.00
ATOM	1933	O5	LIG	117	15.507	-5.365	17.480	1.00	0.00
ATOM	1934	O6	LIG	117	22.853	-1.784	15.736	1.00	0.00
ATOM	1935	O7	LIG	117	24.634	-2.499	17.382	1.00	0.00
ATOM	1936	O8	LIG	117	13.175	-11.527	22.461	1.00	0.00
ATOM	1937	O9	LIG	117	11.988	-9.908	23.287	1.00	0.00
ATOM	1938	N1	LIG	117	19.937	-7.573	19.803	1.00	0.00
ATOM	1939	H3	LIG	117	20.872	-7.947	19.780	1.00	0.00
ATOM	1940	H4	LIG	117	19.181	-8.076	20.244	1.00	0.00
ATOM	1941	N2	LIG	117	17.427	-6.885	19.789	1.00	0.00
ATOM	1942	N3	LIG	117	24.214	-5.863	17.726	1.00	0.00
ATOM	1943	N4	LIG	117	16.273	-6.522	20.161	1.00	0.00
ATOM	1944	N5	LIG	117	25.137	-5.496	16.948	1.00	0.00
ATOM	1945	N6	LIG	117	12.920	-10.339	22.622	1.00	0.00
ATOM	1946	C1	LIG	117	20.629	-5.688	18.426	1.00	0.00
ATOM	1947	C2	LIG	117	20.242	-4.485	17.770	1.00	0.00
ATOM	1948	C3	LIG	117	19.622	-6.462	19.115	1.00	0.00

ATOM	1949	C4	LIG	117	17.925	-4.820	18.401	1.00	0.00
ATOM	1950	C5	LIG	117	18.883	-4.082	17.765	1.00	0.00
ATOM	1951	H1	LIG	117	18.597	-3.187	17.228	1.00	0.00
ATOM	1952	C6	LIG	117	21.998	-6.055	18.352	1.00	0.00
ATOM	1953	C7	LIG	117	22.527	-4.055	17.062	1.00	0.00
ATOM	1954	C8	LIG	117	21.210	-3.685	17.116	1.00	0.00
ATOM	1955	H2	LIG	117	20.904	-2.754	16.657	1.00	0.00
ATOM	1956	C9	LIG	117	18.257	-6.021	19.108	1.00	0.00
ATOM	1957	C10	LIG	117	22.958	-5.275	17.665	1.00	0.00
ATOM	1958	C11	LIG	117	15.479	-7.521	20.756	1.00	0.00
ATOM	1959	C12	LIG	117	26.394	-6.105	17.121	1.00	0.00
ATOM	1960	C13	LIG	117	15.716	-8.897	20.596	1.00	0.00
ATOM	1961	H8	LIG	117	16.535	-9.228	19.972	1.00	0.00
ATOM	1962	C14	LIG	117	14.378	-7.080	21.504	1.00	0.00
ATOM	1963	H9	LIG	117	14.189	-6.019	21.601	1.00	0.00
ATOM	1964	C15	LIG	117	14.881	-9.817	21.207	1.00	0.00
ATOM	1965	H10	LIG	117	15.034	-10.881	21.094	1.00	0.00
ATOM	1966	C16	LIG	117	13.543	-7.998	22.124	1.00	0.00
ATOM	1967	H11	LIG	117	12.695	-7.682	22.715	1.00	0.00
ATOM	1968	C17	LIG	117	13.810	-9.355	21.970	1.00	0.00
ATOM	1969	C18	LIG	117	26.764	-6.834	18.264	1.00	0.00
ATOM	1970	H12	LIG	117	26.071	-6.927	19.090	1.00	0.00

ATOM	1971	C19	LIG	117	27.312	-5.925	16.077	1.00	0.00
ATOM	1972	H13	LIG	117	27.025	-5.339	15.212	1.00	0.00
ATOM	1973	C20	LIG	117	28.029	-7.397	18.336	1.00	0.00
ATOM	1974	H14	LIG	117	28.322	-7.951	19.220	1.00	0.00
ATOM	1975	C21	LIG	117	28.574	-6.502	16.154	1.00	0.00
ATOM	1976	H15	LIG	117	29.278	-6.368	15.342	1.00	0.00
ATOM	1977	C22	LIG	117	28.934	-7.240	17.281	1.00	0.00
ATOM	1978	H16	LIG	117	29.923	-7.680	17.348	1.00	0.00

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ATOM	1979	S1	LIG	118	-23.141	15.892	-20.995	1.00	0.00
ATOM	1980	S2	LIG	118	-19.790	22.757	-19.596	1.00	0.00
ATOM	1981	O1	LIG	118	-23.512	22.411	-23.255	1.00	0.00
ATOM	1982	H5	LIG	118	-23.268	23.359	-23.202	1.00	0.00
ATOM	1983	O2	LIG	118	-22.711	15.022	-22.273	1.00	0.00
ATOM	1984	H6	LIG	118	-23.401	15.262	-22.962	1.00	0.00
ATOM	1985	O3	LIG	118	-20.602	23.880	-18.782	1.00	0.00
ATOM	1986	H7	LIG	118	-20.996	24.459	-19.497	1.00	0.00
ATOM	1987	O4	LIG	118	-22.116	15.696	-19.990	1.00	0.00
ATOM	1988	O5	LIG	118	-24.545	15.663	-20.686	1.00	0.00
ATOM	1989	O6	LIG	118	-19.282	21.815	-18.620	1.00	0.00
ATOM	1990	O7	LIG	118	-18.907	23.391	-20.562	1.00	0.00
ATOM	1991	O8	LIG	118	-29.630	14.373	-27.066	1.00	0.00

ATOM	1992	O9	LIG	118	-28.349	12.629	-27.249	1.00	0.00
ATOM	1993	N1	LIG	118	-24.460	20.037	-23.967	1.00	0.00
ATOM	1994	H3	LIG	118	-24.490	21.028	-24.144	1.00	0.00
ATOM	1995	H4	LIG	118	-25.055	19.395	-24.468	1.00	0.00
ATOM	1996	N2	LIG	118	-24.683	17.484	-23.514	1.00	0.00
ATOM	1997	N3	LIG	118	-22.008	23.926	-21.871	1.00	0.00
ATOM	1998	N4	LIG	118	-24.646	16.226	-23.650	1.00	0.00
ATOM	1999	N5	LIG	118	-21.565	24.827	-21.107	1.00	0.00
ATOM	2000	N6	LIG	118	-28.597	13.753	-26.836	1.00	0.00
ATOM	2001	C1	LIG	118	-22.874	20.385	-22.152	1.00	0.00
ATOM	2002	C2	LIG	118	-22.083	19.788	-21.129	1.00	0.00
ATOM	2003	C3	LIG	118	-23.736	19.541	-22.948	1.00	0.00
ATOM	2004	C4	LIG	118	-23.002	17.598	-21.616	1.00	0.00
ATOM	2005	C5	LIG	118	-22.175	18.397	-20.877	1.00	0.00
ATOM	2006	H1	LIG	118	-21.599	17.963	-20.070	1.00	0.00
ATOM	2007	C6	LIG	118	-22.765	21.789	-22.319	1.00	0.00
ATOM	2008	C7	LIG	118	-21.107	21.935	-20.537	1.00	0.00
ATOM	2009	C8	LIG	118	-21.201	20.581	-20.355	1.00	0.00
ATOM	2010	H2	LIG	118	-20.578	20.105	-19.609	1.00	0.00
ATOM	2011	C9	LIG	118	-23.797	18.133	-22.682	1.00	0.00
ATOM	2012	C10	LIG	118	-21.913	22.586	-21.519	1.00	0.00
ATOM	2013	C11	LIG	118	-25.665	15.666	-24.445	1.00	0.00



ATOM	2014	C12	LIG	118	-21.650	26.153	-21.571	1.00	0.00
ATOM	2015	C13	LIG	118	-26.873	16.324	-24.732	1.00	0.00
ATOM	2016	H8	LIG	118	-27.058	17.305	-24.317	1.00	0.00
ATOM	2017	C14	LIG	118	-25.443	14.366	-24.920	1.00	0.00
ATOM	2018	H9	LIG	118	-24.520	13.857	-24.672	1.00	0.00
ATOM	2019	C15	LIG	118	-27.830	15.699	-25.515	1.00	0.00
ATOM	2020	H10	LIG	118	-28.772	16.177	-25.744	1.00	0.00
ATOM	2021	C16	LIG	118	-26.396	13.738	-25.710	1.00	0.00
ATOM	2022	H11	LIG	118	-26.242	12.741	-26.096	1.00	0.00
ATOM	2023	C17	LIG	118	-27.575	14.418	-26.000	1.00	0.00
ATOM	2024	C18	LIG	118	-21.892	26.503	-22.910	1.00	0.00
ATOM	2025	H12	LIG	118	-21.996	25.728	-23.658	1.00	0.00
ATOM	2026	C19	LIG	118	-21.447	27.154	-20.610	1.00	0.00
ATOM	2027	H13	LIG	118	-21.235	26.872	-19.586	1.00	0.00
ATOM	2028	C20	LIG	118	-21.958	27.842	-23.266	1.00	0.00
ATOM	2029	H14	LIG	118	-22.134	28.116	-24.299	1.00	0.00
ATOM	2030	C21	LIG	118	-21.526	28.493	-20.975	1.00	0.00
ATOM	2031	H15	LIG	118	-21.377	29.263	-20.228	1.00	0.00
ATOM	2032	C22	LIG	118	-21.783	28.839	-22.301	1.00	0.00
ATOM	2033	H16	LIG	118	-21.832	29.883	-22.588	1.00	0.00
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ATOM	2034	S1	LIG	119	-11.262	21.248	15.337	1.00	0.00

ATOM	2035	S2	LIG	119	-3.905	23.609	14.558	1.00	0.00
ATOM	2036	O1	LIG	119	-5.140	20.266	18.386	1.00	0.00
ATOM	2037	H5	LIG	119	-4.168	20.388	18.433	1.00	0.00
ATOM	2038	O2	LIG	119	-12.205	21.883	16.470	1.00	0.00
ATOM	2039	H6	LIG	119	-12.135	21.227	17.227	1.00	0.00
ATOM	2040	O3	LIG	119	-2.814	22.604	13.941	1.00	0.00
ATOM	2041	H7	LIG	119	-2.375	22.200	14.745	1.00	0.00
ATOM	2042	O4	LIG	119	-11.209	22.204	14.251	1.00	0.00
ATOM	2043	O5	LIG	119	-11.637	19.862	15.097	1.00	0.00
ATOM	2044	O6	LIG	119	-4.658	24.148	13.444	1.00	0.00
ATOM	2045	O7	LIG	119	-3.272	24.484	15.533	1.00	0.00
ATOM	2046	O8	LIG	119	-14.283	15.507	21.597	1.00	0.00
ATOM	2047	O9	LIG	119	-15.854	17.001	21.483	1.00	0.00
ATOM	2048	N1	LIG	119	-7.682	19.677	18.868	1.00	0.00
ATOM	2049	H3	LIG	119	-6.729	19.541	19.165	1.00	0.00
ATOM	2050	H4	LIG	119	-8.448	19.207	19.326	1.00	0.00
ATOM	2051	N2	LIG	119	-10.176	19.731	18.126	1.00	0.00
ATOM	2052	N3	LIG	119	-3.296	21.457	17.099	1.00	0.00
ATOM	2053	N4	LIG	119	-11.425	19.933	18.107	1.00	0.00
ATOM	2054	N5	LIG	119	-2.266	21.723	16.421	1.00	0.00
ATOM	2055	N6	LIG	119	-14.733	16.585	21.226	1.00	0.00
ATOM	2056	C1	LIG	119	-6.930	21.056	17.008	1.00	0.00

ATOM	2057	C2	LIG	119	-7.300	21.829	15.870	1.00	0.00
ATOM	2058	C3	LIG	119	-7.962	20.371	17.752	1.00	0.00
ATOM	2059	C4	LIG	119	-9.633	21.227	16.149	1.00	0.00
ATOM	2060	C5	LIG	119	-8.655	21.887	15.459	1.00	0.00
ATOM	2061	H1	LIG	119	-8.917	22.445	14.569	1.00	0.00
ATOM	2062	C6	LIG	119	-5.550	21.005	17.335	1.00	0.00
ATOM	2063	C7	LIG	119	-4.992	22.483	15.478	1.00	0.00
ATOM	2064	C8	LIG	119	-6.318	22.541	15.140	1.00	0.00
ATOM	2065	H2	LIG	119	-6.622	23.155	14.303	1.00	0.00
ATOM	2066	C9	LIG	119	-9.328	20.461	17.322	1.00	0.00
ATOM	2067	C10	LIG	119	-4.565	21.686	16.582	1.00	0.00
ATOM	2068	C11	LIG	119	-12.199	19.058	18.894	1.00	0.00
ATOM	2069	C12	LIG	119	-1.023	21.514	17.047	1.00	0.00
ATOM	2070	C13	LIG	119	-11.741	17.806	19.338	1.00	0.00
ATOM	2071	H8	LIG	119	-10.752	17.469	19.057	1.00	0.00
ATOM	2072	C14	LIG	119	-13.503	19.475	19.193	1.00	0.00
ATOM	2073	H9	LIG	119	-13.856	20.430	18.825	1.00	0.00
ATOM	2074	C15	LIG	119	-12.568	16.999	20.101	1.00	0.00
ATOM	2075	H10	LIG	119	-12.246	16.027	20.449	1.00	0.00
ATOM	2076	C16	LIG	119	-14.334	18.673	19.963	1.00	0.00
ATOM	2077	H11	LIG	119	-15.340	18.979	20.215	1.00	0.00
ATOM	2078	C17	LIG	119	-13.851	17.447	20.411	1.00	0.00

ATOM	2079	C18	LIG	119	-0.858	21.341	18.431	1.00	0.00
ATOM	2080	H12	LIG	119	-1.718	21.393	19.085	1.00	0.00
ATOM	2081	C19	LIG	119	0.097	21.515	16.202	1.00	0.00
ATOM	2082	H13	LIG	119	-0.039	21.676	15.140	1.00	0.00
ATOM	2083	C20	LIG	119	0.412	21.140	18.949	1.00	0.00
ATOM	2084	H14	LIG	119	0.544	21.016	20.018	1.00	0.00
ATOM	2085	C21	LIG	119	1.365	21.303	16.730	1.00	0.00
ATOM	2086	H15	LIG	119	2.227	21.295	16.074	1.00	0.00
ATOM	2087	C22	LIG	119	1.526	21.113	18.102	1.00	0.00
ATOM	2088	H16	LIG	119	2.515	20.960	18.516	1.00	0.00

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ATOM	2089	S1	LIG	120	8.140	-24.573	-19.691	1.00	0.00
ATOM	2090	S2	LIG	120	8.784	-18.132	-15.400	1.00	0.00
ATOM	2091	O1	LIG	120	11.657	-18.625	-19.743	1.00	0.00
ATOM	2092	H5	LIG	120	11.847	-17.730	-19.389	1.00	0.00
ATOM	2093	O2	LIG	120	9.253	-25.725	-19.601	1.00	0.00
ATOM	2094	H6	LIG	120	9.862	-25.523	-20.375	1.00	0.00
ATOM	2095	O3	LIG	120	8.113	-16.767	-15.919	1.00	0.00
ATOM	2096	H7	LIG	120	8.864	-16.285	-16.371	1.00	0.00
ATOM	2097	O4	LIG	120	7.290	-24.720	-18.528	1.00	0.00
ATOM	2098	O5	LIG	120	7.574	-24.531	-21.032	1.00	0.00
ATOM	2099	O6	LIG	120	7.720	-18.933	-14.830	1.00	0.00

ATOM	2100	O7	LIG	120	9.989	-17.831	-14.644	1.00	0.00
ATOM	2101	O8	LIG	120	12.656	-26.263	-27.308	1.00	0.00
ATOM	2102	O9	LIG	120	12.660	-28.177	-26.285	1.00	0.00
ATOM	2103	N1	LIG	120	11.687	-20.927	-21.063	1.00	0.00
ATOM	2104	H3	LIG	120	12.066	-19.995	-21.014	1.00	0.00
ATOM	2105	H4	LIG	120	11.940	-21.559	-21.807	1.00	0.00
ATOM	2106	N2	LIG	120	10.669	-23.285	-21.482	1.00	0.00
ATOM	2107	N3	LIG	120	10.882	-17.109	-17.852	1.00	0.00
ATOM	2108	N4	LIG	120	10.537	-24.537	-21.610	1.00	0.00
ATOM	2109	N5	LIG	120	10.407	-16.153	-17.180	1.00	0.00
ATOM	2110	N6	LIG	120	12.463	-26.970	-26.327	1.00	0.00
ATOM	2111	C1	LIG	120	10.260	-20.474	-19.143	1.00	0.00
ATOM	2112	C2	LIG	120	9.269	-20.972	-18.250	1.00	0.00
ATOM	2113	C3	LIG	120	10.712	-21.319	-20.224	1.00	0.00
ATOM	2114	C4	LIG	120	9.126	-23.057	-19.480	1.00	0.00
ATOM	2115	C5	LIG	120	8.714	-22.261	-18.448	1.00	0.00
ATOM	2116	H1	LIG	120	7.933	-22.611	-17.786	1.00	0.00
ATOM	2117	C6	LIG	120	10.738	-19.158	-18.912	1.00	0.00
ATOM	2118	C7	LIG	120	9.310	-18.918	-16.950	1.00	0.00
ATOM	2119	C8	LIG	120	8.829	-20.183	-17.159	1.00	0.00
ATOM	2120	H2	LIG	120	8.105	-20.593	-16.467	1.00	0.00
ATOM	2121	C9	LIG	120	10.144	-22.626	-20.392	1.00	0.00

ATOM	2122	C10	LIG	120	10.270	-18.356	-17.844	1.00	0.00
ATOM	2123	C11	LIG	120	11.024	-25.084	-22.813	1.00	0.00
ATOM	2124	C12	LIG	120	11.125	-14.943	-17.201	1.00	0.00
ATOM	2125	C13	LIG	120	11.254	-24.325	-23.972	1.00	0.00
ATOM	2126	H8	LIG	120	11.035	-23.266	-23.968	1.00	0.00
ATOM	2127	C14	LIG	120	11.239	-26.470	-22.827	1.00	0.00
ATOM	2128	H9	LIG	120	11.035	-27.051	-21.937	1.00	0.00
ATOM	2129	C15	LIG	120	11.725	-24.941	-25.120	1.00	0.00
ATOM	2130	H10	LIG	120	11.902	-24.383	-26.029	1.00	0.00
ATOM	2131	C16	LIG	120	11.718	-27.091	-23.972	1.00	0.00
ATOM	2132	H11	LIG	120	11.901	-28.156	-24.003	1.00	0.00
ATOM	2133	C17	LIG	120	11.959	-26.315	-25.102	1.00	0.00
ATOM	2134	C18	LIG	120	12.453	-14.824	-17.643	1.00	0.00
ATOM	2135	H12	LIG	120	12.992	-15.705	-17.968	1.00	0.00
ATOM	2136	C19	LIG	120	10.445	-13.817	-16.715	1.00	0.00
ATOM	2137	H13	LIG	120	9.429	-13.925	-16.353	1.00	0.00
ATOM	2138	C20	LIG	120	13.072	-13.584	-17.624	1.00	0.00
ATOM	2139	H14	LIG	120	14.100	-13.490	-17.955	1.00	0.00
ATOM	2140	C21	LIG	120	11.070	-12.576	-16.710	1.00	0.00
ATOM	2141	H15	LIG	120	10.539	-11.707	-16.344	1.00	0.00
ATOM	2142	C22	LIG	120	12.383	-12.456	-17.166	1.00	0.00
ATOM	2143	H16	LIG	120	12.876	-11.491	-17.151	1.00	0.00

TER

ATOM	2144	S1	LIG	121	-9.771	-25.003	14.510	1.00	0.00
ATOM	2145	S2	LIG	121	-4.513	-22.885	19.817	1.00	0.00
ATOM	2146	O1	LIG	121	-8.561	-25.867	21.257	1.00	0.00
ATOM	2147	H5	LIG	121	-8.000	-25.765	22.055	1.00	0.00
ATOM	2148	O2	LIG	121	-11.188	-24.253	14.424	1.00	0.00
ATOM	2149	H6	LIG	121	-11.798	-24.846	14.958	1.00	0.00
ATOM	2150	O3	LIG	121	-3.445	-23.963	20.345	1.00	0.00
ATOM	2151	H7	LIG	121	-3.848	-24.308	21.193	1.00	0.00
ATOM	2152	O4	LIG	121	-8.802	-24.142	13.864	1.00	0.00
ATOM	2153	O5	LIG	121	-9.919	-26.395	14.110	1.00	0.00
ATOM	2154	O6	LIG	121	-4.042	-22.423	18.527	1.00	0.00
ATOM	2155	O7	LIG	121	-4.832	-21.947	20.883	1.00	0.00
ATOM	2156	O8	LIG	121	-17.019	-30.130	16.075	1.00	0.00
ATOM	2157	O9	LIG	121	-17.759	-28.615	14.708	1.00	0.00
ATOM	2158	N1	LIG	121	-10.528	-26.355	19.544	1.00	0.00
ATOM	2159	H3	LIG	121	-10.198	-26.489	20.486	1.00	0.00
ATOM	2160	H4	LIG	121	-11.392	-26.768	19.227	1.00	0.00
ATOM	2161	N2	LIG	121	-11.445	-26.306	17.109	1.00	0.00
ATOM	2162	N3	LIG	121	-6.330	-24.831	21.908	1.00	0.00
ATOM	2163	N4	LIG	121	-12.170	-26.077	16.097	1.00	0.00
ATOM	2164	N5	LIG	121	-5.149	-24.646	22.309	1.00	0.00

ATOM	2165	N6	LIG	121	-16.910	-29.077	15.458	1.00	0.00
ATOM	2166	C1	LIG	121	-8.489	-25.154	18.974	1.00	0.00
ATOM	2167	C2	LIG	121	-7.750	-24.471	17.966	1.00	0.00
ATOM	2168	C3	LIG	121	-9.758	-25.751	18.624	1.00	0.00
ATOM	2169	C4	LIG	121	-9.430	-24.994	16.298	1.00	0.00
ATOM	2170	C5	LIG	121	-8.239	-24.416	16.637	1.00	0.00
ATOM	2171	H1	LIG	121	-7.648	-23.928	15.873	1.00	0.00
ATOM	2172	C6	LIG	121	-7.918	-25.209	20.271	1.00	0.00
ATOM	2173	C7	LIG	121	-5.990	-23.905	19.545	1.00	0.00
ATOM	2174	C8	LIG	121	-6.520	-23.845	18.284	1.00	0.00
ATOM	2175	H2	LIG	121	-5.991	-23.296	17.515	1.00	0.00
ATOM	2176	C9	LIG	121	-10.237	-25.665	17.274	1.00	0.00
ATOM	2177	C10	LIG	121	-6.670	-24.617	20.578	1.00	0.00
ATOM	2178	C11	LIG	121	-13.331	-26.866	15.985	1.00	0.00
ATOM	2179	C12	LIG	121	-4.909	-24.831	23.684	1.00	0.00
ATOM	2180	C13	LIG	121	-13.507	-28.087	16.659	1.00	0.00
ATOM	2181	H8	LIG	121	-12.713	-28.468	17.287	1.00	0.00
ATOM	2182	C14	LIG	121	-14.324	-26.395	15.115	1.00	0.00
ATOM	2183	H9	LIG	121	-14.169	-25.466	14.581	1.00	0.00
ATOM	2184	C15	LIG	121	-14.676	-28.808	16.487	1.00	0.00
ATOM	2185	H10	LIG	121	-14.835	-29.754	16.985	1.00	0.00
ATOM	2186	C16	LIG	121	-15.501	-27.111	14.945	1.00	0.00



ATOM	2187	H11	LIG	121	-16.285	-26.762	14.287	1.00	0.00
ATOM	2188	C17	LIG	121	-15.662	-28.306	15.639	1.00	0.00
ATOM	2189	C18	LIG	121	-5.920	-24.892	24.658	1.00	0.00
ATOM	2190	H12	LIG	121	-6.954	-24.766	24.367	1.00	0.00
ATOM	2191	C19	LIG	121	-3.562	-24.926	24.064	1.00	0.00
ATOM	2192	H13	LIG	121	-2.790	-24.851	23.308	1.00	0.00
ATOM	2193	C20	LIG	121	-5.577	-25.078	25.988	1.00	0.00
ATOM	2194	H14	LIG	121	-6.354	-25.115	26.743	1.00	0.00
ATOM	2195	C21	LIG	121	-3.230	-25.123	25.399	1.00	0.00
ATOM	2196	H15	LIG	121	-2.190	-25.205	25.688	1.00	0.00
ATOM	2197	C22	LIG	121	-4.235	-25.201	26.363	1.00	0.00
ATOM	2198	H16	LIG	121	-3.976	-25.342	27.406	1.00	0.00
TER									
ATOM	2199	S1	LIG	122	-16.117	-18.440	-16.385	1.00	0.00
ATOM	2200	S2	LIG	122	-8.784	-17.707	-13.936	1.00	0.00
ATOM	2201	O1	LIG	122	-11.120	-13.669	-16.301	1.00	0.00
ATOM	2202	H5	LIG	122	-10.234	-13.350	-16.028	1.00	0.00
ATOM	2203	O2	LIG	122	-16.435	-18.697	-17.937	1.00	0.00
ATOM	2204	H6	LIG	122	-16.630	-17.777	-18.290	1.00	0.00
ATOM	2205	O3	LIG	122	-8.475	-16.842	-12.617	1.00	0.00
ATOM	2206	H7	LIG	122	-8.221	-15.942	-12.973	1.00	0.00
ATOM	2207	O4	LIG	122	-15.700	-19.710	-15.827	1.00	0.00

ATOM	2208	O5	LIG	122	-17.194	-17.673	-15.776	1.00	0.00
ATOM	2209	O6	LIG	122	-9.267	-18.997	-13.488	1.00	0.00
ATOM	2210	O7	LIG	122	-7.671	-17.601	-14.866	1.00	0.00
ATOM	2211	O8	LIG	122	-20.924	-12.028	-20.514	1.00	0.00
ATOM	2212	O9	LIG	122	-21.467	-13.835	-21.587	1.00	0.00
ATOM	2213	N1	LIG	122	-13.508	-13.981	-17.415	1.00	0.00
ATOM	2214	H3	LIG	122	-12.744	-13.344	-17.259	1.00	0.00
ATOM	2215	H4	LIG	122	-14.344	-13.690	-17.899	1.00	0.00
ATOM	2216	N2	LIG	122	-15.665	-15.402	-17.734	1.00	0.00
ATOM	2217	N3	LIG	122	-9.099	-14.510	-15.003	1.00	0.00
ATOM	2218	N4	LIG	122	-16.610	-16.059	-18.260	1.00	0.00
ATOM	2219	N5	LIG	122	-8.177	-14.658	-14.156	1.00	0.00
ATOM	2220	N6	LIG	122	-20.777	-13.213	-20.791	1.00	0.00
ATOM	2221	C1	LIG	122	-12.375	-15.699	-16.113	1.00	0.00
ATOM	2222	C2	LIG	122	-12.417	-17.025	-15.597	1.00	0.00
ATOM	2223	C3	LIG	122	-13.513	-15.202	-16.852	1.00	0.00
ATOM	2224	C4	LIG	122	-14.660	-17.351	-16.457	1.00	0.00
ATOM	2225	C5	LIG	122	-13.574	-17.823	-15.774	1.00	0.00
ATOM	2226	H1	LIG	122	-13.608	-18.815	-15.342	1.00	0.00
ATOM	2227	C6	LIG	122	-11.203	-14.941	-15.858	1.00	0.00
ATOM	2228	C7	LIG	122	-10.180	-16.808	-14.669	1.00	0.00
ATOM	2229	C8	LIG	122	-11.304	-17.555	-14.899	1.00	0.00

ATOM	2230	H2	LIG	122	-11.338	-18.578	-14.548	1.00	0.00
ATOM	2231	C9	LIG	122	-14.666	-16.038	-17.031	1.00	0.00
ATOM	2232	C10	LIG	122	-10.107	-15.458	-15.128	1.00	0.00
ATOM	2233	C11	LIG	122	-17.626	-15.294	-18.864	1.00	0.00
ATOM	2234	C12	LIG	122	-7.166	-13.678	-14.140	1.00	0.00
ATOM	2235	C13	LIG	122	-17.849	-13.937	-18.576	1.00	0.00
ATOM	2236	H8	LIG	122	-17.231	-13.439	-17.842	1.00	0.00
ATOM	2237	C14	LIG	122	-18.465	-15.968	-19.763	1.00	0.00
ATOM	2238	H9	LIG	122	-18.302	-17.020	-19.959	1.00	0.00
ATOM	2239	C15	LIG	122	-18.878	-13.257	-19.207	1.00	0.00
ATOM	2240	H10	LIG	122	-19.078	-12.215	-18.998	1.00	0.00
ATOM	2241	C16	LIG	122	-19.493	-15.290	-20.403	1.00	0.00
ATOM	2242	H11	LIG	122	-20.145	-15.786	-21.107	1.00	0.00
ATOM	2243	C17	LIG	122	-19.681	-13.941	-20.119	1.00	0.00
ATOM	2244	C18	LIG	122	-6.950	-12.754	-15.177	1.00	0.00
ATOM	2245	H12	LIG	122	-7.565	-12.791	-16.066	1.00	0.00
ATOM	2246	C19	LIG	122	-6.328	-13.679	-13.016	1.00	0.00
ATOM	2247	H13	LIG	122	-6.487	-14.413	-12.235	1.00	0.00
ATOM	2248	C20	LIG	122	-5.925	-11.827	-15.064	1.00	0.00
ATOM	2249	H14	LIG	122	-5.749	-11.119	-15.865	1.00	0.00
ATOM	2250	C21	LIG	122	-5.310	-12.739	-12.907	1.00	0.00
ATOM	2251	H15	LIG	122	-4.671	-12.736	-12.033	1.00	0.00

ATOM	2252	C22	LIG	122	-5.108	-11.810	-13.928	1.00	0.00
ATOM	2253	H16	LIG	122	-4.307	-11.085	-13.850	1.00	0.00
TER									
ATOM	2254	S1	LIG	123	-21.049	8.985	10.753	1.00	0.00
ATOM	2255	S2	LIG	123	-27.312	13.422	9.570	1.00	0.00
ATOM	2256	O1	LIG	123	-24.147	14.465	13.601	1.00	0.00
ATOM	2257	H5	LIG	123	-24.832	15.167	13.603	1.00	0.00
ATOM	2258	O2	LIG	123	-21.058	7.853	11.889	1.00	0.00
ATOM	2259	H6	LIG	123	-20.625	8.306	12.674	1.00	0.00
ATOM	2260	O3	LIG	123	-27.131	14.898	8.959	1.00	0.00
ATOM	2261	H7	LIG	123	-27.124	15.493	9.764	1.00	0.00
ATOM	2262	O4	LIG	123	-21.775	8.447	9.620	1.00	0.00
ATOM	2263	O5	LIG	123	-19.705	9.522	10.595	1.00	0.00
ATOM	2264	O6	LIG	123	-27.218	12.494	8.461	1.00	0.00
ATOM	2265	O7	LIG	123	-28.450	13.402	10.476	1.00	0.00
ATOM	2266	O8	LIG	123	-15.052	10.058	17.397	1.00	0.00
ATOM	2267	O9	LIG	123	-15.288	7.903	17.274	1.00	0.00
ATOM	2268	N1	LIG	123	-22.177	12.795	14.211	1.00	0.00
ATOM	2269	H3	LIG	123	-22.661	13.638	14.476	1.00	0.00
ATOM	2270	H4	LIG	123	-21.370	12.470	14.721	1.00	0.00
ATOM	2271	N2	LIG	123	-20.671	10.773	13.567	1.00	0.00
ATOM	2272	N3	LIG	123	-26.125	15.213	12.186	1.00	0.00

ATOM	2273	N4	LIG	123	-20.078	9.655	13.587	1.00	0.00
ATOM	2274	N5	LIG	123	-26.915	15.872	11.456	1.00	0.00
ATOM	2275	N6	LIG	123	-15.615	9.048	16.992	1.00	0.00
ATOM	2276	C1	LIG	123	-23.611	12.558	12.258	1.00	0.00
ATOM	2277	C2	LIG	123	-23.932	11.794	11.100	1.00	0.00
ATOM	2278	C3	LIG	123	-22.491	12.151	13.074	1.00	0.00
ATOM	2279	C4	LIG	123	-22.065	10.299	11.500	1.00	0.00
ATOM	2280	C5	LIG	123	-23.136	10.677	10.740	1.00	0.00
ATOM	2281	H1	LIG	123	-23.367	10.130	9.835	1.00	0.00
ATOM	2282	C6	LIG	123	-24.422	13.689	12.533	1.00	0.00
ATOM	2283	C7	LIG	123	-25.819	13.238	10.585	1.00	0.00
ATOM	2284	C8	LIG	123	-25.045	12.145	10.298	1.00	0.00
ATOM	2285	H2	LIG	123	-25.298	11.530	9.444	1.00	0.00
ATOM	2286	C9	LIG	123	-21.713	11.006	12.695	1.00	0.00
ATOM	2287	C10	LIG	123	-25.511	14.062	11.709	1.00	0.00
ATOM	2288	C11	LIG	123	-18.965	9.569	14.445	1.00	0.00
ATOM	2289	C12	LIG	123	-27.537	16.991	12.041	1.00	0.00
ATOM	2290	C13	LIG	123	-18.272	10.691	14.931	1.00	0.00
ATOM	2291	H8	LIG	123	-18.582	11.682	14.628	1.00	0.00
ATOM	2292	C14	LIG	123	-18.529	8.278	14.775	1.00	0.00
ATOM	2293	H9	LIG	123	-19.054	7.419	14.376	1.00	0.00
ATOM	2294	C15	LIG	123	-17.179	10.520	15.764	1.00	0.00

ATOM	2295	H10	LIG	123	-16.621	11.365	16.145	1.00	0.00
ATOM	2296	C16	LIG	123	-17.439	8.101	15.615	1.00	0.00
ATOM	2297	H11	LIG	123	-17.092	7.116	15.892	1.00	0.00
ATOM	2298	C17	LIG	123	-16.782	9.228	16.102	1.00	0.00
ATOM	2299	C18	LIG	123	-27.584	17.230	13.425	1.00	0.00
ATOM	2300	H12	LIG	123	-27.148	16.515	14.109	1.00	0.00
ATOM	2301	C19	LIG	123	-28.159	17.881	11.154	1.00	0.00
ATOM	2302	H13	LIG	123	-28.139	17.673	10.091	1.00	0.00
ATOM	2303	C20	LIG	123	-28.222	18.365	13.901	1.00	0.00
ATOM	2304	H14	LIG	123	-28.270	18.548	14.968	1.00	0.00
ATOM	2305	C21	LIG	123	-28.788	19.021	11.640	1.00	0.00
ATOM	2306	H15	LIG	123	-29.259	19.711	10.952	1.00	0.00
ATOM	2307	C22	LIG	123	-28.819	19.267	13.013	1.00	0.00
ATOM	2308	H16	LIG	123	-29.319	20.149	13.394	1.00	0.00
TER									
ATOM	2309	S1	LIG	124	-15.611	-25.205	7.386	1.00	0.00
ATOM	2310	S2	LIG	124	-11.234	-25.150	0.971	1.00	0.00
ATOM	2311	O1	LIG	124	-13.234	-20.659	2.756	1.00	0.00
ATOM	2312	H5	LIG	124	-12.679	-20.423	1.983	1.00	0.00
ATOM	2313	O2	LIG	124	-17.210	-25.124	7.280	1.00	0.00
ATOM	2314	H6	LIG	124	-17.403	-24.146	7.410	1.00	0.00
ATOM	2315	O3	LIG	124	-9.730	-24.588	1.046	1.00	0.00

ATOM	2316	H7	LIG	124	-9.812	-23.638	0.741	1.00	0.00
ATOM	2317	O4	LIG	124	-15.240	-26.572	7.082	1.00	0.00
ATOM	2318	O5	LIG	124	-15.160	-24.560	8.611	1.00	0.00
ATOM	2319	O6	LIG	124	-11.206	-26.496	1.508	1.00	0.00
ATOM	2320	O7	LIG	124	-11.797	-24.874	-0.341	1.00	0.00
ATOM	2321	O8	LIG	124	-19.427	-17.973	11.182	1.00	0.00
ATOM	2322	O9	LIG	124	-20.956	-19.503	11.363	1.00	0.00
ATOM	2323	N1	LIG	124	-14.973	-20.683	4.760	1.00	0.00
ATOM	2324	H3	LIG	124	-14.494	-20.108	4.086	1.00	0.00
ATOM	2325	H4	LIG	124	-15.587	-20.280	5.451	1.00	0.00
ATOM	2326	N2	LIG	124	-16.133	-21.960	6.708	1.00	0.00
ATOM	2327	N3	LIG	124	-11.657	-21.795	1.113	1.00	0.00
ATOM	2328	N4	LIG	124	-17.012	-22.474	7.460	1.00	0.00
ATOM	2329	N5	LIG	124	-10.649	-22.136	0.437	1.00	0.00
ATOM	2330	N6	LIG	124	-19.896	-19.076	10.926	1.00	0.00
ATOM	2331	C1	LIG	124	-13.807	-22.657	3.943	1.00	0.00
ATOM	2332	C2	LIG	124	-13.607	-24.061	4.070	1.00	0.00
ATOM	2333	C3	LIG	124	-14.697	-21.994	4.868	1.00	0.00
ATOM	2334	C4	LIG	124	-15.072	-24.154	6.000	1.00	0.00
ATOM	2335	C5	LIG	124	-14.243	-24.781	5.112	1.00	0.00
ATOM	2336	H1	LIG	124	-14.050	-25.840	5.222	1.00	0.00
ATOM	2337	C6	LIG	124	-13.103	-21.994	2.906	1.00	0.00

ATOM	2338	C7	LIG	124	-12.103	-24.089	2.160	1.00	0.00
ATOM	2339	C8	LIG	124	-12.768	-24.748	3.159	1.00	0.00
ATOM	2340	H2	LIG	124	-12.659	-25.822	3.246	1.00	0.00
ATOM	2341	C9	LIG	124	-15.341	-22.750	5.903	1.00	0.00
ATOM	2342	C10	LIG	124	-12.235	-22.674	2.019	1.00	0.00
ATOM	2343	C11	LIG	124	-17.689	-21.578	8.311	1.00	0.00
ATOM	2344	C12	LIG	124	-10.166	-21.202	-0.499	1.00	0.00
ATOM	2345	C13	LIG	124	-17.194	-20.308	8.650	1.00	0.00
ATOM	2346	H8	LIG	124	-16.236	-19.988	8.261	1.00	0.00
ATOM	2347	C14	LIG	124	-18.895	-22.032	8.863	1.00	0.00
ATOM	2348	H9	LIG	124	-19.256	-23.022	8.616	1.00	0.00
ATOM	2349	C15	LIG	124	-17.915	-19.490	9.503	1.00	0.00
ATOM	2350	H10	LIG	124	-17.555	-18.511	9.787	1.00	0.00
ATOM	2351	C16	LIG	124	-19.626	-21.214	9.713	1.00	0.00
ATOM	2352	H11	LIG	124	-20.564	-21.538	10.141	1.00	0.00
ATOM	2353	C17	LIG	124	-19.127	-19.951	10.016	1.00	0.00
ATOM	2354	C18	LIG	124	-10.894	-20.085	-0.944	1.00	0.00
ATOM	2355	H12	LIG	124	-11.901	-19.922	-0.582	1.00	0.00
ATOM	2356	C19	LIG	124	-8.887	-21.455	-1.016	1.00	0.00
ATOM	2357	H13	LIG	124	-8.345	-22.334	-0.685	1.00	0.00
ATOM	2358	C20	LIG	124	-10.327	-19.224	-1.870	1.00	0.00
ATOM	2359	H14	LIG	124	-10.890	-18.367	-2.222	1.00	0.00



ATOM	2360	C21	LIG	124	-8.324	-20.579	-1.936	1.00	0.00
ATOM	2361	H15	LIG	124	-7.332	-20.773	-2.325	1.00	0.00
ATOM	2362	C22	LIG	124	-9.040	-19.462	-2.363	1.00	0.00
ATOM	2363	H16	LIG	124	-8.607	-18.785	-3.090	1.00	0.00
TER									
END									

**Table G:** The number of atoms present in the system of BE-SIs

ATOM	1	N	GLU	1	4.907	18.557	-2.106	1.00	0.00
ATOM	2	H1	GLU	1	5.217	19.172	-2.844	1.00	0.00
ATOM	3	H2	GLU	1	5.314	17.644	-2.252	1.00	0.00
ATOM	4	H3	GLU	1	5.027	19.027	-1.220	1.00	0.00
ATOM	5	CA	GLU	1	3.437	18.361	-2.252	1.00	0.00
ATOM	6	HA	GLU	1	3.208	17.304	-2.392	1.00	0.00
ATOM	7	CB	GLU	1	2.730	18.851	-0.985	1.00	0.00
ATOM	8	HB2	GLU	1	3.151	18.345	-0.116	1.00	0.00
ATOM	9	HB3	GLU	1	2.873	19.926	-0.883	1.00	0.00
ATOM	10	CG	GLU	1	1.232	18.542	-1.080	1.00	0.00
ATOM	11	HG2	GLU	1	0.835	18.986	-1.992	1.00	0.00
ATOM	12	HG3	GLU	1	1.088	17.462	-1.109	1.00	0.00
ATOM	13	CD	GLU	1	0.500	19.120	0.127	1.00	0.00
ATOM	14	OE1	GLU	1	0.629	18.554	1.201	1.00	0.00

ATOM	15	OE2	GLU	1	-0.182	20.118	-0.040	1.00	0.00
ATOM	16	C	GLU	1	2.941	19.142	-3.467	1.00	0.00
ATOM	17	O	GLU	1	2.796	20.364	-3.414	1.00	0.00
ATOM	18	N	ALA	2	2.681	18.425	-4.558	1.00	0.00
ATOM	19	H	ALA	2	2.833	17.426	-4.560	1.00	0.00
ATOM	20	CA	ALA	2	2.197	19.055	-5.783	1.00	0.00
ATOM	21	HA	ALA	2	2.853	19.878	-6.066	1.00	0.00
ATOM	22	CB	ALA	2	2.173	18.035	-6.923	1.00	0.00
ATOM	23	HB1	ALA	2	1.513	17.209	-6.658	1.00	0.00
ATOM	24	HB2	ALA	2	1.809	18.513	-7.832	1.00	0.00
ATOM	25	HB3	ALA	2	3.181	17.654	-7.092	1.00	0.00
ATOM	26	C	ALA	2	0.796	19.623	-5.578	1.00	0.00
ATOM	27	O	ALA	2	0.003	19.080	-4.810	1.00	0.00
ATOM	28	N	GLU	3	0.501	20.719	-6.270	1.00	0.00
ATOM	29	H	GLU	3	1.194	21.146	-6.867	1.00	0.00
ATOM	30	CA	GLU	3	-0.808	21.357	-6.162	1.00	0.00
ATOM	31	HA	GLU	3	-1.019	21.600	-5.120	1.00	0.00
ATOM	32	CB	GLU	3	-0.833	22.655	-6.984	1.00	0.00
ATOM	33	HB2	GLU	3	-1.728	23.221	-6.726	1.00	0.00
ATOM	34	HB3	GLU	3	0.052	23.245	-6.743	1.00	0.00
ATOM	35	CG	GLU	3	-0.843	22.338	-8.487	1.00	0.00
ATOM	36	HG2	GLU	3	-1.724	21.740	-8.719	1.00	0.00

ATOM	37	HG3	GLU	3	-0.882	23.273	-9.045	1.00	0.00
ATOM	38	CD	GLU	3	0.415	21.563	-8.879	1.00	0.00
ATOM	39	OE1	GLU	3	1.500	22.068	-8.641	1.00	0.00
ATOM	40	OE2	GLU	3	0.274	20.473	-9.411	1.00	0.00
ATOM	41	C	GLU	3	-1.911	20.416	-6.645	1.00	0.00
ATOM	42	O	GLU	3	-3.069	20.547	-6.246	1.00	0.00
ATOM	43	N	ALA	4	-1.541	19.472	-7.508	1.00	0.00
ATOM	44	H	ALA	4	-0.585	19.424	-7.831	1.00	0.00
ATOM	45	CA	ALA	4	-2.503	18.513	-8.046	1.00	0.00
ATOM	46	HA	ALA	4	-3.400	19.042	-8.366	1.00	0.00
ATOM	47	CB	ALA	4	-1.906	17.788	-9.254	1.00	0.00
ATOM	48	HB1	ALA	4	-1.011	17.246	-8.947	1.00	0.00
ATOM	49	HB2	ALA	4	-2.637	17.085	-9.654	1.00	0.00
ATOM	50	HB3	ALA	4	-1.644	18.515	-10.022	1.00	0.00
ATOM	51	C	ALA	4	-2.917	17.503	-6.987	1.00	0.00
ATOM	52	O	ALA	4	-3.769	16.647	-7.230	1.00	0.00
ATOM	53	N	GLN	5	-2.318	17.618	-5.811	1.00	0.00
ATOM	54	H	GLN	5	-1.624	18.337	-5.664	1.00	0.00
ATOM	55	CA	GLN	5	-2.632	16.726	-4.705	1.00	0.00
ATOM	56	HA	GLN	5	-2.265	15.719	-4.908	1.00	0.00
ATOM	57	CB	GLN	5	-1.953	17.247	-3.443	1.00	0.00
ATOM	58	HB2	GLN	5	-0.877	17.301	-3.610	1.00	0.00

ATOM	59	HB3	GLN	5	-2.335	18.242	-3.214	1.00	0.00
ATOM	60	CG	GLN	5	-2.240	16.307	-2.267	1.00	0.00
ATOM	61	HG2	GLN	5	-3.312	16.131	-2.182	1.00	0.00
ATOM	62	HG3	GLN	5	-1.727	15.357	-2.420	1.00	0.00
ATOM	63	CD	GLN	5	-1.743	16.925	-0.964	1.00	0.00
ATOM	64	OE1	GLN	5	-2.131	18.041	-0.617	1.00	0.00
ATOM	65	NE2	GLN	5	-0.905	16.262	-0.216	1.00	0.00
ATOM	66	HE21	GLN	5	-0.573	16.667	0.648	1.00	0.00
ATOM	67	HE22	GLN	5	-0.591	15.346	-0.504	1.00	0.00
ATOM	68	C	GLN	5	-4.141	16.667	-4.480	1.00	0.00
ATOM	69	O	GLN	5	-4.691	15.614	-4.158	1.00	0.00
ATOM	70	N	GLU	6	-4.800	17.812	-4.647	1.00	0.00
ATOM	71	H	GLU	6	-4.298	18.656	-4.882	1.00	0.00
ATOM	72	CA	GLU	6	-6.244	17.895	-4.457	1.00	0.00
ATOM	73	HA	GLU	6	-6.498	17.703	-3.414	1.00	0.00
ATOM	74	CB	GLU	6	-6.734	19.299	-4.831	1.00	0.00
ATOM	75	HB2	GLU	6	-7.800	19.375	-4.620	1.00	0.00
ATOM	76	HB3	GLU	6	-6.193	20.038	-4.239	1.00	0.00
ATOM	77	CG	GLU	6	-6.488	19.559	-6.322	1.00	0.00
ATOM	78	HG2	GLU	6	-5.454	19.311	-6.563	1.00	0.00
ATOM	79	HG3	GLU	6	-7.158	18.933	-6.911	1.00	0.00
ATOM	80	CD	GLU	6	-6.748	21.028	-6.645	1.00	0.00

ATOM	81	OE1	GLU	6	-7.907	21.406	-6.701	1.00	0.00
ATOM	82	OE2	GLU	6	-5.784	21.752	-6.832	1.00	0.00
ATOM	83	C	GLU	6	-6.972	16.845	-5.296	1.00	0.00
ATOM	84	O	GLU	6	-7.888	16.183	-4.809	1.00	0.00
ATOM	85	N	GLU	7	-6.550	16.684	-6.551	1.00	0.00
ATOM	86	H	GLU	7	-5.802	17.255	-6.919	1.00	0.00
ATOM	87	CA	GLU	7	-7.162	15.696	-7.431	1.00	0.00
ATOM	88	HA	GLU	7	-8.212	15.941	-7.589	1.00	0.00
ATOM	89	CB	GLU	7	-6.452	15.680	-8.791	1.00	0.00
ATOM	90	HB2	GLU	7	-6.649	16.616	-9.312	1.00	0.00
ATOM	91	HB3	GLU	7	-5.378	15.569	-8.637	1.00	0.00
ATOM	92	CG	GLU	7	-6.971	14.506	-9.634	1.00	0.00
ATOM	93	HG2	GLU	7	-7.987	14.266	-9.319	1.00	0.00
ATOM	94	HG3	GLU	7	-6.974	14.791	-10.686	1.00	0.00
ATOM	95	CD	GLU	7	-6.077	13.283	-9.441	1.00	0.00
ATOM	96	OE1	GLU	7	-4.907	13.368	-9.777	1.00	0.00
ATOM	97	OE2	GLU	7	-6.576	12.277	-8.964	1.00	0.00
ATOM	98	C	GLU	7	-7.072	14.321	-6.795	1.00	0.00
ATOM	99	O	GLU	7	-8.012	13.528	-6.856	1.00	0.00
ATOM	100	N	CYX	8	-5.919	14.048	-6.193	1.00	0.00
ATOM	101	H	CYX	8	-5.169	14.725	-6.185	1.00	0.00
ATOM	102	CA	CYX	8	-5.693	12.767	-5.557	1.00	0.00

ATOM	103	HA	CYX	8	-5.950	11.959	-6.242	1.00	0.00
ATOM	104	CB	CYX	8	-4.218	12.628	-5.168	1.00	0.00
ATOM	105	HB2	CYX	8	-3.967	13.378	-4.418	1.00	0.00
ATOM	106	HB3	CYX	8	-4.041	11.633	-4.759	1.00	0.00
ATOM	107	SG	CYX	8	-3.181	12.867	-6.631	1.00	0.00
ATOM	108	C	CYX	8	-6.563	12.618	-4.316	1.00	0.00
ATOM	109	O	CYX	8	-7.350	11.678	-4.214	1.00	0.00
ATOM	110	N	ARG	9	-6.414	13.552	-3.380	1.00	0.00
ATOM	111	H	ARG	9	-5.739	14.293	-3.504	1.00	0.00
ATOM	112	CA	ARG	9	-7.187	13.519	-2.142	1.00	0.00
ATOM	113	HA	ARG	9	-6.921	12.638	-1.557	1.00	0.00
ATOM	114	CB	ARG	9	-6.886	14.768	-1.310	1.00	0.00
ATOM	115	HB2	ARG	9	-5.810	14.848	-1.154	1.00	0.00
ATOM	116	HB3	ARG	9	-7.242	15.650	-1.840	1.00	0.00
ATOM	117	CG	ARG	9	-7.592	14.668	0.047	1.00	0.00
ATOM	118	HG2	ARG	9	-8.671	14.641	-0.106	1.00	0.00
ATOM	119	HG3	ARG	9	-7.275	13.757	0.555	1.00	0.00
ATOM	120	CD	ARG	9	-7.229	15.882	0.904	1.00	0.00
ATOM	121	HD2	ARG	9	-7.609	15.748	1.917	1.00	0.00
ATOM	122	HD3	ARG	9	-6.146	16.003	0.936	1.00	0.00
ATOM	123	NE	ARG	9	-7.819	17.093	0.339	1.00	0.00
ATOM	124	HE	ARG	9	-8.493	17.026	-0.410	1.00	0.00

ATOM	125	CZ	ARG	9	-7.486	18.302	0.789	1.00	0.00
ATOM	126	NH1	ARG	9	-6.620	18.427	1.758	1.00	0.00
ATOM	127	HH11	ARG	9	-6.202	17.603	2.167	1.00	0.00
ATOM	128	HH12	ARG	9	-6.372	19.346	2.094	1.00	0.00
ATOM	129	NH2	ARG	9	-8.029	19.364	0.262	1.00	0.00
ATOM	130	HH21	ARG	9	-8.700	19.265	-0.486	1.00	0.00
ATOM	131	HH22	ARG	9	-7.775	20.279	0.605	1.00	0.00
ATOM	132	C	ARG	9	-8.682	13.442	-2.434	1.00	0.00
ATOM	133	O	ARG	9	-9.405	12.674	-1.802	1.00	0.00
ATOM	134	N	GLU	10	-9.140	14.240	-3.395	1.00	0.00
ATOM	135	H	GLU	10	-8.517	14.870	-3.880	1.00	0.00
ATOM	136	CA	GLU	10	-10.553	14.246	-3.760	1.00	0.00
ATOM	137	HA	GLU	10	-11.162	14.519	-2.898	1.00	0.00
ATOM	138	CB	GLU	10	-10.796	15.268	-4.875	1.00	0.00
ATOM	139	HB2	GLU	10	-10.536	16.263	-4.515	1.00	0.00
ATOM	140	HB3	GLU	10	-10.173	15.019	-5.734	1.00	0.00
ATOM	141	CG	GLU	10	-12.273	15.243	-5.289	1.00	0.00
ATOM	142	HG2	GLU	10	-12.880	14.949	-4.433	1.00	0.00
ATOM	143	HG3	GLU	10	-12.567	16.239	-5.618	1.00	0.00
ATOM	144	CD	GLU	10	-12.484	14.247	-6.429	1.00	0.00
ATOM	145	OE1	GLU	10	-11.834	14.395	-7.451	1.00	0.00
ATOM	146	OE2	GLU	10	-13.293	13.348	-6.262	1.00	0.00

ATOM	147	C	GLU	10	-10.990	12.862	-4.230	1.00	0.00
ATOM	148	O	GLU	10	-12.015	12.338	-3.790	1.00	0.00
ATOM	149	N	GLN	11	-10.203	12.283	-5.133	1.00	0.00
ATOM	150	H	GLN	11	-9.392	12.772	-5.483	1.00	0.00
ATOM	151	CA	GLN	11	-10.503	10.963	-5.677	1.00	0.00
ATOM	152	HA	GLN	11	-11.481	10.968	-6.158	1.00	0.00
ATOM	153	CB	GLN	11	-9.446	10.579	-6.719	1.00	0.00
ATOM	154	HB2	GLN	11	-9.304	11.406	-7.414	1.00	0.00
ATOM	155	HB3	GLN	11	-8.503	10.361	-6.216	1.00	0.00
ATOM	156	CG	GLN	11	-9.912	9.339	-7.490	1.00	0.00
ATOM	157	HG2	GLN	11	-9.988	8.488	-6.812	1.00	0.00
ATOM	158	HG3	GLN	11	-10.884	9.529	-7.944	1.00	0.00
ATOM	159	CD	GLN	11	-8.915	8.994	-8.596	1.00	0.00
ATOM	160	OE1	GLN	11	-7.981	9.754	-8.858	1.00	0.00
ATOM	161	NE2	GLN	11	-9.060	7.883	-9.265	1.00	0.00
ATOM	162	HE21	GLN	11	-8.405	7.648	-9.997	1.00	0.00
ATOM	163	HE22	GLN	11	-9.826	7.262	-9.047	1.00	0.00
ATOM	164	C	GLN	11	-10.562	9.903	-4.576	1.00	0.00
ATOM	165	O	GLN	11	-11.337	8.951	-4.668	1.00	0.00
ATOM	166	N	MET	12	-9.731	10.061	-3.544	1.00	0.00
ATOM	167	H	MET	12	-9.087	10.839	-3.518	1.00	0.00
ATOM	168	CA	MET	12	-9.695	9.093	-2.445	1.00	0.00



ATOM	169	HA	MET	12	-9.313	8.137	-2.805	1.00	0.00
ATOM	170	CB	MET	12	-8.781	9.593	-1.324	1.00	0.00
ATOM	171	HB2	MET	12	-9.068	10.606	-1.043	1.00	0.00
ATOM	172	HB3	MET	12	-8.872	8.937	-0.458	1.00	0.00
ATOM	173	CG	MET	12	-7.333	9.591	-1.814	1.00	0.00
ATOM	174	HG2	MET	12	-7.048	8.581	-2.110	1.00	0.00
ATOM	175	HG3	MET	12	-7.234	10.261	-2.668	1.00	0.00
ATOM	176	SD	MET	12	-6.240	10.152	-0.489	1.00	0.00
ATOM	177	CE	MET	12	-4.792	10.477	-1.523	1.00	0.00
ATOM	178	HE1	MET	12	-5.041	11.229	-2.271	1.00	0.00
ATOM	179	HE2	MET	12	-3.974	10.841	-0.900	1.00	0.00
ATOM	180	HE3	MET	12	-4.486	9.556	-2.021	1.00	0.00
ATOM	181	C	MET	12	-11.092	8.830	-1.888	1.00	0.00
ATOM	182	O	MET	12	-11.433	7.686	-1.589	1.00	0.00
ATOM	183	N	GLN	13	-11.902	9.881	-1.757	1.00	0.00
ATOM	184	H	GLN	13	-11.594	10.813	-1.993	1.00	0.00
ATOM	185	CA	GLN	13	-13.259	9.708	-1.244	1.00	0.00
ATOM	186	HA	GLN	13	-13.219	9.302	-0.233	1.00	0.00
ATOM	187	CB	GLN	13	-14.001	11.048	-1.205	1.00	0.00
ATOM	188	HB2	GLN	13	-13.833	11.578	-2.142	1.00	0.00
ATOM	189	HB3	GLN	13	-15.068	10.864	-1.078	1.00	0.00
ATOM	190	CG	GLN	13	-13.488	11.898	-0.038	1.00	0.00

ATOM	191	HG2	GLN	13	-14.118	12.779	0.078	1.00	0.00
ATOM	192	HG3	GLN	13	-13.506	11.315	0.883	1.00	0.00
ATOM	193	CD	GLN	13	-12.056	12.354	-0.298	1.00	0.00
ATOM	194	OE1	GLN	13	-11.106	11.680	0.100	1.00	0.00
ATOM	195	NE2	GLN	13	-11.844	13.468	-0.943	1.00	0.00
ATOM	196	HE21	GLN	13	-10.897	13.774	-1.118	1.00	0.00
ATOM	197	HE22	GLN	13	-12.627	14.018	-1.264	1.00	0.00
ATOM	198	C	GLN	13	-14.019	8.733	-2.130	1.00	0.00
ATOM	199	O	GLN	13	-14.689	7.827	-1.639	1.00	0.00
ATOM	200	N	ARG	14	-13.873	8.908	-3.441	1.00	0.00
ATOM	201	H	ARG	14	-13.316	9.676	-3.788	1.00	0.00
ATOM	202	CA	ARG	14	-14.504	8.028	-4.402	1.00	0.00
ATOM	203	HA	ARG	14	-15.587	8.064	-4.283	1.00	0.00
ATOM	204	CB	ARG	14	-14.153	8.461	-5.830	1.00	0.00
ATOM	205	HB2	ARG	14	-14.326	9.532	-5.933	1.00	0.00
ATOM	206	HB3	ARG	14	-13.102	8.243	-6.023	1.00	0.00
ATOM	207	CG	ARG	14	-15.025	7.703	-6.837	1.00	0.00
ATOM	208	HG2	ARG	14	-14.552	7.731	-7.819	1.00	0.00
ATOM	209	HG3	ARG	14	-15.132	6.667	-6.515	1.00	0.00
ATOM	210	CD	ARG	14	-16.406	8.357	-6.917	1.00	0.00
ATOM	211	HD2	ARG	14	-17.062	7.761	-7.552	1.00	0.00
ATOM	212	HD3	ARG	14	-16.838	8.433	-5.919	1.00	0.00

ATOM	213	NE	ARG	14	-16.297	9.699	-7.484	1.00	0.00
ATOM	214	HE	ARG	14	-15.502	9.942	-8.057	1.00	0.00
ATOM	215	CZ	ARG	14	-17.229	10.625	-7.264	1.00	0.00
ATOM	216	NH1	ARG	14	-18.274	10.347	-6.532	1.00	0.00
ATOM	217	HH11	ARG	14	-18.375	9.425	-6.131	1.00	0.00
ATOM	218	HH12	ARG	14	-18.976	11.054	-6.370	1.00	0.00
ATOM	219	NH2	ARG	14	-17.097	11.816	-7.782	1.00	0.00
ATOM	220	HH21	ARG	14	-16.288	12.030	-8.347	1.00	0.00
ATOM	221	HH22	ARG	14	-17.804	12.517	-7.614	1.00	0.00
ATOM	222	C	ARG	14	-14.009	6.622	-4.146	1.00	0.00
ATOM	223	O	ARG	14	-14.779	5.661	-4.153	1.00	0.00
ATOM	224	N	GLN	15	-12.703	6.524	-3.896	1.00	0.00
ATOM	225	H	GLN	15	-12.109	7.340	-3.921	1.00	0.00
ATOM	226	CA	GLN	15	-12.098	5.248	-3.609	1.00	0.00
ATOM	227	HA	GLN	15	-12.481	4.491	-4.293	1.00	0.00
ATOM	228	CB	GLN	15	-10.575	5.335	-3.778	1.00	0.00
ATOM	229	HB2	GLN	15	-10.265	6.379	-3.731	1.00	0.00
ATOM	230	HB3	GLN	15	-10.090	4.776	-2.977	1.00	0.00
ATOM	231	CG	GLN	15	-10.170	4.743	-5.132	1.00	0.00
ATOM	232	HG2	GLN	15	-9.135	4.402	-5.091	1.00	0.00
ATOM	233	HG3	GLN	15	-10.818	3.904	-5.386	1.00	0.00
ATOM	234	CD	GLN	15	-10.292	5.801	-6.224	1.00	0.00

ATOM	235	OE1	GLN	15	-9.285	6.327	-6.695	1.00	0.00
ATOM	236	NE2	GLN	15	-11.475	6.150	-6.653	1.00	0.00
ATOM	237	HE21	GLN	15	-11.560	6.850	-7.376	1.00	0.00
ATOM	238	HE22	GLN	15	-12.299	5.718	-6.260	1.00	0.00
ATOM	239	C	GLN	15	-12.450	4.842	-2.187	1.00	0.00
ATOM	240	O	GLN	15	-11.628	4.926	-1.273	1.00	0.00
ATOM	241	N	GLN	16	-13.681	4.396	-2.022	1.00	0.00
ATOM	242	H	GLN	16	-14.319	4.374	-2.804	1.00	0.00
ATOM	243	CA	GLN	16	-14.170	3.960	-0.720	1.00	0.00
ATOM	244	HA	GLN	16	-13.759	4.592	0.068	1.00	0.00
ATOM	245	CB	GLN	16	-15.695	4.062	-0.682	1.00	0.00
ATOM	246	HB2	GLN	16	-16.127	3.442	-1.468	1.00	0.00
ATOM	247	HB3	GLN	16	-16.064	3.727	0.288	1.00	0.00
ATOM	248	CG	GLN	16	-16.097	5.521	-0.904	1.00	0.00
ATOM	249	HG2	GLN	16	-15.667	6.139	-0.115	1.00	0.00
ATOM	250	HG3	GLN	16	-15.728	5.859	-1.872	1.00	0.00
ATOM	251	CD	GLN	16	-17.614	5.682	-0.877	1.00	0.00
ATOM	252	OE1	GLN	16	-18.350	4.694	-0.861	1.00	0.00
ATOM	253	NE2	GLN	16	-18.124	6.883	-0.874	1.00	0.00
ATOM	254	HE21	GLN	16	-19.126	7.002	-0.856	1.00	0.00
ATOM	255	HE22	GLN	16	-17.513	7.687	-0.889	1.00	0.00
ATOM	256	C	GLN	16	-13.720	2.528	-0.459	1.00	0.00

ATOM	257	O	GLN	16	-14.490	1.694	0.026	1.00	0.00
ATOM	258	N	MET	17	-12.465	2.253	-0.807	1.00	0.00
ATOM	259	H	MET	17	-11.890	2.966	-1.233	1.00	0.00
ATOM	260	CA	MET	17	-11.899	0.920	-0.636	1.00	0.00
ATOM	261	HA	MET	17	-12.537	0.179	-1.118	1.00	0.00
ATOM	262	CB	MET	17	-10.504	0.854	-1.272	1.00	0.00
ATOM	263	HB2	MET	17	-10.348	-0.145	-1.680	1.00	0.00
ATOM	264	HB3	MET	17	-10.447	1.587	-2.076	1.00	0.00
ATOM	265	CG	MET	17	-9.423	1.153	-0.232	1.00	0.00
ATOM	266	HG2	MET	17	-9.753	1.954	0.429	1.00	0.00
ATOM	267	HG3	MET	17	-9.216	0.259	0.357	1.00	0.00
ATOM	268	SD	MET	17	-7.914	1.667	-1.080	1.00	0.00
ATOM	269	CE	MET	17	-8.544	3.242	-1.708	1.00	0.00
ATOM	270	HE1	MET	17	-8.847	3.872	-0.872	1.00	0.00
ATOM	271	HE2	MET	17	-7.762	3.745	-2.277	1.00	0.00
ATOM	272	HE3	MET	17	-9.402	3.059	-2.354	1.00	0.00
ATOM	273	C	MET	17	-11.817	0.529	0.831	1.00	0.00
ATOM	274	O	MET	17	-11.816	-0.653	1.159	1.00	0.00
ATOM	275	N	LEU	18	-11.735	1.530	1.699	1.00	0.00
ATOM	276	H	LEU	18	-11.720	2.484	1.368	1.00	0.00
ATOM	277	CA	LEU	18	-11.624	1.295	3.136	1.00	0.00
ATOM	278	HA	LEU	18	-10.726	0.714	3.349	1.00	0.00

ATOM	279	CB	LEU	18	-11.536	2.617	3.882	1.00	0.00
ATOM	280	HB2	LEU	18	-12.457	3.178	3.726	1.00	0.00
ATOM	281	HB3	LEU	18	-11.402	2.428	4.947	1.00	0.00
ATOM	282	CG	LEU	18	-10.349	3.429	3.355	1.00	0.00
ATOM	283	HG	LEU	18	-9.493	2.769	3.212	1.00	0.00
ATOM	284	CD1	LEU	18	-10.722	4.078	2.018	1.00	0.00
ATOM	285	HD11	LEU	18	-11.577	4.738	2.161	1.00	0.00
ATOM	286	HD12	LEU	18	-9.876	4.655	1.645	1.00	0.00
ATOM	287	HD13	LEU	18	-10.978	3.302	1.296	1.00	0.00
ATOM	288	CD2	LEU	18	-9.982	4.517	4.369	1.00	0.00
ATOM	289	HD21	LEU	18	-9.711	4.053	5.318	1.00	0.00
ATOM	290	HD22	LEU	18	-9.137	5.094	3.994	1.00	0.00
ATOM	291	HD23	LEU	18	-10.835	5.178	4.519	1.00	0.00
ATOM	292	C	LEU	18	-12.810	0.493	3.654	1.00	0.00
ATOM	293	O	LEU	18	-12.703	-0.170	4.677	1.00	0.00
ATOM	294	N	SER	19	-13.939	0.543	2.951	1.00	0.00
ATOM	295	H	SER	19	-14.017	1.112	2.120	1.00	0.00
ATOM	296	CA	SER	19	-15.106	-0.221	3.379	1.00	0.00
ATOM	297	HA	SER	19	-15.345	0.015	4.416	1.00	0.00
ATOM	298	CB	SER	19	-16.314	0.127	2.506	1.00	0.00
ATOM	299	HB2	SER	19	-16.141	-0.219	1.487	1.00	0.00
ATOM	300	HB3	SER	19	-17.206	-0.356	2.906	1.00	0.00

ATOM	301	OG	SER	19	-16.499	1.537	2.503	1.00	0.00
ATOM	302	HG	SER	19	-17.256	1.759	1.956	1.00	0.00
ATOM	303	C	SER	19	-14.797	-1.713	3.265	1.00	0.00
ATOM	304	O	SER	19	-14.911	-2.471	4.236	1.00	0.00
ATOM	305	N	HIE	20	-14.364	-2.113	2.071	1.00	0.00
ATOM	306	H	HIE	20	-14.289	-1.449	1.314	1.00	0.00
ATOM	307	CA	HIE	20	-13.997	-3.501	1.813	1.00	0.00
ATOM	308	HA	HIE	20	-14.773	-4.167	2.190	1.00	0.00
ATOM	309	CB	HIE	20	-13.838	-3.738	0.304	1.00	0.00
ATOM	310	HB2	HIE	20	-12.801	-3.702	-0.029	1.00	0.00
ATOM	311	HB3	HIE	20	-14.280	-4.690	0.011	1.00	0.00
ATOM	312	CG	HIE	20	-14.573	-2.668	-0.458	1.00	0.00
ATOM	313	ND1	HIE	20	-13.920	-1.779	-1.296	1.00	0.00
ATOM	314	CE1	HIE	20	-14.845	-0.944	-1.802	1.00	0.00
ATOM	315	HE1	HIE	20	-14.498	-0.173	-2.490	1.00	0.00
ATOM	316	NE2	HIE	20	-16.068	-1.227	-1.348	1.00	0.00
ATOM	317	HE2	HIE	20	-16.951	-0.779	-1.546	1.00	0.00
ATOM	318	CD2	HIE	20	-15.899	-2.317	-0.500	1.00	0.00
ATOM	319	HD2	HIE	20	-16.760	-2.752	0.007	1.00	0.00
ATOM	320	C	HIE	20	-12.686	-3.800	2.521	1.00	0.00
ATOM	321	O	HIE	20	-12.472	-4.895	3.040	1.00	0.00
ATOM	322	N	CYX	21	-11.819	-2.794	2.543	1.00	0.00

ATOM	323	H	CYX	21	-12.042	-1.931	2.069	1.00	0.00
ATOM	324	CA	CYX	21	-10.529	-2.906	3.195	1.00	0.00
ATOM	325	HA	CYX	21	-9.956	-3.733	2.776	1.00	0.00
ATOM	326	CB	CYX	21	-9.748	-1.604	2.969	1.00	0.00
ATOM	327	HB2	CYX	21	-10.437	-0.813	2.676	1.00	0.00
ATOM	328	HB3	CYX	21	-9.240	-1.320	3.891	1.00	0.00
ATOM	329	SG	CYX	21	-8.552	-1.864	1.634	1.00	0.00
ATOM	330	C	CYX	21	-10.731	-3.185	4.684	1.00	0.00
ATOM	331	O	CYX	21	-10.118	-4.094	5.246	1.00	0.00
ATOM	332	N	ARG	22	-11.631	-2.428	5.305	1.00	0.00
ATOM	333	H	ARG	22	-12.107	-1.686	4.813	1.00	0.00
ATOM	334	CA	ARG	22	-11.947	-2.637	6.711	1.00	0.00
ATOM	335	HA	ARG	22	-11.055	-2.485	7.319	1.00	0.00
ATOM	336	CB	ARG	22	-13.023	-1.646	7.164	1.00	0.00
ATOM	337	HB2	ARG	22	-12.724	-0.637	6.881	1.00	0.00
ATOM	338	HB3	ARG	22	-13.967	-1.895	6.680	1.00	0.00
ATOM	339	CG	ARG	22	-13.195	-1.719	8.684	1.00	0.00
ATOM	340	HG2	ARG	22	-13.414	-2.746	8.977	1.00	0.00
ATOM	341	HG3	ARG	22	-12.276	-1.392	9.171	1.00	0.00
ATOM	342	CD	ARG	22	-14.351	-0.809	9.111	1.00	0.00
ATOM	343	HD2	ARG	22	-15.292	-1.197	8.721	1.00	0.00
ATOM	344	HD3	ARG	22	-14.402	-0.760	10.199	1.00	0.00



ATOM	345	NE	ARG	22	-14.149	0.542	8.590	1.00	0.00
ATOM	346	HE	ARG	22	-13.527	1.179	9.068	1.00	0.00
ATOM	347	CZ	ARG	22	-14.771	0.966	7.487	1.00	0.00
ATOM	348	NH1	ARG	22	-15.600	0.180	6.852	1.00	0.00
ATOM	349	HH11	ARG	22	-15.771	-0.754	7.198	1.00	0.00
ATOM	350	HH12	ARG	22	-16.065	0.509	6.019	1.00	0.00
ATOM	351	NH2	ARG	22	-14.550	2.171	7.038	1.00	0.00
ATOM	352	HH21	ARG	22	-13.908	2.779	7.527	1.00	0.00
ATOM	353	HH22	ARG	22	-15.021	2.490	6.204	1.00	0.00
ATOM	354	C	ARG	22	-12.444	-4.063	6.882	1.00	0.00
ATOM	355	O	ARG	22	-12.014	-4.790	7.785	1.00	0.00
ATOM	356	N	MET	23	-13.335	-4.469	5.971	1.00	0.00
ATOM	357	H	MET	23	-13.671	-3.839	5.258	1.00	0.00
ATOM	358	CA	MET	23	-13.859	-5.824	5.996	1.00	0.00
ATOM	359	HA	MET	23	-14.409	-5.992	6.922	1.00	0.00
ATOM	360	CB	MET	23	-14.809	-6.049	4.813	1.00	0.00
ATOM	361	HB2	MET	23	-15.562	-5.261	4.800	1.00	0.00
ATOM	362	HB3	MET	23	-14.240	-6.023	3.884	1.00	0.00
ATOM	363	CG	MET	23	-15.497	-7.409	4.952	1.00	0.00
ATOM	364	HG2	MET	23	-14.746	-8.195	5.037	1.00	0.00
ATOM	365	HG3	MET	23	-16.128	-7.414	5.841	1.00	0.00
ATOM	366	SD	MET	23	-16.522	-7.719	3.492	1.00	0.00

ATOM	367	CE	MET	23	-15.175	-8.044	2.326	1.00	0.00
ATOM	368	HE1	MET	23	-14.592	-8.898	2.672	1.00	0.00
ATOM	369	HE2	MET	23	-15.590	-8.263	1.342	1.00	0.00
ATOM	370	HE3	MET	23	-14.530	-7.168	2.261	1.00	0.00
ATOM	371	C	MET	23	-12.694	-6.804	5.927	1.00	0.00
ATOM	372	O	MET	23	-12.694	-7.832	6.601	1.00	0.00
ATOM	373	N	TYR	24	-11.692	-6.455	5.116	1.00	0.00
ATOM	374	H	TYR	24	-11.766	-5.622	4.550	1.00	0.00
ATOM	375	CA	TYR	24	-10.501	-7.285	4.973	1.00	0.00
ATOM	376	HA	TYR	24	-10.777	-8.282	4.628	1.00	0.00
ATOM	377	CB	TYR	24	-9.543	-6.654	3.941	1.00	0.00
ATOM	378	HB2	TYR	24	-9.535	-7.269	3.041	1.00	0.00
ATOM	379	HB3	TYR	24	-9.922	-5.661	3.700	1.00	0.00
ATOM	380	CG	TYR	24	-8.130	-6.537	4.485	1.00	0.00
ATOM	381	CD1	TYR	24	-7.433	-7.679	4.896	1.00	0.00
ATOM	382	HD1	TYR	24	-7.907	-8.659	4.835	1.00	0.00
ATOM	383	CE1	TYR	24	-6.126	-7.563	5.386	1.00	0.00
ATOM	384	HE1	TYR	24	-5.586	-8.452	5.714	1.00	0.00
ATOM	385	CZ	TYR	24	-5.515	-6.306	5.459	1.00	0.00
ATOM	386	OH	TYR	24	-4.225	-6.192	5.935	1.00	0.00
ATOM	387	HH	TYR	24	-3.842	-7.036	6.188	1.00	0.00
ATOM	388	CE2	TYR	24	-6.209	-5.166	5.046	1.00	0.00

ATOM	389	HE2 TYR	24	-5.732	-4.188	5.103	1.00	0.00
ATOM	390	CD2 TYR	24	-7.516	-5.280	4.559	1.00	0.00
ATOM	391	HD2 TYR	24	-8.057	-4.391	4.237	1.00	0.00
ATOM	392	C TYR	24	-9.825	-7.456	6.331	1.00	0.00
ATOM	393	O TYR	24	-9.419	-8.556	6.695	1.00	0.00
ATOM	394	N MET	25	-9.719	-6.364	7.087	1.00	0.00
ATOM	395	H MET	25	-10.060	-5.470	6.766	1.00	0.00
ATOM	396	CA MET	25	-9.105	-6.436	8.410	1.00	0.00
ATOM	397	HA MET	25	-8.056	-6.720	8.320	1.00	0.00
ATOM	398	CB MET	25	-9.185	-5.074	9.101	1.00	0.00
ATOM	399	HB2 MET	25	-10.231	-4.800	9.235	1.00	0.00
ATOM	400	HB3 MET	25	-8.699	-5.136	10.075	1.00	0.00
ATOM	401	CG MET	25	-8.483	-4.011	8.246	1.00	0.00
ATOM	402	HG2 MET	25	-8.899	-4.019	7.239	1.00	0.00
ATOM	403	HG3 MET	25	-8.630	-3.028	8.693	1.00	0.00
ATOM	404	SD MET	25	-6.711	-4.366	8.159	1.00	0.00
ATOM	405	CE MET	25	-6.303	-3.918	9.864	1.00	0.00
ATOM	406	HE1 MET	25	-6.868	-4.548	10.551	1.00	0.00
ATOM	407	HE2 MET	25	-5.236	-4.064	10.033	1.00	0.00
ATOM	408	HE3 MET	25	-6.558	-2.873	10.037	1.00	0.00
ATOM	409	C MET	25	-9.850	-7.470	9.249	1.00	0.00
ATOM	410	O MET	25	-9.252	-8.388	9.830	1.00	0.00

ATOM	411	N	ARG	26	-11.175	-7.336	9.277	1.00	0.00
ATOM	412	H	ARG	26	-11.629	-6.568	8.805	1.00	0.00
ATOM	413	CA	ARG	26	-12.002	-8.281	10.010	1.00	0.00
ATOM	414	HA	ARG	26	-11.726	-8.277	11.065	1.00	0.00
ATOM	415	CB	ARG	26	-13.481	-7.893	9.888	1.00	0.00
ATOM	416	HB2	ARG	26	-13.612	-6.865	10.224	1.00	0.00
ATOM	417	HB3	ARG	26	-13.790	-7.977	8.846	1.00	0.00
ATOM	418	CG	ARG	26	-14.338	-8.825	10.752	1.00	0.00
ATOM	419	HG2	ARG	26	-15.390	-8.672	10.512	1.00	0.00
ATOM	420	HG3	ARG	26	-14.065	-9.860	10.544	1.00	0.00
ATOM	421	CD	ARG	26	-14.104	-8.524	12.235	1.00	0.00
ATOM	422	HD2	ARG	26	-13.042	-8.603	12.468	1.00	0.00
ATOM	423	HD3	ARG	26	-14.453	-7.519	12.470	1.00	0.00
ATOM	424	NE	ARG	26	-14.836	-9.480	13.063	1.00	0.00
ATOM	425	HE	ARG	26	-15.745	-9.809	12.770	1.00	0.00
ATOM	426	CZ	ARG	26	-14.333	-9.938	14.210	1.00	0.00
ATOM	427	NH1	ARG	26	-13.165	-9.532	14.629	1.00	0.00
ATOM	428	HH11	ARG	26	-12.638	-8.867	14.081	1.00	0.00
ATOM	429	HH12	ARG	26	-12.793	-9.886	15.499	1.00	0.00
ATOM	430	NH2	ARG	26	-15.014	-10.797	14.917	1.00	0.00
ATOM	431	HH21	ARG	26	-15.917	-11.111	14.592	1.00	0.00
ATOM	432	HH22	ARG	26	-14.634	-11.145	15.786	1.00	0.00

ATOM	433	C	ARG	26	-11.768	-9.674	9.440	1.00	0.00
ATOM	434	O	ARG	26	-11.659	-10.661	10.175	1.00	0.00
ATOM	435	N	GLN	27	-11.651	-9.734	8.118	1.00	0.00
ATOM	436	H	GLN	27	-11.775	-8.906	7.553	1.00	0.00
ATOM	437	CA	GLN	27	-11.386	-10.987	7.448	1.00	0.00
ATOM	438	HA	GLN	27	-12.180	-11.699	7.673	1.00	0.00
ATOM	439	CB	GLN	27	-11.323	-10.787	5.926	1.00	0.00
ATOM	440	HB2	GLN	27	-12.301	-10.470	5.566	1.00	0.00
ATOM	441	HB3	GLN	27	-10.584	-10.019	5.696	1.00	0.00
ATOM	442	CG	GLN	27	-10.926	-12.101	5.238	1.00	0.00
ATOM	443	HG2	GLN	27	-11.042	-11.995	4.160	1.00	0.00
ATOM	444	HG3	GLN	27	-9.890	-12.351	5.469	1.00	0.00
ATOM	445	CD	GLN	27	-11.819	-13.241	5.714	1.00	0.00
ATOM	446	OE1	GLN	27	-12.661	-13.733	4.963	1.00	0.00
ATOM	447	NE2	GLN	27	-11.686	-13.682	6.934	1.00	0.00
ATOM	448	HE21	GLN	27	-12.271	-14.437	7.262	1.00	0.00
ATOM	449	HE22	GLN	27	-10.998	-13.267	7.546	1.00	0.00
ATOM	450	C	GLN	27	-10.079	-11.558	7.968	1.00	0.00
ATOM	451	O	GLN	27	-9.945	-12.756	8.166	1.00	0.00
ATOM	452	N	GLN	28	-9.114	-10.696	8.224	1.00	0.00
ATOM	453	H	GLN	28	-9.223	-9.704	8.072	1.00	0.00
ATOM	454	CA	GLN	28	-7.859	-11.172	8.737	1.00	0.00

ATOM	455	HA	GLN	28	-7.395	-11.857	8.027	1.00	0.00
ATOM	456	CB	GLN	28	-6.930	-10.003	8.958	1.00	0.00
ATOM	457	HB2	GLN	28	-6.877	-9.412	8.044	1.00	0.00
ATOM	458	HB3	GLN	28	-7.319	-9.386	9.768	1.00	0.00
ATOM	459	CG	GLN	28	-5.528	-10.502	9.325	1.00	0.00
ATOM	460	HG2	GLN	28	-5.288	-11.393	8.745	1.00	0.00
ATOM	461	HG3	GLN	28	-4.792	-9.725	9.118	1.00	0.00
ATOM	462	CD	GLN	28	-5.461	-10.854	10.809	1.00	0.00
ATOM	463	OE1	GLN	28	-5.023	-12.029	11.171	1.00	0.00
ATOM	464	NE2	GLN	28	-5.817	-10.038	11.660	1.00	0.00
ATOM	465	HE21	GLN	28	-5.768	-10.281	12.640	1.00	0.00
ATOM	466	HE22	GLN	28	-6.155	-9.131	11.375	1.00	0.00
ATOM	467	C	GLN	28	-8.101	-11.889	10.054	1.00	0.00
ATOM	468	O	GLN	28	-7.494	-12.925	10.330	1.00	0.00
ATOM	469	N	MET	29	-9.006	-11.333	10.862	1.00	0.00
ATOM	470	H	MET	29	-9.470	-10.472	10.613	1.00	0.00
ATOM	471	CA	MET	29	-9.327	-11.946	12.148	1.00	0.00
ATOM	472	HA	MET	29	-8.427	-12.010	12.761	1.00	0.00
ATOM	473	CB	MET	29	-10.371	-11.111	12.897	1.00	0.00
ATOM	474	HB2	MET	29	-11.182	-10.851	12.218	1.00	0.00
ATOM	475	HB3	MET	29	-10.767	-11.690	13.731	1.00	0.00
ATOM	476	CG	MET	29	-9.722	-9.832	13.428	1.00	0.00

ATOM	477	HG2 MET	29	-9.342	-9.236	12.599	1.00	0.00
ATOM	478	HG3 MET	29	-10.453	-9.250	13.989	1.00	0.00
ATOM	479	SD MET	29	-8.349	-10.274	14.521	1.00	0.00
ATOM	480	CE MET	29	-9.309	-11.225	15.728	1.00	0.00
ATOM	481	HE1 MET	29	-9.791	-12.065	15.229	1.00	0.00
ATOM	482	HE2 MET	29	-8.645	-11.599	16.508	1.00	0.00
ATOM	483	HE3 MET	29	-10.068	-10.584	16.176	1.00	0.00
ATOM	484	C MET	29	-9.858	-13.361	11.943	1.00	0.00
ATOM	485	O MET	29	-9.313	-14.317	12.492	1.00	0.00
ATOM	486	N GLU	30	-10.911	-13.498	11.137	1.00	0.00
ATOM	487	H GLU	30	-11.357	-12.697	10.715	1.00	0.00
ATOM	488	CA GLU	30	-11.469	-14.825	10.869	1.00	0.00
ATOM	489	HA GLU	30	-11.676	-15.335	11.810	1.00	0.00
ATOM	490	CB GLU	30	-12.775	-14.710	10.076	1.00	0.00
ATOM	491	HB2 GLU	30	-12.609	-14.092	9.194	1.00	0.00
ATOM	492	HB3 GLU	30	-13.098	-15.704	9.767	1.00	0.00
ATOM	493	CG GLU	30	-13.857	-14.071	10.951	1.00	0.00
ATOM	494	HG2 GLU	30	-14.838	-14.422	10.632	1.00	0.00
ATOM	495	HG3 GLU	30	-13.687	-14.362	11.988	1.00	0.00
ATOM	496	CD GLU	30	-13.798	-12.552	10.834	1.00	0.00
ATOM	497	OE1 GLU	30	-13.939	-12.057	9.727	1.00	0.00
ATOM	498	OE2 GLU	30	-13.621	-11.905	11.854	1.00	0.00

ATOM	499	C	GLU	30	-10.470	-15.677	10.087	1.00	0.00
ATOM	500	O	GLU	30	-10.287	-16.862	10.364	1.00	0.00
ATOM	501	N	GLU	31	-9.836	-15.047	9.100	1.00	0.00
ATOM	502	H	GLU	31	-10.057	-14.081	8.909	1.00	0.00
ATOM	503	CA	GLU	31	-8.854	-15.715	8.248	1.00	0.00
ATOM	504	HA	GLU	31	-9.264	-16.647	7.858	1.00	0.00
ATOM	505	CB	GLU	31	-8.494	-14.806	7.067	1.00	0.00
ATOM	506	HB2	GLU	31	-9.402	-14.345	6.680	1.00	0.00
ATOM	507	HB3	GLU	31	-7.810	-14.029	7.408	1.00	0.00
ATOM	508	CG	GLU	31	-7.823	-15.626	5.957	1.00	0.00
ATOM	509	HG2	GLU	31	-6.965	-16.152	6.375	1.00	0.00
ATOM	510	HG3	GLU	31	-8.540	-16.351	5.571	1.00	0.00
ATOM	511	CD	GLU	31	-7.357	-14.714	4.819	1.00	0.00
ATOM	512	OE1	GLU	31	-7.498	-13.506	4.945	1.00	0.00
ATOM	513	OE2	GLU	31	-6.863	-15.240	3.834	1.00	0.00
ATOM	514	C	GLU	31	-7.589	-16.079	9.033	1.00	0.00
ATOM	515	O	GLU	31	-6.683	-16.705	8.491	1.00	0.00
ATOM	516	N	SER	32	-7.528	-15.673	10.303	1.00	0.00
ATOM	517	H	SER	32	-8.288	-15.140	10.701	1.00	0.00
ATOM	518	CA	SER	32	-6.360	-15.952	11.145	1.00	0.00
ATOM	519	HA	SER	32	-5.533	-15.300	10.864	1.00	0.00
ATOM	520	CB	SER	32	-6.701	-15.703	12.614	1.00	0.00



ATOM	521	HB2	SER	32	-5.817	-15.878	13.228	1.00	0.00
ATOM	522	HB3	SER	32	-7.033	-14.673	12.742	1.00	0.00
ATOM	523	OG	SER	32	-7.739	-16.589	13.014	1.00	0.00
ATOM	524	HG	SER	32	-7.954	-16.434	13.937	1.00	0.00
ATOM	525	C	SER	32	-5.891	-17.393	10.964	1.00	0.00
ATOM	526	O	SER	32	-4.733	-17.715	11.229	1.00	0.00
ATOM	527	N	THR	33	-6.799	-18.251	10.512	1.00	0.00
ATOM	528	H	THR	33	-7.748	-17.947	10.350	1.00	0.00
ATOM	529	CA	THR	33	-6.471	-19.649	10.269	1.00	0.00
ATOM	530	HA	THR	33	-5.839	-20.034	11.070	1.00	0.00
ATOM	531	CB	THR	33	-7.758	-20.480	10.219	1.00	0.00
ATOM	532	HB	THR	33	-7.514	-21.511	9.960	1.00	0.00
ATOM	533	CG2	THR	33	-8.446	-20.447	11.586	1.00	0.00
ATOM	534	HG21	THR	33	-8.691	-19.417	11.846	1.00	0.00
ATOM	535	HG22	THR	33	-9.360	-21.039	11.548	1.00	0.00
ATOM	536	HG23	THR	33	-7.777	-20.862	12.340	1.00	0.00
ATOM	537	OG1	THR	33	-8.632	-19.940	9.236	1.00	0.00
ATOM	538	HG1	THR	33	-9.438	-20.460	9.205	1.00	0.00
ATOM	539	C	THR	33	-5.694	-19.823	8.952	1.00	0.00
ATOM	540	O	THR	33	-4.587	-20.361	8.937	1.00	0.00
ATOM	541	N	TYR	34	-6.323	-19.402	7.845	1.00	0.00
ATOM	542	H	TYR	34	-7.245	-18.999	7.929	1.00	0.00

ATOM	543	CA	TYR	34	-5.743	-19.545	6.498	1.00	0.00
ATOM	544	HA	TYR	34	-4.956	-20.300	6.501	1.00	0.00
ATOM	545	CB	TYR	34	-6.838	-19.983	5.521	1.00	0.00
ATOM	546	HB2	TYR	34	-7.607	-19.213	5.465	1.00	0.00
ATOM	547	HB3	TYR	34	-6.401	-20.132	4.534	1.00	0.00
ATOM	548	CG	TYR	34	-7.455	-21.277	5.999	1.00	0.00
ATOM	549	CD1	TYR	34	-6.777	-22.488	5.812	1.00	0.00
ATOM	550	HD1	TYR	34	-5.804	-22.498	5.320	1.00	0.00
ATOM	551	CE1	TYR	34	-7.348	-23.686	6.257	1.00	0.00
ATOM	552	HE1	TYR	34	-6.820	-24.629	6.111	1.00	0.00
ATOM	553	CZ	TYR	34	-8.597	-23.674	6.890	1.00	0.00
ATOM	554	OH	TYR	34	-9.159	-24.855	7.328	1.00	0.00
ATOM	555	HH	TYR	34	-8.609	-25.622	7.148	1.00	0.00
ATOM	556	CE2	TYR	34	-9.274	-22.463	7.077	1.00	0.00
ATOM	557	HE2	TYR	34	-10.246	-22.454	7.570	1.00	0.00
ATOM	558	CD2	TYR	34	-8.704	-21.266	6.633	1.00	0.00
ATOM	559	HD2	TYR	34	-9.231	-20.324	6.780	1.00	0.00
ATOM	560	C	TYR	34	-5.078	-18.267	5.957	1.00	0.00
ATOM	561	O	TYR	34	-4.694	-18.235	4.787	1.00	0.00
ATOM	562	N	GLN	35	-4.988	-17.213	6.771	1.00	0.00
ATOM	563	H	GLN	35	-5.343	-17.269	7.715	1.00	0.00
ATOM	564	CA	GLN	35	-4.408	-15.933	6.316	1.00	0.00

ATOM	565	HA	GLN	35	-5.178	-15.348	5.815	1.00	0.00
ATOM	566	CB	GLN	35	-3.856	-15.114	7.489	1.00	0.00
ATOM	567	HB2	GLN	35	-3.651	-14.100	7.147	1.00	0.00
ATOM	568	HB3	GLN	35	-4.602	-15.086	8.284	1.00	0.00
ATOM	569	CG	GLN	35	-2.561	-15.744	8.025	1.00	0.00
ATOM	570	HG2	GLN	35	-1.841	-15.872	7.216	1.00	0.00
ATOM	571	HG3	GLN	35	-2.131	-15.103	8.795	1.00	0.00
ATOM	572	CD	GLN	35	-2.853	-17.107	8.635	1.00	0.00
ATOM	573	OE1	GLN	35	-4.056	-17.365	9.052	1.00	0.00
ATOM	574	NE2	GLN	35	-1.967	-17.955	8.728	1.00	0.00
ATOM	575	HE21	GLN	35	-2.175	-18.856	9.135	1.00	0.00
ATOM	576	HE22	GLN	35	-1.036	-17.747	8.397	1.00	0.00
ATOM	577	C	GLN	35	-3.284	-16.116	5.307	1.00	0.00
ATOM	578	O	GLN	35	-3.092	-15.260	4.442	1.00	0.00
ATOM	579	N	THR	36	-2.536	-17.210	5.409	1.00	0.00
ATOM	580	H	THR	36	-2.691	-17.903	6.127	1.00	0.00
ATOM	581	CA	THR	36	-1.446	-17.420	4.474	1.00	0.00
ATOM	582	HA	THR	36	-0.723	-16.608	4.553	1.00	0.00
ATOM	583	CB	THR	36	-0.734	-18.741	4.784	1.00	0.00
ATOM	584	HB	THR	36	-1.410	-19.572	4.582	1.00	0.00
ATOM	585	CG2	THR	36	0.514	-18.874	3.907	1.00	0.00
ATOM	586	HG21	THR	36	1.191	-18.044	4.109	1.00	0.00

ATOM	587	HG22	THR	36	1.018	-19.815	4.131	1.00	0.00
ATOM	588	HG23	THR	36	0.224	-18.859	2.857	1.00	0.00
ATOM	589	OG1	THR	36	-0.356	-18.761	6.153	1.00	0.00
ATOM	590	HG1	THR	36	0.091	-19.588	6.350	1.00	0.00
ATOM	591	C	THR	36	-2.008	-17.449	3.059	1.00	0.00
ATOM	592	O	THR	36	-2.668	-18.406	2.655	1.00	0.00
ATOM	593	N	MET	37	-1.748	-16.373	2.325	1.00	0.00
ATOM	594	H	MET	37	-1.219	-15.608	2.719	1.00	0.00
ATOM	595	CA	MET	37	-2.235	-16.244	0.955	1.00	0.00
ATOM	596	HA	MET	37	-3.321	-16.328	0.933	1.00	0.00
ATOM	597	CB	MET	37	-1.838	-14.876	0.393	1.00	0.00
ATOM	598	HB2	MET	37	-0.761	-14.740	0.498	1.00	0.00
ATOM	599	HB3	MET	37	-2.109	-14.825	-0.661	1.00	0.00
ATOM	600	CG	MET	37	-2.570	-13.771	1.162	1.00	0.00
ATOM	601	HG2	MET	37	-2.557	-13.995	2.229	1.00	0.00
ATOM	602	HG3	MET	37	-2.079	-12.814	0.987	1.00	0.00
ATOM	603	SD	MET	37	-4.287	-13.673	0.594	1.00	0.00
ATOM	604	CE	MET	37	-4.007	-12.544	-0.792	1.00	0.00
ATOM	605	HE1	MET	37	-3.311	-12.999	-1.497	1.00	0.00
ATOM	606	HE2	MET	37	-4.953	-12.343	-1.294	1.00	0.00
ATOM	607	HE3	MET	37	-3.588	-11.609	-0.420	1.00	0.00
ATOM	608	C	MET	37	-1.671	-17.349	0.062	1.00	0.00

ATOM	609	O	MET	37	-0.465	-17.405	-0.179	1.00	0.00
ATOM	610	N	PRO	38	-2.519	-18.216	-0.440	1.00	0.00
ATOM	611	CD	PRO	38	-3.976	-18.234	-0.212	1.00	0.00
ATOM	612	HD2	PRO	38	-4.413	-17.332	-0.638	1.00	0.00
ATOM	613	HD3	PRO	38	-4.167	-18.259	0.861	1.00	0.00
ATOM	614	CG	PRO	38	-4.450	-19.510	-0.920	1.00	0.00
ATOM	615	HG2	PRO	38	-4.958	-19.235	-1.844	1.00	0.00
ATOM	616	HG3	PRO	38	-5.144	-20.041	-0.268	1.00	0.00
ATOM	617	CB	PRO	38	-3.235	-20.336	-1.190	1.00	0.00
ATOM	618	HB2	PRO	38	-3.386	-20.863	-2.132	1.00	0.00
ATOM	619	HB3	PRO	38	-2.996	-21.056	-0.407	1.00	0.00
ATOM	620	CA	PRO	38	-2.099	-19.328	-1.335	1.00	0.00
ATOM	621	HA	PRO	38	-1.139	-19.709	-0.986	1.00	0.00
ATOM	622	C	PRO	38	-1.965	-18.862	-2.782	1.00	0.00
ATOM	623	O	PRO	38	-2.731	-18.013	-3.240	1.00	0.00
ATOM	624	N	ARG	39	-0.995	-19.422	-3.498	1.00	0.00
ATOM	625	H	ARG	39	-0.399	-20.133	-3.098	1.00	0.00
ATOM	626	CA	ARG	39	-0.786	-19.048	-4.894	1.00	0.00
ATOM	627	HA	ARG	39	-0.567	-17.983	-4.961	1.00	0.00
ATOM	628	CB	ARG	39	0.384	-19.824	-5.487	1.00	0.00
ATOM	629	HB2	ARG	39	0.118	-20.879	-5.555	1.00	0.00
ATOM	630	HB3	ARG	39	0.603	-19.440	-6.483	1.00	0.00

ATOM	631	CG	ARG	39	1.621	-19.667	-4.597	1.00	0.00
ATOM	632	HG2	ARG	39	1.842	-18.608	-4.466	1.00	0.00
ATOM	633	HG3	ARG	39	1.429	-20.121	-3.624	1.00	0.00
ATOM	634	CD	ARG	39	2.817	-20.360	-5.255	1.00	0.00
ATOM	635	HD2	ARG	39	2.550	-21.382	-5.525	1.00	0.00
ATOM	636	HD3	ARG	39	3.115	-19.814	-6.150	1.00	0.00
ATOM	637	NE	ARG	39	3.949	-20.401	-4.334	1.00	0.00
ATOM	638	HE	ARG	39	4.713	-19.749	-4.441	1.00	0.00
ATOM	639	CZ	ARG	39	4.005	-21.288	-3.340	1.00	0.00
ATOM	640	NH1	ARG	39	3.035	-22.145	-3.169	1.00	0.00
ATOM	641	HH11	ARG	39	2.241	-22.135	-3.792	1.00	0.00
ATOM	642	HH12	ARG	39	3.084	-22.814	-2.414	1.00	0.00
ATOM	643	NH2	ARG	39	5.033	-21.298	-2.536	1.00	0.00
ATOM	644	HH21	ARG	39	5.782	-20.634	-2.670	1.00	0.00
ATOM	645	HH22	ARG	39	5.075	-21.970	-1.783	1.00	0.00
ATOM	646	C	ARG	39	-2.018	-19.389	-5.708	1.00	0.00
ATOM	647	O	ARG	39	-2.420	-18.638	-6.597	1.00	0.00
ATOM	648	N	ARG	40	-2.608	-20.543	-5.401	1.00	0.00
ATOM	649	H	ARG	40	-2.230	-21.143	-4.681	1.00	0.00
ATOM	650	CA	ARG	40	-3.785	-20.989	-6.118	1.00	0.00
ATOM	651	HA	ARG	40	-3.616	-20.913	-7.192	1.00	0.00
ATOM	652	CB	ARG	40	-4.096	-22.447	-5.775	1.00	0.00

ATOM	653	HB2	ARG	40	-4.114	-22.570	-4.692	1.00	0.00
ATOM	654	HB3	ARG	40	-5.067	-22.719	-6.187	1.00	0.00
ATOM	655	CG	ARG	40	-3.017	-23.353	-6.373	1.00	0.00
ATOM	656	HG2	ARG	40	-2.035	-22.926	-6.170	1.00	0.00
ATOM	657	HG3	ARG	40	-3.083	-24.341	-5.917	1.00	0.00
ATOM	658	CD	ARG	40	-3.218	-23.475	-7.888	1.00	0.00
ATOM	659	HD2	ARG	40	-3.204	-22.485	-8.343	1.00	0.00
ATOM	660	HD3	ARG	40	-2.422	-24.083	-8.318	1.00	0.00
ATOM	661	NE	ARG	40	-4.501	-24.108	-8.182	1.00	0.00
ATOM	662	HE	ARG	40	-5.294	-23.542	-8.445	1.00	0.00
ATOM	663	CZ	ARG	40	-4.658	-25.429	-8.112	1.00	0.00
ATOM	664	NH1	ARG	40	-3.656	-26.194	-7.770	1.00	0.00
ATOM	665	HH11	ARG	40	-2.759	-25.782	-7.558	1.00	0.00
ATOM	666	HH12	ARG	40	-3.783	-27.195	-7.719	1.00	0.00
ATOM	667	NH2	ARG	40	-5.818	-25.961	-8.386	1.00	0.00
ATOM	668	HH21	ARG	40	-6.592	-25.369	-8.650	1.00	0.00
ATOM	669	HH22	ARG	40	-5.936	-26.963	-8.332	1.00	0.00
ATOM	670	C	ARG	40	-4.970	-20.111	-5.777	1.00	0.00
ATOM	671	O	ARG	40	-5.616	-20.274	-4.740	1.00	0.00
ATOM	672	N	GLY	41	-5.239	-19.187	-6.678	1.00	0.00
ATOM	673	H	GLY	41	-4.664	-19.111	-7.505	1.00	0.00
ATOM	674	CA	GLY	41	-6.355	-18.256	-6.521	1.00	0.00

ATOM	675	HA2	GLY	41	-6.292	-17.495	-7.298	1.00	0.00
ATOM	676	HA3	GLY	41	-7.290	-18.805	-6.626	1.00	0.00
ATOM	677	C	GLY	41	-6.329	-17.575	-5.155	1.00	0.00
ATOM	678	O	GLY	41	-6.985	-18.027	-4.215	1.00	0.00
ATOM	679	N	MET	42	-5.573	-16.482	-5.055	1.00	0.00
ATOM	680	H	MET	42	-5.040	-16.157	-5.849	1.00	0.00
ATOM	681	CA	MET	42	-5.470	-15.738	-3.799	1.00	0.00
ATOM	682	HA	MET	42	-5.024	-16.366	-3.027	1.00	0.00
ATOM	683	CB	MET	42	-4.585	-14.503	-3.997	1.00	0.00
ATOM	684	HB2	MET	42	-4.959	-13.920	-4.838	1.00	0.00
ATOM	685	HB3	MET	42	-4.607	-13.893	-3.094	1.00	0.00
ATOM	686	CG	MET	42	-3.146	-14.941	-4.281	1.00	0.00
ATOM	687	HG2	MET	42	-2.788	-15.580	-3.473	1.00	0.00
ATOM	688	HG3	MET	42	-3.106	-15.490	-5.222	1.00	0.00
ATOM	689	SD	MET	42	-2.084	-13.481	-4.399	1.00	0.00
ATOM	690	CE	MET	42	-0.557	-14.344	-4.846	1.00	0.00
ATOM	691	HE1	MET	42	-0.705	-14.886	-5.780	1.00	0.00
ATOM	692	HE2	MET	42	0.248	-13.619	-4.971	1.00	0.00
ATOM	693	HE3	MET	42	-0.292	-15.048	-4.056	1.00	0.00
ATOM	694	C	MET	42	-6.853	-15.304	-3.314	1.00	0.00
ATOM	695	O	MET	42	-7.846	-15.450	-4.028	1.00	0.00
ATOM	696	N	GLU	43	-6.911	-14.772	-2.094	1.00	0.00



ATOM	697	H	GLU	43	-6.077	-14.685	-1.530	1.00	0.00
ATOM	698	CA	GLU	43	-8.181	-14.327	-1.526	1.00	0.00
ATOM	699	HA	GLU	43	-8.929	-15.114	-1.622	1.00	0.00
ATOM	700	CB	GLU	43	-8.004	-13.999	-0.039	1.00	0.00
ATOM	701	HB2	GLU	43	-7.407	-14.778	0.436	1.00	0.00
ATOM	702	HB3	GLU	43	-7.496	-13.040	0.064	1.00	0.00
ATOM	703	CG	GLU	43	-9.377	-13.925	0.637	1.00	0.00
ATOM	704	HG2	GLU	43	-9.959	-13.119	0.192	1.00	0.00
ATOM	705	HG3	GLU	43	-9.894	-14.873	0.485	1.00	0.00
ATOM	706	CD	GLU	43	-9.215	-13.669	2.134	1.00	0.00
ATOM	707	OE1	GLU	43	-8.692	-12.625	2.484	1.00	0.00
ATOM	708	OE2	GLU	43	-9.625	-14.518	2.909	1.00	0.00
ATOM	709	C	GLU	43	-8.697	-13.093	-2.269	1.00	0.00
ATOM	710	O	GLU	43	-7.973	-12.110	-2.429	1.00	0.00
ATOM	711	N	PRO	44	-9.927	-13.134	-2.728	1.00	0.00
ATOM	712	CD	PRO	44	-10.859	-14.264	-2.578	1.00	0.00
ATOM	713	HD2	PRO	44	-10.851	-14.600	-1.541	1.00	0.00
ATOM	714	HD3	PRO	44	-10.539	-15.081	-3.226	1.00	0.00
ATOM	715	CG	PRO	44	-12.207	-13.683	-2.996	1.00	0.00
ATOM	716	HG2	PRO	44	-12.744	-13.351	-2.108	1.00	0.00
ATOM	717	HG3	PRO	44	-12.787	-14.454	-3.504	1.00	0.00
ATOM	718	CB	PRO	44	-11.915	-12.544	-3.914	1.00	0.00

ATOM	719	HB2 PRO	44	-12.677	-11.775	-3.787	1.00	0.00
ATOM	720	HB3 PRO	44	-11.877	-12.850	-4.959	1.00	0.00
ATOM	721	CA PRO	44	-10.549	-12.000	-3.479	1.00	0.00
ATOM	722	HA PRO	44	-9.912	-11.775	-4.334	1.00	0.00
ATOM	723	C PRO	44	-10.711	-10.747	-2.621	1.00	0.00
ATOM	724	O PRO	44	-10.763	-9.633	-3.146	1.00	0.00
ATOM	725	N HIE	45	-10.795	-10.934	-1.306	1.00	0.00
ATOM	726	H HIE	45	-10.767	-11.865	-0.916	1.00	0.00
ATOM	727	CA HIE	45	-10.957	-9.805	-0.393	1.00	0.00
ATOM	728	HA HIE	45	-11.930	-9.340	-0.546	1.00	0.00
ATOM	729	CB HIE	45	-10.866	-10.283	1.059	1.00	0.00
ATOM	730	HB2 HIE	45	-9.948	-10.837	1.256	1.00	0.00
ATOM	731	HB3 HIE	45	-10.951	-9.459	1.767	1.00	0.00
ATOM	732	CG HIE	45	-12.006	-11.221	1.351	1.00	0.00
ATOM	733	ND1 HIE	45	-11.800	-12.531	1.753	1.00	0.00
ATOM	734	CE1 HIE	45	-13.008	-13.097	1.926	1.00	0.00
ATOM	735	HE1 HIE	45	-13.030	-14.139	2.245	1.00	0.00
ATOM	736	NE2 HIE	45	-13.998	-12.240	1.664	1.00	0.00
ATOM	737	HE2 HIE	45	-14.998	-12.376	1.706	1.00	0.00
ATOM	738	CD2 HIE	45	-13.368	-11.055	1.301	1.00	0.00
ATOM	739	HD2 HIE	45	-13.962	-10.182	1.034	1.00	0.00
ATOM	740	C HIE	45	-9.885	-8.749	-0.652	1.00	0.00

ATOM	741	O	HIE	45	-10.183	-7.555	-0.723	1.00	0.00
ATOM	742	N	MET	46	-8.641	-9.198	-0.803	1.00	0.00
ATOM	743	H	MET	46	-8.438	-10.185	-0.735	1.00	0.00
ATOM	744	CA	MET	46	-7.536	-8.281	-1.065	1.00	0.00
ATOM	745	HA	MET	46	-7.507	-7.504	-0.301	1.00	0.00
ATOM	746	CB	MET	46	-6.205	-9.041	-1.040	1.00	0.00
ATOM	747	HB2	MET	46	-6.178	-9.741	-1.875	1.00	0.00
ATOM	748	HB3	MET	46	-5.385	-8.329	-1.136	1.00	0.00
ATOM	749	CG	MET	46	-6.059	-9.811	0.275	1.00	0.00
ATOM	750	HG2	MET	46	-6.777	-10.631	0.300	1.00	0.00
ATOM	751	HG3	MET	46	-5.048	-10.212	0.353	1.00	0.00
ATOM	752	SD	MET	46	-6.369	-8.706	1.674	1.00	0.00
ATOM	753	CE	MET	46	-6.975	-9.970	2.820	1.00	0.00
ATOM	754	HE1	MET	46	-6.198	-10.719	2.980	1.00	0.00
ATOM	755	HE2	MET	46	-7.232	-9.505	3.772	1.00	0.00
ATOM	756	HE3	MET	46	-7.859	-10.449	2.399	1.00	0.00
ATOM	757	C	MET	46	-7.712	-7.628	-2.435	1.00	0.00
ATOM	758	O	MET	46	-7.497	-6.427	-2.599	1.00	0.00
ATOM	759	N	SER	47	-8.105	-8.444	-3.411	1.00	0.00
ATOM	760	H	SER	47	-8.244	-9.426	-3.216	1.00	0.00
ATOM	761	CA	SER	47	-8.313	-7.973	-4.778	1.00	0.00
ATOM	762	HA	SER	47	-7.385	-7.565	-5.179	1.00	0.00

ATOM	763	CB	SER	47	-8.759	-9.137	-5.665	1.00	0.00
ATOM	764	HB2	SER	47	-9.751	-9.469	-5.360	1.00	0.00
ATOM	765	HB3	SER	47	-8.788	-8.813	-6.705	1.00	0.00
ATOM	766	OG	SER	47	-7.838	-10.211	-5.530	1.00	0.00
ATOM	767	HG	SER	47	-8.116	-10.943	-6.086	1.00	0.00
ATOM	768	C	SER	47	-9.357	-6.860	-4.837	1.00	0.00
ATOM	769	O	SER	47	-9.274	-5.967	-5.680	1.00	0.00
ATOM	770	N	GLU	48	-10.348	-6.929	-3.952	1.00	0.00
ATOM	771	H	GLU	48	-10.396	-7.691	-3.290	1.00	0.00
ATOM	772	CA	GLU	48	-11.410	-5.926	-3.933	1.00	0.00
ATOM	773	HA	GLU	48	-11.974	-5.961	-4.864	1.00	0.00
ATOM	774	CB	GLU	48	-12.370	-6.202	-2.767	1.00	0.00
ATOM	775	HB2	GLU	48	-12.194	-7.209	-2.387	1.00	0.00
ATOM	776	HB3	GLU	48	-12.189	-5.478	-1.973	1.00	0.00
ATOM	777	CG	GLU	48	-13.823	-6.083	-3.246	1.00	0.00
ATOM	778	HG2	GLU	48	-13.871	-6.339	-4.304	1.00	0.00
ATOM	779	HG3	GLU	48	-14.437	-6.780	-2.676	1.00	0.00
ATOM	780	CD	GLU	48	-14.344	-4.661	-3.042	1.00	0.00
ATOM	781	OE1	GLU	48	-13.596	-3.729	-3.288	1.00	0.00
ATOM	782	OE2	GLU	48	-15.490	-4.524	-2.645	1.00	0.00
ATOM	783	C	GLU	48	-10.822	-4.522	-3.799	1.00	0.00
ATOM	784	O	GLU	48	-11.111	-3.641	-4.610	1.00	0.00

ATOM	785	N	CYX	49	-9.989	-4.324	-2.781	1.00	0.00
ATOM	786	H	CYX	49	-9.799	-5.064	-2.120	1.00	0.00
ATOM	787	CA	CYX	49	-9.360	-3.024	-2.564	1.00	0.00
ATOM	788	HA	CYX	49	-10.114	-2.238	-2.584	1.00	0.00
ATOM	789	CB	CYX	49	-8.657	-2.996	-1.196	1.00	0.00
ATOM	790	HB2	CYX	49	-8.451	-4.016	-0.871	1.00	0.00
ATOM	791	HB3	CYX	49	-7.719	-2.447	-1.280	1.00	0.00
ATOM	792	SG	CYX	49	-9.725	-2.169	0.011	1.00	0.00
ATOM	793	C	CYX	49	-8.354	-2.716	-3.675	1.00	0.00
ATOM	794	O	CYX	49	-8.153	-1.556	-4.028	1.00	0.00
ATOM	795	N	CYX	50	-7.725	-3.764	-4.213	1.00	0.00
ATOM	796	H	CYX	50	-7.921	-4.696	-3.874	1.00	0.00
ATOM	797	CA	CYX	50	-6.726	-3.606	-5.276	1.00	0.00
ATOM	798	HA	CYX	50	-5.838	-3.110	-4.883	1.00	0.00
ATOM	799	CB	CYX	50	-6.319	-4.974	-5.822	1.00	0.00
ATOM	800	HB2	CYX	50	-6.047	-5.630	-4.995	1.00	0.00
ATOM	801	HB3	CYX	50	-7.153	-5.410	-6.371	1.00	0.00
ATOM	802	SG	CYX	50	-4.927	-4.779	-6.967	1.00	0.00
ATOM	803	C	CYX	50	-7.239	-2.753	-6.433	1.00	0.00
ATOM	804	O	CYX	50	-6.517	-1.900	-6.950	1.00	0.00
ATOM	805	N	GLU	51	-8.475	-3.002	-6.853	1.00	0.00
ATOM	806	H	GLU	51	-9.028	-3.731	-6.425	1.00	0.00

ATOM	807	CA	GLU	51	-9.052	-2.261	-7.970	1.00	0.00
ATOM	808	HA	GLU	51	-8.453	-2.412	-8.868	1.00	0.00
ATOM	809	CB	GLU	51	-10.478	-2.753	-8.243	1.00	0.00
ATOM	810	HB2	GLU	51	-10.471	-3.837	-8.361	1.00	0.00
ATOM	811	HB3	GLU	51	-11.120	-2.484	-7.404	1.00	0.00
ATOM	812	CG	GLU	51	-11.012	-2.102	-9.526	1.00	0.00
ATOM	813	HG2	GLU	51	-12.059	-2.376	-9.656	1.00	0.00
ATOM	814	HG3	GLU	51	-10.929	-1.020	-9.430	1.00	0.00
ATOM	815	CD	GLU	51	-10.207	-2.570	-10.742	1.00	0.00
ATOM	816	OE1	GLU	51	-9.716	-3.688	-10.720	1.00	0.00
ATOM	817	OE2	GLU	51	-10.097	-1.801	-11.682	1.00	0.00
ATOM	818	C	GLU	51	-9.069	-0.757	-7.697	1.00	0.00
ATOM	819	O	GLU	51	-8.851	0.044	-8.604	1.00	0.00
ATOM	820	N	GLN	52	-9.340	-0.380	-6.450	1.00	0.00
ATOM	821	H	GLN	52	-9.545	-1.068	-5.739	1.00	0.00
ATOM	822	CA	GLN	52	-9.395	1.034	-6.082	1.00	0.00
ATOM	823	HA	GLN	52	-10.152	1.549	-6.672	1.00	0.00
ATOM	824	CB	GLN	52	-9.758	1.161	-4.605	1.00	0.00
ATOM	825	HB2	GLN	52	-9.000	0.666	-3.997	1.00	0.00
ATOM	826	HB3	GLN	52	-9.813	2.214	-4.330	1.00	0.00
ATOM	827	CG	GLN	52	-11.118	0.499	-4.363	1.00	0.00
ATOM	828	HG2	GLN	52	-11.249	-0.341	-5.045	1.00	0.00

ATOM	829	HG3	GLN	52	-11.179	0.144	-3.334	1.00	0.00
ATOM	830	CD	GLN	52	-12.244	1.501	-4.601	1.00	0.00
ATOM	831	OE1	GLN	52	-12.347	2.077	-5.683	1.00	0.00
ATOM	832	NE2	GLN	52	-13.101	1.743	-3.646	1.00	0.00
ATOM	833	HE21	GLN	52	-13.848	2.405	-3.798	1.00	0.00
ATOM	834	HE22	GLN	52	-13.012	1.266	-2.759	1.00	0.00
ATOM	835	C	GLN	52	-8.066	1.737	-6.360	1.00	0.00
ATOM	836	O	GLN	52	-8.032	2.750	-7.058	1.00	0.00
ATOM	837	N	LEU	53	-6.970	1.187	-5.829	1.00	0.00
ATOM	838	H	LEU	53	-7.027	0.331	-5.295	1.00	0.00
ATOM	839	CA	LEU	53	-5.647	1.777	-6.058	1.00	0.00
ATOM	840	HA	LEU	53	-5.618	2.782	-5.637	1.00	0.00
ATOM	841	CB	LEU	53	-4.547	0.937	-5.395	1.00	0.00
ATOM	842	HB2	LEU	53	-4.381	0.058	-6.018	1.00	0.00
ATOM	843	HB3	LEU	53	-3.632	1.528	-5.352	1.00	0.00
ATOM	844	CG	LEU	53	-4.936	0.493	-3.978	1.00	0.00
ATOM	845	HG	LEU	53	-4.039	0.498	-3.357	1.00	0.00
ATOM	846	CD1	LEU	53	-5.991	1.425	-3.361	1.00	0.00
ATOM	847	HD11	LEU	53	-6.888	1.420	-3.980	1.00	0.00
ATOM	848	HD12	LEU	53	-6.240	1.078	-2.358	1.00	0.00
ATOM	849	HD13	LEU	53	-5.593	2.438	-3.306	1.00	0.00
ATOM	850	CD2	LEU	53	-5.491	-0.928	-4.065	1.00	0.00

ATOM	851	HD21	LEU	53	-4.728	-1.593	-4.471	1.00	0.00
ATOM	852	HD22	LEU	53	-5.776	-1.269	-3.069	1.00	0.00
ATOM	853	HD23	LEU	53	-6.365	-0.938	-4.716	1.00	0.00
ATOM	854	C	LEU	53	-5.377	1.769	-7.544	1.00	0.00
ATOM	855	O	LEU	53	-5.002	2.772	-8.151	1.00	0.00
ATOM	856	N	GLU	54	-5.596	0.594	-8.098	1.00	0.00
ATOM	857	H	GLU	54	-5.861	-0.177	-7.501	1.00	0.00
ATOM	858	CA	GLU	54	-5.422	0.339	-9.506	1.00	0.00
ATOM	859	HA	GLU	54	-4.379	0.443	-9.806	1.00	0.00
ATOM	860	CB	GLU	54	-5.858	-1.102	-9.751	1.00	0.00
ATOM	861	HB2	GLU	54	-5.150	-1.772	-9.262	1.00	0.00
ATOM	862	HB3	GLU	54	-6.850	-1.248	-9.323	1.00	0.00
ATOM	863	CG	GLU	54	-5.899	-1.409	-11.254	1.00	0.00
ATOM	864	HG2	GLU	54	-6.532	-0.672	-11.748	1.00	0.00
ATOM	865	HG3	GLU	54	-4.888	-1.347	-11.657	1.00	0.00
ATOM	866	CD	GLU	54	-6.461	-2.812	-11.501	1.00	0.00
ATOM	867	OE1	GLU	54	-6.778	-3.492	-10.537	1.00	0.00
ATOM	868	OE2	GLU	54	-6.565	-3.187	-12.658	1.00	0.00
ATOM	869	C	GLU	54	-6.221	1.338	-10.344	1.00	0.00
ATOM	870	O	GLU	54	-5.801	1.720	-11.437	1.00	0.00
ATOM	871	N	GLY	55	-7.360	1.773	-9.810	1.00	0.00
ATOM	872	H	GLY	55	-7.662	1.431	-8.909	1.00	0.00



ATOM	873	CA	GLY	55	-8.203	2.748	-10.500	1.00	0.00
ATOM	874	HA2	GLY	55	-8.110	2.610	-11.577	1.00	0.00
ATOM	875	HA3	GLY	55	-9.242	2.604	-10.203	1.00	0.00
ATOM	876	C	GLY	55	-7.776	4.171	-10.142	1.00	0.00
ATOM	877	O	GLY	55	-8.173	5.135	-10.797	1.00	0.00
ATOM	878	N	MET	56	-6.960	4.285	-9.096	1.00	0.00
ATOM	879	H	MET	56	-6.679	3.458	-8.588	1.00	0.00
ATOM	880	CA	MET	56	-6.465	5.582	-8.638	1.00	0.00
ATOM	881	HA	MET	56	-7.219	6.352	-8.798	1.00	0.00
ATOM	882	CB	MET	56	-6.148	5.510	-7.137	1.00	0.00
ATOM	883	HB2	MET	56	-7.064	5.292	-6.587	1.00	0.00
ATOM	884	HB3	MET	56	-5.422	4.716	-6.962	1.00	0.00
ATOM	885	CG	MET	56	-5.570	6.844	-6.657	1.00	0.00
ATOM	886	HG2	MET	56	-5.189	6.735	-5.641	1.00	0.00
ATOM	887	HG3	MET	56	-4.759	7.152	-7.317	1.00	0.00
ATOM	888	SD	MET	56	-6.864	8.107	-6.674	1.00	0.00
ATOM	889	CE	MET	56	-6.852	8.470	-4.903	1.00	0.00
ATOM	890	HE1	MET	56	-5.863	8.823	-4.610	1.00	0.00
ATOM	891	HE2	MET	56	-7.591	9.240	-4.684	1.00	0.00
ATOM	892	HE3	MET	56	-7.094	7.565	-4.344	1.00	0.00
ATOM	893	C	MET	56	-5.210	5.977	-9.409	1.00	0.00
ATOM	894	O	MET	56	-4.367	5.129	-9.711	1.00	0.00

ATOM	895	N	ASP	57	-5.086	7.269	-9.722	1.00	0.00
ATOM	896	H	ASP	57	-5.809	7.930	-9.475	1.00	0.00
ATOM	897	CA	ASP	57	-3.919	7.759	-10.452	1.00	0.00
ATOM	898	HA	ASP	57	-3.912	7.348	-11.462	1.00	0.00
ATOM	899	CB	ASP	57	-3.959	9.289	-10.545	1.00	0.00
ATOM	900	HB2	ASP	57	-4.031	9.701	-9.538	1.00	0.00
ATOM	901	HB3	ASP	57	-3.040	9.639	-11.015	1.00	0.00
ATOM	902	CG	ASP	57	-5.162	9.748	-11.372	1.00	0.00
ATOM	903	OD1	ASP	57	-5.727	8.931	-12.083	1.00	0.00
ATOM	904	OD2	ASP	57	-5.501	10.917	-11.282	1.00	0.00
ATOM	905	C	ASP	57	-2.636	7.317	-9.752	1.00	0.00
ATOM	906	O	ASP	57	-2.589	7.233	-8.525	1.00	0.00
ATOM	907	N	GLU	58	-1.604	7.023	-10.538	1.00	0.00
ATOM	908	H	GLU	58	-1.689	7.087	-11.542	1.00	0.00
ATOM	909	CA	GLU	58	-0.333	6.572	-9.979	1.00	0.00
ATOM	910	HA	GLU	58	-0.458	5.605	-9.492	1.00	0.00
ATOM	911	CB	GLU	58	0.700	6.426	-11.098	1.00	0.00
ATOM	912	HB2	GLU	58	0.426	5.592	-11.744	1.00	0.00
ATOM	913	HB3	GLU	58	0.737	7.343	-11.685	1.00	0.00
ATOM	914	CG	GLU	58	2.072	6.161	-10.481	1.00	0.00
ATOM	915	HG2	GLU	58	2.338	6.996	-9.833	1.00	0.00
ATOM	916	HG3	GLU	58	2.031	5.244	-9.892	1.00	0.00

ATOM	917	CD	GLU	58	3.123	6.014	-11.578	1.00	0.00
ATOM	918	OE1	GLU	58	3.128	4.984	-12.234	1.00	0.00
ATOM	919	OE2	GLU	58	3.910	6.932	-11.745	1.00	0.00
ATOM	920	C	GLU	58	0.202	7.539	-8.926	1.00	0.00
ATOM	921	O	GLU	58	0.444	7.149	-7.784	1.00	0.00
ATOM	922	N	SER	59	0.389	8.796	-9.314	1.00	0.00
ATOM	923	H	SER	59	0.196	9.074	-10.265	1.00	0.00
ATOM	924	CA	SER	59	0.898	9.803	-8.388	1.00	0.00
ATOM	925	HA	SER	59	1.903	9.536	-8.058	1.00	0.00
ATOM	926	CB	SER	59	0.957	11.164	-9.084	1.00	0.00
ATOM	927	HB2	SER	59	-0.049	11.476	-9.363	1.00	0.00
ATOM	928	HB3	SER	59	1.392	11.901	-8.409	1.00	0.00
ATOM	929	OG	SER	59	1.761	11.059	-10.252	1.00	0.00
ATOM	930	HG	SER	59	1.800	11.911	-10.691	1.00	0.00
ATOM	931	C	SER	59	0.001	9.892	-7.160	1.00	0.00
ATOM	932	O	SER	59	0.467	10.129	-6.045	1.00	0.00
ATOM	933	N	CYX	60	-1.290	9.695	-7.388	1.00	0.00
ATOM	934	H	CYX	60	-1.612	9.527	-8.330	1.00	0.00
ATOM	935	CA	CYX	60	-2.281	9.747	-6.315	1.00	0.00
ATOM	936	HA	CYX	60	-2.085	10.600	-5.666	1.00	0.00
ATOM	937	CB	CYX	60	-3.684	9.894	-6.907	1.00	0.00
ATOM	938	HB2	CYX	60	-3.907	9.029	-7.531	1.00	0.00

ATOM	939	HB3	CYX	60	-4.414	9.957	-6.100	1.00	0.00
ATOM	940	SG	CYX	60	-3.763	11.406	-7.898	1.00	0.00
ATOM	941	C	CYX	60	-2.218	8.494	-5.449	1.00	0.00
ATOM	942	O	CYX	60	-2.624	8.509	-4.286	1.00	0.00
ATOM	943	N	ARG	61	-1.731	7.405	-6.036	1.00	0.00
ATOM	944	H	ARG	61	-1.425	7.442	-6.998	1.00	0.00
ATOM	945	CA	ARG	61	-1.642	6.132	-5.331	1.00	0.00
ATOM	946	HA	ARG	61	-2.627	5.819	-4.985	1.00	0.00
ATOM	947	CB	ARG	61	-1.096	5.064	-6.283	1.00	0.00
ATOM	948	HB2	ARG	61	-1.648	5.106	-7.221	1.00	0.00
ATOM	949	HB3	ARG	61	-0.041	5.261	-6.473	1.00	0.00
ATOM	950	CG	ARG	61	-1.251	3.672	-5.662	1.00	0.00
ATOM	951	HG2	ARG	61	-0.780	3.654	-4.679	1.00	0.00
ATOM	952	HG3	ARG	61	-2.309	3.431	-5.562	1.00	0.00
ATOM	953	CD	ARG	61	-0.577	2.640	-6.568	1.00	0.00
ATOM	954	HD2	ARG	61	0.503	2.791	-6.567	1.00	0.00
ATOM	955	HD3	ARG	61	-0.802	1.632	-6.218	1.00	0.00
ATOM	956	NE	ARG	61	-1.068	2.781	-7.937	1.00	0.00
ATOM	957	HE	ARG	61	-0.671	3.489	-8.538	1.00	0.00
ATOM	958	CZ	ARG	61	-2.035	2.005	-8.422	1.00	0.00
ATOM	959	NH1	ARG	61	-2.550	1.052	-7.691	1.00	0.00
ATOM	960	HH11	ARG	61	-2.212	0.902	-6.751	1.00	0.00

ATOM	961	HH12	ARG	61	-3.283	0.469	-8.069	1.00	0.00
ATOM	962	NH2	ARG	61	-2.465	2.195	-9.638	1.00	0.00
ATOM	963	HH21	ARG	61	-2.062	2.928	-10.204	1.00	0.00
ATOM	964	HH22	ARG	61	-3.198	1.608	-10.008	1.00	0.00
ATOM	965	C	ARG	61	-0.731	6.242	-4.111	1.00	0.00
ATOM	966	O	ARG	61	-1.024	5.670	-3.060	1.00	0.00
ATOM	967	N	CYX	62	0.369	6.980	-4.251	1.00	0.00
ATOM	968	H	CYX	62	0.585	7.426	-5.131	1.00	0.00
ATOM	969	CA	CYX	62	1.303	7.150	-3.142	1.00	0.00
ATOM	970	HA	CYX	62	1.724	6.185	-2.857	1.00	0.00
ATOM	971	CB	CYX	62	2.449	8.081	-3.558	1.00	0.00
ATOM	972	HB2	CYX	62	2.123	9.118	-3.477	1.00	0.00
ATOM	973	HB3	CYX	62	3.306	7.918	-2.904	1.00	0.00
ATOM	974	SG	CYX	62	2.912	7.755	-5.278	1.00	0.00
ATOM	975	C	CYX	62	0.578	7.740	-1.934	1.00	0.00
ATOM	976	O	CYX	62	0.536	7.137	-0.861	1.00	0.00
ATOM	977	N	GLU	63	-0.002	8.922	-2.132	1.00	0.00
ATOM	978	H	GLU	63	0.073	9.373	-3.032	1.00	0.00
ATOM	979	CA	GLU	63	-0.743	9.604	-1.076	1.00	0.00
ATOM	980	HA	GLU	63	-0.088	9.813	-0.229	1.00	0.00
ATOM	981	CB	GLU	63	-1.291	10.930	-1.611	1.00	0.00
ATOM	982	HB2	GLU	63	-0.483	11.487	-2.086	1.00	0.00

ATOM	983	HB3	GLU	63	-2.072	10.727	-2.343	1.00	0.00
ATOM	984	CG	GLU	63	-1.875	11.759	-0.457	1.00	0.00
ATOM	985	HG2	GLU	63	-2.596	11.149	0.088	1.00	0.00
ATOM	986	HG3	GLU	63	-1.065	12.049	0.213	1.00	0.00
ATOM	987	CD	GLU	63	-2.569	13.014	-0.991	1.00	0.00
ATOM	988	OE1	GLU	63	-2.665	13.157	-2.201	1.00	0.00
ATOM	989	OE2	GLU	63	-2.998	13.817	-0.178	1.00	0.00
ATOM	990	C	GLU	63	-1.905	8.745	-0.582	1.00	0.00
ATOM	991	O	GLU	63	-2.235	8.748	0.604	1.00	0.00
ATOM	992	N	GLY	64	-2.538	8.034	-1.516	1.00	0.00
ATOM	993	H	GLY	64	-2.224	8.068	-2.475	1.00	0.00
ATOM	994	CA	GLY	64	-3.689	7.194	-1.193	1.00	0.00
ATOM	995	HA2	GLY	64	-4.521	7.839	-0.913	1.00	0.00
ATOM	996	HA3	GLY	64	-3.957	6.618	-2.078	1.00	0.00
ATOM	997	C	GLY	64	-3.399	6.233	-0.046	1.00	0.00
ATOM	998	O	GLY	64	-4.086	6.257	0.975	1.00	0.00
ATOM	999	N	LEU	65	-2.392	5.383	-0.220	1.00	0.00
ATOM	1000	H	LEU	65	-1.870	5.371	-1.084	1.00	0.00
ATOM	1001	CA	LEU	65	-2.042	4.413	0.813	1.00	0.00
ATOM	1002	HA	LEU	65	-2.878	3.735	0.986	1.00	0.00
ATOM	1003	CB	LEU	65	-0.827	3.589	0.374	1.00	0.00
ATOM	1004	HB2	LEU	65	0.003	4.259	0.151	1.00	0.00

ATOM	1005	HB3	LEU	65	-0.539	2.910	1.177	1.00	0.00
ATOM	1006	CG	LEU	65	-1.180	2.778	-0.878	1.00	0.00
ATOM	1007	HG	LEU	65	-1.409	3.458	-1.698	1.00	0.00
ATOM	1008	CD1	LEU	65	0.007	1.893	-1.266	1.00	0.00
ATOM	1009	HD11	LEU	65	0.237	1.212	-0.446	1.00	0.00
ATOM	1010	HD12	LEU	65	-0.244	1.316	-2.156	1.00	0.00
ATOM	1011	HD13	LEU	65	0.876	2.518	-1.472	1.00	0.00
ATOM	1012	CD2	LEU	65	-2.403	1.896	-0.590	1.00	0.00
ATOM	1013	HD21	LEU	65	-3.249	2.525	-0.315	1.00	0.00
ATOM	1014	HD22	LEU	65	-2.653	1.319	-1.480	1.00	0.00
ATOM	1015	HD23	LEU	65	-2.175	1.215	0.231	1.00	0.00
ATOM	1016	C	LEU	65	-1.747	5.096	2.144	1.00	0.00
ATOM	1017	O	LEU	65	-2.222	4.656	3.189	1.00	0.00
ATOM	1018	N	ARG	66	-0.965	6.173	2.103	1.00	0.00
ATOM	1019	H	ARG	66	-0.577	6.500	1.230	1.00	0.00
ATOM	1020	CA	ARG	66	-0.627	6.896	3.325	1.00	0.00
ATOM	1021	HA	ARG	66	-0.082	6.243	4.008	1.00	0.00
ATOM	1022	CB	ARG	66	0.257	8.102	2.992	1.00	0.00
ATOM	1023	HB2	ARG	66	-0.244	8.725	2.251	1.00	0.00
ATOM	1024	HB3	ARG	66	0.432	8.684	3.897	1.00	0.00
ATOM	1025	CG	ARG	66	1.597	7.618	2.430	1.00	0.00
ATOM	1026	HG2	ARG	66	2.078	6.959	3.154	1.00	0.00

ATOM	1027	HG3 ARG	66	1.426	7.073	1.502	1.00	0.00
ATOM	1028	CD ARG	66	2.503	8.822	2.156	1.00	0.00
ATOM	1029	HD2 ARG	66	3.400	8.497	1.627	1.00	0.00
ATOM	1030	HD3 ARG	66	1.971	9.555	1.551	1.00	0.00
ATOM	1031	NE ARG	66	2.903	9.453	3.412	1.00	0.00
ATOM	1032	HE ARG	66	2.442	10.296	3.722	1.00	0.00
ATOM	1033	CZ ARG	66	3.871	8.942	4.172	1.00	0.00
ATOM	1034	NH1 ARG	66	4.491	7.853	3.803	1.00	0.00
ATOM	1035	HH11 ARG	66	4.235	7.398	2.939	1.00	0.00
ATOM	1036	HH12 ARG	66	5.224	7.471	4.384	1.00	0.00
ATOM	1037	NH2 ARG	66	4.201	9.531	5.287	1.00	0.00
ATOM	1038	HH21 ARG	66	3.722	10.373	5.571	1.00	0.00
ATOM	1039	HH22 ARG	66	4.935	9.142	5.862	1.00	0.00
ATOM	1040	C ARG	66	-1.891	7.372	4.037	1.00	0.00
ATOM	1041	O ARG	66	-2.091	7.096	5.221	1.00	0.00
ATOM	1042	N MET	67	-2.740	8.085	3.301	1.00	0.00
ATOM	1043	H MET	67	-2.517	8.305	2.341	1.00	0.00
ATOM	1044	CA MET	67	-3.989	8.598	3.857	1.00	0.00
ATOM	1045	HA MET	67	-3.785	9.223	4.727	1.00	0.00
ATOM	1046	CB MET	67	-4.715	9.444	2.805	1.00	0.00
ATOM	1047	HB2 MET	67	-4.205	10.401	2.695	1.00	0.00
ATOM	1048	HB3 MET	67	-4.709	8.918	1.850	1.00	0.00



ATOM	1049	CG	MET	67	-6.163	9.684	3.247	1.00	0.00
ATOM	1050	HG2	MET	67	-6.719	8.748	3.203	1.00	0.00
ATOM	1051	HG3	MET	67	-6.176	10.065	4.268	1.00	0.00
ATOM	1052	SD	MET	67	-6.945	10.895	2.149	1.00	0.00
ATOM	1053	CE	MET	67	-5.962	12.333	2.645	1.00	0.00
ATOM	1054	HE1	MET	67	-4.908	12.140	2.444	1.00	0.00
ATOM	1055	HE2	MET	67	-6.285	13.207	2.080	1.00	0.00
ATOM	1056	HE3	MET	67	-6.100	12.518	3.710	1.00	0.00
ATOM	1057	C	MET	67	-4.902	7.467	4.323	1.00	0.00
ATOM	1058	O	MET	67	-5.440	7.505	5.430	1.00	0.00
ATOM	1059	N	MET	68	-5.089	6.477	3.457	1.00	0.00
ATOM	1060	H	MET	68	-4.654	6.508	2.546	1.00	0.00
ATOM	1061	CA	MET	68	-5.961	5.350	3.768	1.00	0.00
ATOM	1062	HA	MET	68	-6.959	5.702	4.026	1.00	0.00
ATOM	1063	CB	MET	68	-6.065	4.438	2.542	1.00	0.00
ATOM	1064	HB2	MET	68	-6.770	4.871	1.833	1.00	0.00
ATOM	1065	HB3	MET	68	-5.084	4.355	2.074	1.00	0.00
ATOM	1066	CG	MET	68	-6.551	3.045	2.959	1.00	0.00
ATOM	1067	HG2	MET	68	-5.760	2.526	3.502	1.00	0.00
ATOM	1068	HG3	MET	68	-7.429	3.137	3.598	1.00	0.00
ATOM	1069	SD	MET	68	-6.986	2.091	1.486	1.00	0.00
ATOM	1070	CE	MET	68	-5.309	1.895	0.838	1.00	0.00

ATOM	1071	HE1	MET	68	-4.696	1.367	1.569	1.00	0.00
ATOM	1072	HE2	MET	68	-5.341	1.323	-0.089	1.00	0.00
ATOM	1073	HE3	MET	68	-4.877	2.876	0.644	1.00	0.00
ATOM	1074	C	MET	68	-5.458	4.562	4.974	1.00	0.00
ATOM	1075	O	MET	68	-6.234	4.241	5.872	1.00	0.00
ATOM	1076	N	MET	69	-4.165	4.249	4.995	1.00	0.00
ATOM	1077	H	MET	69	-3.553	4.510	4.235	1.00	0.00
ATOM	1078	CA	MET	69	-3.600	3.493	6.108	1.00	0.00
ATOM	1079	HA	MET	69	-3.997	2.478	6.111	1.00	0.00
ATOM	1080	CB	MET	69	-2.075	3.422	5.972	1.00	0.00
ATOM	1081	HB2	MET	69	-1.818	3.027	4.989	1.00	0.00
ATOM	1082	HB3	MET	69	-1.655	4.422	6.082	1.00	0.00
ATOM	1083	CG	MET	69	-1.501	2.506	7.056	1.00	0.00
ATOM	1084	HG2	MET	69	-1.805	2.863	8.040	1.00	0.00
ATOM	1085	HG3	MET	69	-1.866	1.489	6.911	1.00	0.00
ATOM	1086	SD	MET	69	0.306	2.509	6.954	1.00	0.00
ATOM	1087	CE	MET	69	0.611	1.278	8.245	1.00	0.00
ATOM	1088	HE1	MET	69	0.133	0.337	7.971	1.00	0.00
ATOM	1089	HE2	MET	69	1.685	1.121	8.353	1.00	0.00
ATOM	1090	HE3	MET	69	0.200	1.632	9.190	1.00	0.00
ATOM	1091	C	MET	69	-3.970	4.148	7.436	1.00	0.00
ATOM	1092	O	MET	69	-4.528	3.504	8.325	1.00	0.00

ATOM	1093	N	ARG	70	-3.660	5.435	7.554	1.00	0.00
ATOM	1094	H	ARG	70	-3.187	5.913	6.801	1.00	0.00
ATOM	1095	CA	ARG	70	-3.965	6.186	8.767	1.00	0.00
ATOM	1096	HA	ARG	70	-3.488	5.720	9.630	1.00	0.00
ATOM	1097	CB	ARG	70	-3.436	7.617	8.629	1.00	0.00
ATOM	1098	HB2	ARG	70	-3.875	8.084	7.748	1.00	0.00
ATOM	1099	HB3	ARG	70	-3.704	8.191	9.516	1.00	0.00
ATOM	1100	CG	ARG	70	-1.911	7.585	8.484	1.00	0.00
ATOM	1101	HG2	ARG	70	-1.473	7.112	9.363	1.00	0.00
ATOM	1102	HG3	ARG	70	-1.643	7.014	7.595	1.00	0.00
ATOM	1103	CD	ARG	70	-1.376	9.013	8.354	1.00	0.00
ATOM	1104	HD2	ARG	70	-1.944	9.556	7.599	1.00	0.00
ATOM	1105	HD3	ARG	70	-1.457	9.529	9.311	1.00	0.00
ATOM	1106	NE	ARG	70	0.028	8.988	7.954	1.00	0.00
ATOM	1107	HE	ARG	70	0.604	8.190	8.183	1.00	0.00
ATOM	1108	CZ	ARG	70	0.580	10.001	7.286	1.00	0.00
ATOM	1109	NH1	ARG	70	-0.129	11.056	6.982	1.00	0.00
ATOM	1110	HH11	ARG	70	-1.100	11.103	7.255	1.00	0.00
ATOM	1111	HH12	ARG	70	0.298	11.818	6.476	1.00	0.00
ATOM	1112	NH2	ARG	70	1.835	9.940	6.934	1.00	0.00
ATOM	1113	HH21	ARG	70	2.384	9.125	7.170	1.00	0.00
ATOM	1114	HH22	ARG	70	2.253	10.708	6.428	1.00	0.00

ATOM	1115	C	ARG	70	-5.471	6.221	9.027	1.00	0.00
ATOM	1116	O	ARG	70	-5.917	6.069	10.164	1.00	0.00
ATOM	1117	N	MET	71	-6.245	6.430	7.961	1.00	0.00
ATOM	1118	H	MET	71	-5.825	6.572	7.054	1.00	0.00
ATOM	1119	CA	MET	71	-7.697	6.495	8.069	1.00	0.00
ATOM	1120	HA	MET	71	-7.984	7.242	8.809	1.00	0.00
ATOM	1121	CB	MET	71	-8.303	6.886	6.718	1.00	0.00
ATOM	1122	HB2	MET	71	-7.787	7.765	6.331	1.00	0.00
ATOM	1123	HB3	MET	71	-8.187	6.059	6.017	1.00	0.00
ATOM	1124	CG	MET	71	-9.792	7.203	6.893	1.00	0.00
ATOM	1125	HG2	MET	71	-10.295	6.357	7.362	1.00	0.00
ATOM	1126	HG3	MET	71	-9.908	8.087	7.520	1.00	0.00
ATOM	1127	SD	MET	71	-10.540	7.519	5.274	1.00	0.00
ATOM	1128	CE	MET	71	-9.603	9.014	4.867	1.00	0.00
ATOM	1129	HE1	MET	71	-8.538	8.781	4.846	1.00	0.00
ATOM	1130	HE2	MET	71	-9.913	9.383	3.890	1.00	0.00
ATOM	1131	HE3	MET	71	-9.792	9.778	5.621	1.00	0.00
ATOM	1132	C	MET	71	-8.268	5.159	8.524	1.00	0.00
ATOM	1133	O	MET	71	-9.216	5.115	9.308	1.00	0.00
ATOM	1134	N	MET	72	-7.695	4.073	8.017	1.00	0.00
ATOM	1135	H	MET	72	-6.933	4.149	7.358	1.00	0.00
ATOM	1136	CA	MET	72	-8.169	2.744	8.373	1.00	0.00

ATOM	1137	HA	MET	72	-9.204	2.619	8.056	1.00	0.00
ATOM	1138	CB	MET	72	-7.313	1.678	7.681	1.00	0.00
ATOM	1139	HB2	MET	72	-6.262	1.959	7.752	1.00	0.00
ATOM	1140	HB3	MET	72	-7.466	0.718	8.175	1.00	0.00
ATOM	1141	CG	MET	72	-7.712	1.563	6.207	1.00	0.00
ATOM	1142	HG2	MET	72	-7.683	2.547	5.740	1.00	0.00
ATOM	1143	HG3	MET	72	-7.022	0.895	5.690	1.00	0.00
ATOM	1144	SD	MET	72	-9.391	0.895	6.085	1.00	0.00
ATOM	1145	CE	MET	72	-9.047	-0.729	6.810	1.00	0.00
ATOM	1146	HE1	MET	72	-8.671	-0.602	7.826	1.00	0.00
ATOM	1147	HE2	MET	72	-9.963	-1.319	6.833	1.00	0.00
ATOM	1148	HE3	MET	72	-8.298	-1.245	6.209	1.00	0.00
ATOM	1149	C	MET	72	-8.122	2.536	9.881	1.00	0.00
ATOM	1150	O	MET	72	-9.137	2.220	10.505	1.00	0.00
ATOM	1151	N	GLN	73	-6.940	2.722	10.459	1.00	0.00
ATOM	1152	H	GLN	73	-6.130	2.958	9.903	1.00	0.00
ATOM	1153	CA	GLN	73	-6.767	2.561	11.897	1.00	0.00
ATOM	1154	HA	GLN	73	-7.056	1.553	12.197	1.00	0.00
ATOM	1155	CB	GLN	73	-5.301	2.783	12.278	1.00	0.00
ATOM	1156	HB2	GLN	73	-5.007	3.797	12.009	1.00	0.00
ATOM	1157	HB3	GLN	73	-5.182	2.644	13.353	1.00	0.00
ATOM	1158	CG	GLN	73	-4.415	1.781	11.533	1.00	0.00

ATOM	1159	HG2	GLN	73	-4.400	1.998	10.465	1.00	0.00
ATOM	1160	HG3	GLN	73	-3.400	1.833	11.928	1.00	0.00
ATOM	1161	CD	GLN	73	-4.943	0.367	11.735	1.00	0.00
ATOM	1162	OE1	GLN	73	-4.907	-0.160	12.847	1.00	0.00
ATOM	1163	NE2	GLN	73	-5.450	-0.274	10.721	1.00	0.00
ATOM	1164	HE21	GLN	73	-5.802	-1.213	10.846	1.00	0.00
ATOM	1165	HE22	GLN	73	-5.488	0.170	9.815	1.00	0.00
ATOM	1166	C	GLN	73	-7.652	3.543	12.658	1.00	0.00
ATOM	1167	O	GLN	73	-8.247	3.199	13.675	1.00	0.00
ATOM	1168	N	GLN	74	-7.724	4.770	12.155	1.00	0.00
ATOM	1169	H	GLN	74	-7.189	5.018	11.335	1.00	0.00
ATOM	1170	CA	GLN	74	-8.529	5.804	12.794	1.00	0.00
ATOM	1171	HA	GLN	74	-8.219	5.935	13.831	1.00	0.00
ATOM	1172	CB	GLN	74	-8.342	7.133	12.055	1.00	0.00
ATOM	1173	HB2	GLN	74	-7.405	7.594	12.368	1.00	0.00
ATOM	1174	HB3	GLN	74	-8.315	6.950	10.981	1.00	0.00
ATOM	1175	CG	GLN	74	-9.506	8.070	12.384	1.00	0.00
ATOM	1176	HG2	GLN	74	-10.048	7.707	13.258	1.00	0.00
ATOM	1177	HG3	GLN	74	-9.130	9.074	12.582	1.00	0.00
ATOM	1178	CD	GLN	74	-10.469	8.134	11.205	1.00	0.00
ATOM	1179	OE1	GLN	74	-10.499	7.148	10.354	1.00	0.00
ATOM	1180	NE2	GLN	74	-11.214	9.103	11.059	1.00	0.00

ATOM	1181	HE21	GLN	74	-11.848	9.134	10.274	1.00	0.00
ATOM	1182	HE22	GLN	74	-11.187	9.861	11.726	1.00	0.00
ATOM	1183	C	GLN	74	-10.009	5.426	12.830	1.00	0.00
ATOM	1184	O	GLN	74	-10.679	5.617	13.846	1.00	0.00
ATOM	1185	N	LYS	75	-10.514	4.904	11.719	1.00	0.00
ATOM	1186	H	LYS	75	-9.935	4.775	10.901	1.00	0.00
ATOM	1187	CA	LYS	75	-11.921	4.526	11.638	1.00	0.00
ATOM	1188	HA	LYS	75	-12.555	5.397	11.803	1.00	0.00
ATOM	1189	CB	LYS	75	-12.221	3.957	10.248	1.00	0.00
ATOM	1190	HB2	LYS	75	-11.889	4.666	9.490	1.00	0.00
ATOM	1191	HB3	LYS	75	-11.687	3.015	10.122	1.00	0.00
ATOM	1192	CG	LYS	75	-13.728	3.715	10.097	1.00	0.00
ATOM	1193	HG2	LYS	75	-13.904	3.058	9.245	1.00	0.00
ATOM	1194	HG3	LYS	75	-14.110	3.244	11.003	1.00	0.00
ATOM	1195	CD	LYS	75	-14.449	5.048	9.871	1.00	0.00
ATOM	1196	HD2	LYS	75	-14.331	5.678	10.753	1.00	0.00
ATOM	1197	HD3	LYS	75	-14.019	5.551	9.005	1.00	0.00
ATOM	1198	CE	LYS	75	-15.937	4.790	9.624	1.00	0.00
ATOM	1199	HE2	LYS	75	-16.326	4.136	10.404	1.00	0.00
ATOM	1200	HE3	LYS	75	-16.477	5.736	9.641	1.00	0.00
ATOM	1201	NZ	LYS	75	-16.116	4.139	8.295	1.00	0.00
ATOM	1202	HZ1	LYS	75	-15.615	3.261	8.280	1.00	0.00

ATOM	1203	HZ2	LYS	75	-17.098	3.969	8.133	1.00	0.00
ATOM	1204	HZ3	LYS	75	-15.755	4.745	7.572	1.00	0.00
ATOM	1205	C	LYS	75	-12.269	3.489	12.702	1.00	0.00
ATOM	1206	O	LYS	75	-13.324	3.563	13.334	1.00	0.00
ATOM	1207	N	GLU	76	-11.375	2.528	12.889	1.00	0.00
ATOM	1208	H	GLU	76	-10.533	2.495	12.331	1.00	0.00
ATOM	1209	CA	GLU	76	-11.592	1.473	13.878	1.00	0.00
ATOM	1210	HA	GLU	76	-11.906	1.907	14.827	1.00	0.00
ATOM	1211	CB	GLU	76	-12.689	0.517	13.389	1.00	0.00
ATOM	1212	HB2	GLU	76	-13.560	1.095	13.082	1.00	0.00
ATOM	1213	HB3	GLU	76	-12.316	-0.056	12.540	1.00	0.00
ATOM	1214	CG	GLU	76	-13.085	-0.444	14.520	1.00	0.00
ATOM	1215	HG2	GLU	76	-13.749	-1.209	14.117	1.00	0.00
ATOM	1216	HG3	GLU	76	-12.185	-0.916	14.915	1.00	0.00
ATOM	1217	CD	GLU	76	-13.799	0.310	15.643	1.00	0.00
ATOM	1218	OE1	GLU	76	-14.417	1.326	15.360	1.00	0.00
ATOM	1219	OE2	GLU	76	-13.717	-0.140	16.774	1.00	0.00
ATOM	1220	C	GLU	76	-10.301	0.697	14.130	1.00	0.00
ATOM	1221	O	GLU	76	-10.144	-0.430	13.656	1.00	0.00
ATOM	1222	N	MET	77	-9.376	1.306	14.865	1.00	0.00
ATOM	1223	H	MET	77	-9.531	2.241	15.213	1.00	0.00
ATOM	1224	CA	MET	77	-8.100	0.660	15.163	1.00	0.00



ATOM	1225	HA	MET	77	-7.548	0.479	14.241	1.00	0.00
ATOM	1226	CB	MET	77	-7.255	1.562	16.071	1.00	0.00
ATOM	1227	HB2	MET	77	-7.189	2.557	15.632	1.00	0.00
ATOM	1228	HB3	MET	77	-7.724	1.629	17.053	1.00	0.00
ATOM	1229	CG	MET	77	-5.848	0.975	16.218	1.00	0.00
ATOM	1230	HG2	MET	77	-5.911	-0.044	16.600	1.00	0.00
ATOM	1231	HG3	MET	77	-5.348	0.968	15.250	1.00	0.00
ATOM	1232	SD	MET	77	-4.891	1.985	17.374	1.00	0.00
ATOM	1233	CE	MET	77	-3.322	1.099	17.208	1.00	0.00
ATOM	1234	HE1	MET	77	-2.989	1.140	16.171	1.00	0.00
ATOM	1235	HE2	MET	77	-2.572	1.563	17.849	1.00	0.00
ATOM	1236	HE3	MET	77	-3.458	0.059	17.505	1.00	0.00
ATOM	1237	C	MET	77	-8.318	-0.693	15.840	1.00	0.00
ATOM	1238	O	MET	77	-8.431	-0.769	17.065	1.00	0.00
ATOM	1239	N	GLN	78	-8.362	-1.757	15.041	1.00	0.00
ATOM	1240	H	GLN	78	-8.281	-1.652	14.040	1.00	0.00
ATOM	1241	CA	GLN	78	-8.547	-3.100	15.583	1.00	0.00
ATOM	1242	HA	GLN	78	-9.533	-3.186	16.040	1.00	0.00
ATOM	1243	CB	GLN	78	-8.434	-4.141	14.462	1.00	0.00
ATOM	1244	HB2	GLN	78	-8.010	-3.672	13.574	1.00	0.00
ATOM	1245	HB3	GLN	78	-7.785	-4.955	14.788	1.00	0.00
ATOM	1246	CG	GLN	78	-9.823	-4.697	14.132	1.00	0.00

ATOM	1247	HG2	GLN	78	-10.270	-5.137	15.024	1.00	0.00
ATOM	1248	HG3	GLN	78	-10.465	-3.899	13.761	1.00	0.00
ATOM	1249	CD	GLN	78	-9.714	-5.776	13.057	1.00	0.00
ATOM	1250	OE1	GLN	78	-8.902	-6.694	13.176	1.00	0.00
ATOM	1251	NE2	GLN	78	-10.489	-5.720	12.008	1.00	0.00
ATOM	1252	HE21	GLN	78	-10.420	-6.432	11.295	1.00	0.00
ATOM	1253	HE22	GLN	78	-11.153	-4.966	11.915	1.00	0.00
ATOM	1254	C	GLN	78	-7.488	-3.372	16.652	1.00	0.00
ATOM	1255	O	GLN	78	-6.309	-3.082	16.441	1.00	0.00
ATOM	1256	N	PRO	79	-7.868	-3.912	17.784	1.00	0.00
ATOM	1257	CD	PRO	79	-9.231	-4.307	18.158	1.00	0.00
ATOM	1258	HD2	PRO	79	-9.509	-5.204	17.604	1.00	0.00
ATOM	1259	HD3	PRO	79	-9.919	-3.499	17.911	1.00	0.00
ATOM	1260	CG	PRO	79	-9.137	-4.554	19.672	1.00	0.00
ATOM	1261	HG2	PRO	79	-9.250	-5.621	19.865	1.00	0.00
ATOM	1262	HG3	PRO	79	-9.937	-4.008	20.171	1.00	0.00
ATOM	1263	CB	PRO	79	-7.799	-4.059	20.113	1.00	0.00
ATOM	1264	HB2	PRO	79	-7.441	-4.719	20.904	1.00	0.00
ATOM	1265	HB3	PRO	79	-7.777	-3.028	20.464	1.00	0.00
ATOM	1266	CA	PRO	79	-6.920	-4.206	18.880	1.00	0.00
ATOM	1267	HA	PRO	79	-6.099	-3.491	18.829	1.00	0.00
ATOM	1268	C	PRO	79	-6.367	-5.619	18.775	1.00	0.00

ATOM	1269	O	PRO	79	-7.087	-6.601	18.964	1.00	0.00
ATOM	1270	N	ARG	80	-5.085	-5.701	18.485	1.00	0.00
ATOM	1271	H	ARG	80	-4.550	-4.860	18.321	1.00	0.00
ATOM	1272	CA	ARG	80	-4.409	-6.983	18.363	1.00	0.00
ATOM	1273	HA	ARG	80	-4.532	-7.554	19.284	1.00	0.00
ATOM	1274	CB	ARG	80	-4.996	-7.791	17.204	1.00	0.00
ATOM	1275	HB2	ARG	80	-5.700	-7.173	16.648	1.00	0.00
ATOM	1276	HB3	ARG	80	-4.193	-8.114	16.541	1.00	0.00
ATOM	1277	CG	ARG	80	-5.723	-9.019	17.759	1.00	0.00
ATOM	1278	HG2	ARG	80	-5.009	-9.831	17.896	1.00	0.00
ATOM	1279	HG3	ARG	80	-6.176	-8.769	18.719	1.00	0.00
ATOM	1280	CD	ARG	80	-6.812	-9.458	16.781	1.00	0.00
ATOM	1281	HD2	ARG	80	-6.655	-8.982	15.813	1.00	0.00
ATOM	1282	HD3	ARG	80	-6.787	-10.541	16.661	1.00	0.00
ATOM	1283	NE	ARG	80	-8.129	-9.072	17.285	1.00	0.00
ATOM	1284	HE	ARG	80	-8.597	-9.659	17.962	1.00	0.00
ATOM	1285	CZ	ARG	80	-8.740	-7.960	16.876	1.00	0.00
ATOM	1286	NH1	ARG	80	-8.164	-7.168	16.012	1.00	0.00
ATOM	1287	HH11	ARG	80	-7.249	-7.400	15.651	1.00	0.00
ATOM	1288	HH12	ARG	80	-8.635	-6.328	15.709	1.00	0.00
ATOM	1289	NH2	ARG	80	-9.920	-7.661	17.343	1.00	0.00
ATOM	1290	HH21	ARG	80	-10.365	-8.273	18.012	1.00	0.00

ATOM	1291	HH22	ARG	80	-10.383	-6.819	17.034	1.00	0.00
ATOM	1292	C	ARG	80	-2.919	-6.764	18.137	1.00	0.00
ATOM	1293	O	ARG	80	-2.530	-6.016	17.239	1.00	0.00
ATOM	1294	N	GLY	81	-2.087	-7.407	18.949	1.00	0.00
ATOM	1295	H	GLY	81	-2.428	-8.017	19.679	1.00	0.00
ATOM	1296	CA	GLY	81	-0.648	-7.245	18.803	1.00	0.00
ATOM	1297	HA2	GLY	81	-0.445	-6.249	18.411	1.00	0.00
ATOM	1298	HA3	GLY	81	-0.182	-7.351	19.783	1.00	0.00
ATOM	1299	C	GLY	81	-0.052	-8.283	17.855	1.00	0.00
ATOM	1300	O	GLY	81	0.326	-7.960	16.732	1.00	0.00
ATOM	1301	N	GLU	82	0.042	-9.523	18.325	1.00	0.00
ATOM	1302	H	GLU	82	-0.258	-9.730	19.267	1.00	0.00
ATOM	1303	CA	GLU	82	0.617	-10.607	17.527	1.00	0.00
ATOM	1304	HA	GLU	82	1.624	-10.343	17.203	1.00	0.00
ATOM	1305	CB	GLU	82	0.693	-11.884	18.370	1.00	0.00
ATOM	1306	HB2	GLU	82	-0.291	-12.102	18.785	1.00	0.00
ATOM	1307	HB3	GLU	82	1.013	-12.714	17.740	1.00	0.00
ATOM	1308	CG	GLU	82	1.700	-11.693	19.514	1.00	0.00
ATOM	1309	HG2	GLU	82	1.992	-12.673	19.892	1.00	0.00
ATOM	1310	HG3	GLU	82	2.579	-11.178	19.126	1.00	0.00
ATOM	1311	CD	GLU	82	1.086	-10.870	20.650	1.00	0.00
ATOM	1312	OE1	GLU	82	-0.127	-10.891	20.795	1.00	0.00

ATOM	1313	OE2	GLU	82	1.842	-10.228	21.361	1.00	0.00
ATOM	1314	C	GLU	82	-0.174	-10.895	16.249	1.00	0.00
ATOM	1315	O	GLU	82	0.414	-11.097	15.186	1.00	0.00
ATOM	1316	N	GLN	83	-1.500	-10.954	16.359	1.00	0.00
ATOM	1317	H	GLN	83	-1.949	-10.811	17.252	1.00	0.00
ATOM	1318	CA	GLN	83	-2.340	-11.267	15.202	1.00	0.00
ATOM	1319	HA	GLN	83	-2.071	-12.242	14.794	1.00	0.00
ATOM	1320	CB	GLN	83	-3.812	-11.303	15.629	1.00	0.00
ATOM	1321	HB2	GLN	83	-3.922	-11.969	16.485	1.00	0.00
ATOM	1322	HB3	GLN	83	-4.131	-10.299	15.908	1.00	0.00
ATOM	1323	CG	GLN	83	-4.678	-11.811	14.472	1.00	0.00
ATOM	1324	HG2	GLN	83	-5.731	-11.632	14.688	1.00	0.00
ATOM	1325	HG3	GLN	83	-4.404	-11.298	13.550	1.00	0.00
ATOM	1326	CD	GLN	83	-4.468	-13.310	14.277	1.00	0.00
ATOM	1327	OE1	GLN	83	-4.863	-14.108	15.126	1.00	0.00
ATOM	1328	NE2	GLN	83	-3.867	-13.741	13.202	1.00	0.00
ATOM	1329	HE21	GLN	83	-3.726	-14.733	13.069	1.00	0.00
ATOM	1330	HE22	GLN	83	-3.545	-13.082	12.508	1.00	0.00
ATOM	1331	C	GLN	83	-2.162	-10.254	14.068	1.00	0.00
ATOM	1332	O	GLN	83	-1.689	-10.600	12.986	1.00	0.00
ATOM	1333	N	MET	84	-2.554	-9.009	14.323	1.00	0.00
ATOM	1334	H	MET	84	-2.996	-8.787	15.204	1.00	0.00

ATOM	1335	CA	MET	84	-2.444	-7.955	13.317	1.00	0.00
ATOM	1336	HA	MET	84	-2.938	-8.267	12.397	1.00	0.00
ATOM	1337	CB	MET	84	-3.109	-6.673	13.818	1.00	0.00
ATOM	1338	HB2	MET	84	-2.848	-6.511	14.864	1.00	0.00
ATOM	1339	HB3	MET	84	-2.766	-5.827	13.223	1.00	0.00
ATOM	1340	CG	MET	84	-4.633	-6.807	13.686	1.00	0.00
ATOM	1341	HG2	MET	84	-4.900	-6.973	12.643	1.00	0.00
ATOM	1342	HG3	MET	84	-4.983	-7.646	14.288	1.00	0.00
ATOM	1343	SD	MET	84	-5.423	-5.286	14.268	1.00	0.00
ATOM	1344	CE	MET	84	-4.943	-4.224	12.883	1.00	0.00
ATOM	1345	HE1	MET	84	-5.348	-4.630	11.956	1.00	0.00
ATOM	1346	HE2	MET	84	-5.335	-3.220	13.042	1.00	0.00
ATOM	1347	HE3	MET	84	-3.856	-4.183	12.816	1.00	0.00
ATOM	1348	C	MET	84	-0.995	-7.692	12.909	1.00	0.00
ATOM	1349	O	MET	84	-0.737	-7.295	11.774	1.00	0.00
ATOM	1350	N	ARG	85	-0.048	-7.907	13.823	1.00	0.00
ATOM	1351	H	ARG	85	-0.276	-8.213	14.758	1.00	0.00
ATOM	1352	CA	ARG	85	1.359	-7.675	13.493	1.00	0.00
ATOM	1353	HA	ARG	85	1.534	-6.610	13.344	1.00	0.00
ATOM	1354	CB	ARG	85	2.262	-8.164	14.631	1.00	0.00
ATOM	1355	HB2	ARG	85	2.031	-7.607	15.539	1.00	0.00
ATOM	1356	HB3	ARG	85	2.083	-9.226	14.802	1.00	0.00

ATOM	1357	CG	ARG	85	3.733	-7.948	14.261	1.00	0.00
ATOM	1358	HG2	ARG	85	3.988	-8.566	13.400	1.00	0.00
ATOM	1359	HG3	ARG	85	3.898	-6.899	14.017	1.00	0.00
ATOM	1360	CD	ARG	85	4.616	-8.340	15.448	1.00	0.00
ATOM	1361	HD2	ARG	85	5.655	-8.085	15.239	1.00	0.00
ATOM	1362	HD3	ARG	85	4.287	-7.816	16.346	1.00	0.00
ATOM	1363	NE	ARG	85	4.527	-9.779	15.687	1.00	0.00
ATOM	1364	HE	ARG	85	4.540	-10.419	14.906	1.00	0.00
ATOM	1365	CZ	ARG	85	4.424	-10.281	16.918	1.00	0.00
ATOM	1366	NH1	ARG	85	4.413	-9.491	17.959	1.00	0.00
ATOM	1367	HH11	ARG	85	4.483	-8.492	17.832	1.00	0.00
ATOM	1368	HH12	ARG	85	4.335	-9.884	18.887	1.00	0.00
ATOM	1369	NH2	ARG	85	4.338	-11.572	17.085	1.00	0.00
ATOM	1370	HH21	ARG	85	4.350	-12.184	16.282	1.00	0.00
ATOM	1371	HH22	ARG	85	4.260	-11.954	18.017	1.00	0.00
ATOM	1372	C	ARG	85	1.715	-8.405	12.201	1.00	0.00
ATOM	1373	O	ARG	85	2.339	-7.834	11.307	1.00	0.00
ATOM	1374	N	ARG	86	1.288	-9.661	12.103	1.00	0.00
ATOM	1375	H	ARG	86	0.795	-10.096	12.870	1.00	0.00
ATOM	1376	CA	ARG	86	1.539	-10.453	10.905	1.00	0.00
ATOM	1377	HA	ARG	86	2.611	-10.522	10.719	1.00	0.00
ATOM	1378	CB	ARG	86	0.983	-11.867	11.092	1.00	0.00

ATOM	1379	HB2 ARG	86	-0.081	-11.813	11.320	1.00	0.00
ATOM	1380	HB3 ARG	86	1.130	-12.440	10.177	1.00	0.00
ATOM	1381	CG ARG	86	1.718	-12.554	12.247	1.00	0.00
ATOM	1382	HG2 ARG	86	2.787	-12.572	12.034	1.00	0.00
ATOM	1383	HG3 ARG	86	1.541	-11.999	13.168	1.00	0.00
ATOM	1384	CD ARG	86	1.207	-13.986	12.410	1.00	0.00
ATOM	1385	HD2 ARG	86	0.119	-13.988	12.464	1.00	0.00
ATOM	1386	HD3 ARG	86	1.530	-14.594	11.565	1.00	0.00
ATOM	1387	NE ARG	86	1.737	-14.573	13.637	1.00	0.00
ATOM	1388	HE ARG	86	2.465	-14.097	14.151	1.00	0.00
ATOM	1389	CZ ARG	86	1.281	-15.732	14.107	1.00	0.00
ATOM	1390	NH1 ARG	86	0.344	-16.379	13.467	1.00	0.00
ATOM	1391	HH11 ARG	86	-0.035	-15.998	12.612	1.00	0.00
ATOM	1392	HH12 ARG	86	0.004	-17.258	13.830	1.00	0.00
ATOM	1393	NH2 ARG	86	1.774	-16.225	15.209	1.00	0.00
ATOM	1394	HH21 ARG	86	2.501	-15.725	15.702	1.00	0.00
ATOM	1395	HH22 ARG	86	1.428	-17.105	15.565	1.00	0.00
ATOM	1396	C ARG	86	0.883	-9.790	9.695	1.00	0.00
ATOM	1397	O ARG	86	1.437	-9.782	8.595	1.00	0.00
ATOM	1398	N MET	87	-0.309	-9.234	9.923	1.00	0.00
ATOM	1399	H MET	87	-0.717	-9.286	10.846	1.00	0.00
ATOM	1400	CA MET	87	-1.064	-8.561	8.868	1.00	0.00



ATOM	1401	HA	MET	87	-1.340	-9.276	8.093	1.00	0.00
ATOM	1402	CB	MET	87	-2.344	-7.949	9.448	1.00	0.00
ATOM	1403	HB2	MET	87	-2.867	-8.701	10.039	1.00	0.00
ATOM	1404	HB3	MET	87	-2.083	-7.104	10.085	1.00	0.00
ATOM	1405	CG	MET	87	-3.252	-7.471	8.310	1.00	0.00
ATOM	1406	HG2	MET	87	-2.644	-7.059	7.505	1.00	0.00
ATOM	1407	HG3	MET	87	-3.836	-8.310	7.931	1.00	0.00
ATOM	1408	SD	MET	87	-4.377	-6.190	8.923	1.00	0.00
ATOM	1409	CE	MET	87	-5.412	-7.245	9.966	1.00	0.00
ATOM	1410	HE1	MET	87	-4.795	-7.718	10.731	1.00	0.00
ATOM	1411	HE2	MET	87	-6.182	-6.640	10.445	1.00	0.00
ATOM	1412	HE3	MET	87	-5.882	-8.014	9.353	1.00	0.00
ATOM	1413	C	MET	87	-0.239	-7.456	8.213	1.00	0.00
ATOM	1414	O	MET	87	-0.428	-7.153	7.037	1.00	0.00
ATOM	1415	N	MET	88	0.659	-6.840	8.982	1.00	0.00
ATOM	1416	H	MET	88	0.782	-7.109	9.948	1.00	0.00
ATOM	1417	CA	MET	88	1.479	-5.752	8.457	1.00	0.00
ATOM	1418	HA	MET	88	0.873	-4.860	8.303	1.00	0.00
ATOM	1419	CB	MET	88	2.585	-5.424	9.460	1.00	0.00
ATOM	1420	HB2	MET	88	3.137	-6.333	9.701	1.00	0.00
ATOM	1421	HB3	MET	88	3.265	-4.693	9.023	1.00	0.00
ATOM	1422	CG	MET	88	1.968	-4.847	10.740	1.00	0.00

ATOM	1423	HG2 MET	88	1.668	-3.813	10.570	1.00	0.00
ATOM	1424	HG3 MET	88	1.096	-5.436	11.026	1.00	0.00
ATOM	1425	SD MET	88	3.187	-4.901	12.078	1.00	0.00
ATOM	1426	CE MET	88	4.616	-4.351	11.116	1.00	0.00
ATOM	1427	HE1 MET	88	4.421	-3.359	10.709	1.00	0.00
ATOM	1428	HE2 MET	88	5.495	-4.312	11.760	1.00	0.00
ATOM	1429	HE3 MET	88	4.796	-5.050	10.299	1.00	0.00
ATOM	1430	C MET	88	2.105	-6.139	7.122	1.00	0.00
ATOM	1431	O MET	88	1.966	-5.419	6.133	1.00	0.00
ATOM	1432	N ARG	89	2.776	-7.286	7.093	1.00	0.00
ATOM	1433	H ARG	89	2.887	-7.842	7.929	1.00	0.00
ATOM	1434	CA ARG	89	3.396	-7.759	5.862	1.00	0.00
ATOM	1435	HA ARG	89	4.120	-7.027	5.503	1.00	0.00
ATOM	1436	CB ARG	89	4.124	-9.083	6.116	1.00	0.00
ATOM	1437	HB2 ARG	89	3.419	-9.814	6.512	1.00	0.00
ATOM	1438	HB3 ARG	89	4.542	-9.452	5.180	1.00	0.00
ATOM	1439	CG ARG	89	5.255	-8.864	7.129	1.00	0.00
ATOM	1440	HG2 ARG	89	4.863	-8.342	8.002	1.00	0.00
ATOM	1441	HG3 ARG	89	5.659	-9.829	7.435	1.00	0.00
ATOM	1442	CD ARG	89	6.366	-8.025	6.489	1.00	0.00
ATOM	1443	HD2 ARG	89	6.717	-8.510	5.578	1.00	0.00
ATOM	1444	HD3 ARG	89	5.987	-7.032	6.249	1.00	0.00

ATOM	1445	NE	ARG	89	7.491	-7.886	7.408	1.00	0.00
ATOM	1446	HE	ARG	89	8.301	-8.482	7.310	1.00	0.00
ATOM	1447	CZ	ARG	89	7.482	-6.982	8.386	1.00	0.00
ATOM	1448	NH1	ARG	89	6.445	-6.205	8.553	1.00	0.00
ATOM	1449	HH11	ARG	89	5.649	-6.292	7.938	1.00	0.00
ATOM	1450	HH12	ARG	89	6.445	-5.522	9.297	1.00	0.00
ATOM	1451	NH2	ARG	89	8.510	-6.874	9.180	1.00	0.00
ATOM	1452	HH21	ARG	89	9.310	-7.477	9.051	1.00	0.00
ATOM	1453	HH22	ARG	89	8.502	-6.188	9.922	1.00	0.00
ATOM	1454	C	ARG	89	2.335	-7.946	4.780	1.00	0.00
ATOM	1455	O	ARG	89	2.527	-7.552	3.629	1.00	0.00
ATOM	1456	N	LEU	90	1.209	-8.541	5.171	1.00	0.00
ATOM	1457	H	LEU	90	1.111	-8.857	6.125	1.00	0.00
ATOM	1458	CA	LEU	90	0.105	-8.774	4.248	1.00	0.00
ATOM	1459	HA	LEU	90	0.439	-9.375	3.402	1.00	0.00
ATOM	1460	CB	LEU	90	-1.014	-9.530	4.974	1.00	0.00
ATOM	1461	HB2	LEU	90	-0.597	-10.407	5.470	1.00	0.00
ATOM	1462	HB3	LEU	90	-1.459	-8.870	5.719	1.00	0.00
ATOM	1463	CG	LEU	90	-2.090	-9.971	3.973	1.00	0.00
ATOM	1464	HG	LEU	90	-1.632	-10.145	3.000	1.00	0.00
ATOM	1465	CD1	LEU	90	-2.746	-11.264	4.466	1.00	0.00
ATOM	1466	HD11	LEU	90	-3.204	-11.091	5.440	1.00	0.00

ATOM	1467	HD12	LEU	90	-3.510	-11.578	3.756	1.00	0.00
ATOM	1468	HD13	LEU	90	-1.990	-12.045	4.555	1.00	0.00
ATOM	1469	CD2	LEU	90	-3.160	-8.879	3.854	1.00	0.00
ATOM	1470	HD21	LEU	90	-2.699	-7.955	3.507	1.00	0.00
ATOM	1471	HD22	LEU	90	-3.923	-9.194	3.143	1.00	0.00
ATOM	1472	HD23	LEU	90	-3.619	-8.712	4.829	1.00	0.00
ATOM	1473	C	LEU	90	-0.430	-7.451	3.710	1.00	0.00
ATOM	1474	O	LEU	90	-0.755	-7.335	2.528	1.00	0.00
ATOM	1475	N	ALA	91	-0.525	-6.460	4.593	1.00	0.00
ATOM	1476	H	ALA	91	-0.264	-6.610	5.558	1.00	0.00
ATOM	1477	CA	ALA	91	-1.030	-5.148	4.209	1.00	0.00
ATOM	1478	HA	ALA	91	-2.070	-5.223	3.892	1.00	0.00
ATOM	1479	CB	ALA	91	-0.949	-4.188	5.399	1.00	0.00
ATOM	1480	HB1	ALA	91	0.088	-4.096	5.723	1.00	0.00
ATOM	1481	HB2	ALA	91	-1.324	-3.209	5.103	1.00	0.00
ATOM	1482	HB3	ALA	91	-1.552	-4.575	6.221	1.00	0.00
ATOM	1483	C	ALA	91	-0.228	-4.589	3.042	1.00	0.00
ATOM	1484	O	ALA	91	-0.795	-4.186	2.033	1.00	0.00
ATOM	1485	N	GLU	92	1.094	-4.577	3.190	1.00	0.00
ATOM	1486	H	GLU	92	1.507	-4.898	4.054	1.00	0.00
ATOM	1487	CA	GLU	92	1.982	-4.077	2.141	1.00	0.00
ATOM	1488	HA	GLU	92	1.747	-3.038	1.912	1.00	0.00

ATOM	1489	CB	GLU	92	3.436	-4.156	2.615	1.00	0.00
ATOM	1490	HB2	GLU	92	3.529	-3.654	3.578	1.00	0.00
ATOM	1491	HB3	GLU	92	3.725	-5.202	2.722	1.00	0.00
ATOM	1492	CG	GLU	92	4.355	-3.474	1.592	1.00	0.00
ATOM	1493	HG2	GLU	92	4.203	-3.937	0.617	1.00	0.00
ATOM	1494	HG3	GLU	92	4.096	-2.417	1.537	1.00	0.00
ATOM	1495	CD	GLU	92	5.822	-3.618	2.001	1.00	0.00
ATOM	1496	OE1	GLU	92	6.085	-4.254	3.012	1.00	0.00
ATOM	1497	OE2	GLU	92	6.664	-3.090	1.295	1.00	0.00
ATOM	1498	C	GLU	92	1.814	-4.879	0.851	1.00	0.00
ATOM	1499	O	GLU	92	2.007	-4.352	-0.244	1.00	0.00
ATOM	1500	N	ASN	93	1.470	-6.157	0.990	1.00	0.00
ATOM	1501	H	ASN	93	1.345	-6.556	1.910	1.00	0.00
ATOM	1502	CA	ASN	93	1.298	-7.028	-0.173	1.00	0.00
ATOM	1503	HA	ASN	93	2.160	-6.942	-0.835	1.00	0.00
ATOM	1504	CB	ASN	93	1.171	-8.487	0.279	1.00	0.00
ATOM	1505	HB2	ASN	93	0.349	-8.585	0.988	1.00	0.00
ATOM	1506	HB3	ASN	93	0.986	-9.129	-0.582	1.00	0.00
ATOM	1507	CG	ASN	93	2.460	-8.945	0.961	1.00	0.00
ATOM	1508	OD1	ASN	93	3.475	-8.129	1.049	1.00	0.00
ATOM	1509	ND2	ASN	93	2.542	-10.082	1.426	1.00	0.00
ATOM	1510	HD21	ASN	93	3.396	-10.380	1.876	1.00	0.00

ATOM	1511	HD22	ASN	93	1.755	-10.711	1.356	1.00	0.00
ATOM	1512	C	ASN	93	0.063	-6.638	-0.986	1.00	0.00
ATOM	1513	O	ASN	93	0.064	-6.751	-2.212	1.00	0.00
ATOM	1514	N	ILE	94	-0.989	-6.186	-0.303	1.00	0.00
ATOM	1515	H	ILE	94	-0.967	-6.144	0.706	1.00	0.00
ATOM	1516	CA	ILE	94	-2.221	-5.794	-0.987	1.00	0.00
ATOM	1517	HA	ILE	94	-2.670	-6.673	-1.450	1.00	0.00
ATOM	1518	CB	ILE	94	-3.209	-5.184	0.020	1.00	0.00
ATOM	1519	HB	ILE	94	-2.661	-4.556	0.723	1.00	0.00
ATOM	1520	CG2	ILE	94	-4.257	-4.337	-0.713	1.00	0.00
ATOM	1521	HG21	ILE	94	-4.805	-4.965	-1.415	1.00	0.00
ATOM	1522	HG22	ILE	94	-4.951	-3.911	0.011	1.00	0.00
ATOM	1523	HG23	ILE	94	-3.760	-3.534	-1.256	1.00	0.00
ATOM	1524	CG1	ILE	94	-3.913	-6.315	0.782	1.00	0.00
ATOM	1525	HG12	ILE	94	-4.701	-6.736	0.158	1.00	0.00
ATOM	1526	HG13	ILE	94	-3.188	-7.093	1.026	1.00	0.00
ATOM	1527	CD1	ILE	94	-4.525	-5.765	2.074	1.00	0.00
ATOM	1528	HD11	ILE	94	-5.249	-4.988	1.832	1.00	0.00
ATOM	1529	HD12	ILE	94	-5.024	-6.571	2.612	1.00	0.00
ATOM	1530	HD13	ILE	94	-3.737	-5.345	2.700	1.00	0.00
ATOM	1531	C	ILE	94	-1.925	-4.803	-2.121	1.00	0.00
ATOM	1532	O	ILE	94	-2.278	-5.053	-3.273	1.00	0.00

ATOM	1533	N	PRO	95	-1.285	-3.698	-1.825	1.00	0.00
ATOM	1534	CD	PRO	95	-0.829	-3.302	-0.484	1.00	0.00
ATOM	1535	HD2	PRO	95	-0.258	-4.121	-0.046	1.00	0.00
ATOM	1536	HD3	PRO	95	-1.698	-3.092	0.140	1.00	0.00
ATOM	1537	CG	PRO	95	0.023	-2.061	-0.732	1.00	0.00
ATOM	1538	HG2	PRO	95	1.073	-2.350	-0.793	1.00	0.00
ATOM	1539	HG3	PRO	95	-0.112	-1.359	0.091	1.00	0.00
ATOM	1540	CB	PRO	95	-0.456	-1.476	-2.014	1.00	0.00
ATOM	1541	HB2	PRO	95	0.374	-0.982	-2.518	1.00	0.00
ATOM	1542	HB3	PRO	95	-1.271	-0.767	-1.875	1.00	0.00
ATOM	1543	CA	PRO	95	-0.936	-2.667	-2.847	1.00	0.00
ATOM	1544	HA	PRO	95	-1.839	-2.439	-3.413	1.00	0.00
ATOM	1545	C	PRO	95	0.162	-3.131	-3.806	1.00	0.00
ATOM	1546	O	PRO	95	0.257	-2.636	-4.925	1.00	0.00
ATOM	1547	N	SER	96	0.981	-4.091	-3.366	1.00	0.00
ATOM	1548	H	SER	96	0.875	-4.465	-2.434	1.00	0.00
ATOM	1549	CA	SER	96	2.056	-4.617	-4.206	1.00	0.00
ATOM	1550	HA	SER	96	2.717	-3.805	-4.509	1.00	0.00
ATOM	1551	CB	SER	96	2.878	-5.657	-3.442	1.00	0.00
ATOM	1552	HB2	SER	96	2.237	-6.492	-3.158	1.00	0.00
ATOM	1553	HB3	SER	96	3.687	-6.020	-4.076	1.00	0.00
ATOM	1554	OG	SER	96	3.423	-5.061	-2.274	1.00	0.00

ATOM	1555	HG	SER	96	3.939	-5.713	-1.793	1.00	0.00
ATOM	1556	C	SER	96	1.443	-5.247	-5.429	1.00	0.00
ATOM	1557	O	SER	96	1.919	-5.097	-6.555	1.00	0.00
ATOM	1558	N	ARG	97	0.362	-5.946	-5.160	1.00	0.00
ATOM	1559	H	ARG	97	0.061	-6.025	-4.199	1.00	0.00
ATOM	1560	CA	ARG	97	-0.400	-6.629	-6.172	1.00	0.00
ATOM	1561	HA	ARG	97	0.192	-7.410	-6.650	1.00	0.00
ATOM	1562	CB	ARG	97	-1.599	-7.276	-5.491	1.00	0.00
ATOM	1563	HB2	ARG	97	-2.058	-6.560	-4.810	1.00	0.00
ATOM	1564	HB3	ARG	97	-2.325	-7.575	-6.246	1.00	0.00
ATOM	1565	CG	ARG	97	-1.144	-8.510	-4.703	1.00	0.00
ATOM	1566	HG2	ARG	97	-0.605	-9.185	-5.368	1.00	0.00
ATOM	1567	HG3	ARG	97	-0.485	-8.198	-3.892	1.00	0.00
ATOM	1568	CD	ARG	97	-2.361	-9.233	-4.121	1.00	0.00
ATOM	1569	HD2	ARG	97	-3.000	-9.590	-4.929	1.00	0.00
ATOM	1570	HD3	ARG	97	-2.034	-10.079	-3.516	1.00	0.00
ATOM	1571	NE	ARG	97	-3.136	-8.326	-3.277	1.00	0.00
ATOM	1572	HE	ARG	97	-2.869	-8.186	-2.313	1.00	0.00
ATOM	1573	CZ	ARG	97	-4.197	-7.670	-3.745	1.00	0.00
ATOM	1574	NH1	ARG	97	-4.583	-7.831	-4.983	1.00	0.00
ATOM	1575	HH11	ARG	97	-4.073	-8.457	-5.590	1.00	0.00
ATOM	1576	HH12	ARG	97	-5.388	-7.329	-5.327	1.00	0.00



ATOM	1577	NH2	ARG	97	-4.854	-6.861	-2.962	1.00	0.00
ATOM	1578	HH21	ARG	97	-4.555	-6.736	-2.005	1.00	0.00
ATOM	1579	HH22	ARG	97	-5.658	-6.363	-3.315	1.00	0.00
ATOM	1580	C	ARG	97	-0.865	-5.672	-7.269	1.00	0.00
ATOM	1581	O	ARG	97	-0.921	-6.046	-8.441	1.00	0.00
ATOM	1582	N	CYX	98	-1.188	-4.437	-6.886	1.00	0.00
ATOM	1583	H	CYX	98	-1.124	-4.169	-5.914	1.00	0.00
ATOM	1584	CA	CYX	98	-1.635	-3.442	-7.848	1.00	0.00
ATOM	1585	HA	CYX	98	-1.950	-3.940	-8.765	1.00	0.00
ATOM	1586	CB	CYX	98	-2.811	-2.635	-7.301	1.00	0.00
ATOM	1587	HB2	CYX	98	-2.445	-1.698	-6.881	1.00	0.00
ATOM	1588	HB3	CYX	98	-3.512	-2.422	-8.107	1.00	0.00
ATOM	1589	SG	CYX	98	-3.640	-3.569	-5.988	1.00	0.00
ATOM	1590	C	CYX	98	-0.515	-2.483	-8.162	1.00	0.00
ATOM	1591	O	CYX	98	-0.632	-1.667	-9.076	1.00	0.00
ATOM	1592	N	ASN	99	0.558	-2.549	-7.380	1.00	0.00
ATOM	1593	H	ASN	99	0.607	-3.180	-6.592	1.00	0.00
ATOM	1594	CA	ASN	99	1.653	-1.632	-7.591	1.00	0.00
ATOM	1595	HA	ASN	99	1.272	-0.618	-7.471	1.00	0.00
ATOM	1596	CB	ASN	99	2.810	-1.827	-6.642	1.00	0.00
ATOM	1597	HB2	ASN	99	2.945	-2.884	-6.413	1.00	0.00
ATOM	1598	HB3	ASN	99	3.725	-1.432	-7.084	1.00	0.00

ATOM	1599	CG	ASN	99	2.534	-1.079	-5.343	1.00	0.00
ATOM	1600	OD1	ASN	99	2.830	-1.576	-4.257	1.00	0.00
ATOM	1601	ND2	ASN	99	1.984	0.105	-5.398	1.00	0.00
ATOM	1602	HD21	ASN	99	1.796	0.611	-4.544	1.00	0.00
ATOM	1603	HD22	ASN	99	1.750	0.508	-6.293	1.00	0.00
ATOM	1604	C	ASN	99	2.149	-1.693	-9.002	1.00	0.00
ATOM	1605	O	ASN	99	1.977	-2.679	-9.722	1.00	0.00
ATOM	1606	N	LEU	100	2.678	-0.568	-9.397	1.00	0.00
ATOM	1607	H	LEU	100	2.780	0.191	-8.738	1.00	0.00
ATOM	1608	CA	LEU	100	3.125	-0.363	-10.749	1.00	0.00
ATOM	1609	HA	LEU	100	3.453	-1.293	-11.213	1.00	0.00
ATOM	1610	CB	LEU	100	1.915	0.172	-11.524	1.00	0.00
ATOM	1611	HB2	LEU	100	2.231	1.042	-12.099	1.00	0.00
ATOM	1612	HB3	LEU	100	1.516	-0.585	-12.199	1.00	0.00
ATOM	1613	CG	LEU	100	0.815	0.593	-10.511	1.00	0.00
ATOM	1614	HG	LEU	100	0.816	-0.100	-9.669	1.00	0.00
ATOM	1615	CD1	LEU	100	1.090	2.009	-10.005	1.00	0.00
ATOM	1616	HD11	LEU	100	1.089	2.702	-10.846	1.00	0.00
ATOM	1617	HD12	LEU	100	0.316	2.298	-9.295	1.00	0.00
ATOM	1618	HD13	LEU	100	2.062	2.037	-9.512	1.00	0.00
ATOM	1619	CD2	LEU	100	-0.556	0.526	-11.167	1.00	0.00
ATOM	1620	HD21	LEU	100	-0.750	-0.494	-11.501	1.00	0.00

ATOM	1621	HD22	LEU	100	-1.318	0.823	-10.447	1.00	0.00
ATOM	1622	HD23	LEU	100	-0.583	1.200	-12.023	1.00	0.00
ATOM	1623	C	LEU	100	4.274	0.640	-10.779	1.00	0.00
ATOM	1624	O	LEU	100	4.248	1.634	-10.056	1.00	0.00
ATOM	1625	N	SER	101	5.278	0.359	-11.613	1.00	0.00
ATOM	1626	H	SER	101	5.244	-0.485	-12.167	1.00	0.00
ATOM	1627	CA	SER	101	6.454	1.225	-11.738	1.00	0.00
ATOM	1628	HA	SER	101	7.191	0.972	-10.975	1.00	0.00
ATOM	1629	CB	SER	101	7.091	1.033	-13.116	1.00	0.00
ATOM	1630	HB2	SER	101	7.378	-0.011	-13.243	1.00	0.00
ATOM	1631	HB3	SER	101	6.376	1.310	-13.890	1.00	0.00
ATOM	1632	OG	SER	101	8.245	1.857	-13.220	1.00	0.00
ATOM	1633	HG	SER	101	8.647	1.738	-14.084	1.00	0.00
ATOM	1634	C	SER	101	6.077	2.694	-11.550	1.00	0.00
ATOM	1635	O	SER	101	5.628	3.358	-12.485	1.00	0.00
ATOM	1636	N	PRO	102	6.248	3.203	-10.355	1.00	0.00
ATOM	1637	CD	PRO	102	6.762	2.497	-9.185	1.00	0.00
ATOM	1638	HD2	PRO	102	7.837	2.655	-9.091	1.00	0.00
ATOM	1639	HD3	PRO	102	6.559	1.429	-9.270	1.00	0.00
ATOM	1640	CG	PRO	102	5.975	3.149	-8.060	1.00	0.00
ATOM	1641	HG2	PRO	102	6.558	3.101	-7.140	1.00	0.00
ATOM	1642	HG3	PRO	102	5.035	2.614	-7.922	1.00	0.00

ATOM	1643	CB	PRO	102	5.727	4.571	-8.480	1.00	0.00
ATOM	1644	HB2	PRO	102	6.470	5.203	-7.993	1.00	0.00
ATOM	1645	HB3	PRO	102	4.728	4.923	-8.225	1.00	0.00
ATOM	1646	CA	PRO	102	5.925	4.611	-10.009	1.00	0.00
ATOM	1647	HA	PRO	102	5.014	4.893	-10.536	1.00	0.00
ATOM	1648	C	PRO	102	7.052	5.563	-10.397	1.00	0.00
ATOM	1649	O	PRO	102	8.170	5.451	-9.890	1.00	0.00
ATOM	1650	N	MET	103	6.756	6.495	-11.299	1.00	0.00
ATOM	1651	H	MET	103	5.833	6.546	-11.706	1.00	0.00
ATOM	1652	CA	MET	103	7.761	7.452	-11.743	1.00	0.00
ATOM	1653	HA	MET	103	8.666	6.928	-12.051	1.00	0.00
ATOM	1654	CB	MET	103	7.228	8.253	-12.936	1.00	0.00
ATOM	1655	HB2	MET	103	6.302	8.751	-12.651	1.00	0.00
ATOM	1656	HB3	MET	103	7.967	8.999	-13.228	1.00	0.00
ATOM	1657	CG	MET	103	6.959	7.311	-14.115	1.00	0.00
ATOM	1658	HG2	MET	103	6.172	6.606	-13.847	1.00	0.00
ATOM	1659	HG3	MET	103	6.646	7.891	-14.982	1.00	0.00
ATOM	1660	SD	MET	103	8.466	6.394	-14.525	1.00	0.00
ATOM	1661	CE	MET	103	9.482	7.811	-15.012	1.00	0.00
ATOM	1662	HE1	MET	103	9.575	8.498	-14.171	1.00	0.00
ATOM	1663	HE2	MET	103	10.472	7.464	-15.308	1.00	0.00
ATOM	1664	HE3	MET	103	9.012	8.324	-15.850	1.00	0.00

ATOM	1665	C	MET	103	8.129	8.405	-10.611	1.00	0.00
ATOM	1666	O	MET	103	9.295	8.497	-10.222	1.00	0.00
ATOM	1667	N	ARG	104	7.128	9.105	-10.080	1.00	0.00
ATOM	1668	H	ARG	104	6.189	9.012	-10.439	1.00	0.00
ATOM	1669	CA	ARG	104	7.360	10.040	-8.983	1.00	0.00
ATOM	1670	HA	ARG	104	8.181	9.689	-8.358	1.00	0.00
ATOM	1671	CB	ARG	104	7.727	11.420	-9.545	1.00	0.00
ATOM	1672	HB2	ARG	104	7.427	11.472	-10.591	1.00	0.00
ATOM	1673	HB3	ARG	104	7.203	12.189	-8.978	1.00	0.00
ATOM	1674	CG	ARG	104	9.241	11.646	-9.435	1.00	0.00
ATOM	1675	HG2	ARG	104	9.763	10.830	-9.936	1.00	0.00
ATOM	1676	HG3	ARG	104	9.499	12.590	-9.914	1.00	0.00
ATOM	1677	CD	ARG	104	9.660	11.691	-7.960	1.00	0.00
ATOM	1678	HD2	ARG	104	9.835	10.678	-7.597	1.00	0.00
ATOM	1679	HD3	ARG	104	10.574	12.276	-7.855	1.00	0.00
ATOM	1680	NE	ARG	104	8.614	12.306	-7.146	1.00	0.00
ATOM	1681	HE	ARG	104	8.012	11.726	-6.579	1.00	0.00
ATOM	1682	CZ	ARG	104	8.426	13.624	-7.129	1.00	0.00
ATOM	1683	NH1	ARG	104	9.189	14.406	-7.845	1.00	0.00
ATOM	1684	HH11	ARG	104	9.924	14.008	-8.412	1.00	0.00
ATOM	1685	HH12	ARG	104	9.041	15.405	-7.827	1.00	0.00
ATOM	1686	NH2	ARG	104	7.479	14.135	-6.394	1.00	0.00

ATOM	1687	HH21	ARG	104	6.891	13.528	-5.840	1.00	0.00
ATOM	1688	HH22	ARG	104	7.338	15.135	-6.382	1.00	0.00
ATOM	1689	C	ARG	104	6.122	10.169	-8.097	1.00	0.00
ATOM	1690	O	ARG	104	4.997	10.226	-8.593	1.00	0.00
ATOM	1691	N	CYX	105	6.347	10.246	-6.786	1.00	0.00
ATOM	1692	H	CYX	105	7.289	10.178	-6.427	1.00	0.00
ATOM	1693	CA	CYX	105	5.253	10.406	-5.832	1.00	0.00
ATOM	1694	HA	CYX	105	4.300	10.234	-6.331	1.00	0.00
ATOM	1695	CB	CYX	105	5.392	9.402	-4.685	1.00	0.00
ATOM	1696	HB2	CYX	105	6.428	9.378	-4.346	1.00	0.00
ATOM	1697	HB3	CYX	105	4.747	9.701	-3.859	1.00	0.00
ATOM	1698	SG	CYX	105	4.933	7.748	-5.265	1.00	0.00
ATOM	1699	C	CYX	105	5.259	11.830	-5.274	1.00	0.00
ATOM	1700	O	CYX	105	6.168	12.202	-4.532	1.00	0.00
ATOM	1701	N	PRO	106	4.276	12.630	-5.616	1.00	0.00
ATOM	1702	CD	PRO	106	3.158	12.283	-6.505	1.00	0.00
ATOM	1703	HD2	PRO	106	2.466	11.630	-5.972	1.00	0.00
ATOM	1704	HD3	PRO	106	3.545	11.763	-7.381	1.00	0.00
ATOM	1705	CG	PRO	106	2.537	13.636	-6.856	1.00	0.00
ATOM	1706	HG2	PRO	106	1.458	13.517	-6.952	1.00	0.00
ATOM	1707	HG3	PRO	106	2.950	13.981	-7.804	1.00	0.00
ATOM	1708	CB	PRO	106	2.886	14.576	-5.749	1.00	0.00

ATOM	1709	HB2 PRO	106	2.092	14.579	-5.002	1.00	0.00
ATOM	1710	HB3 PRO	106	3.041	15.590	-6.118	1.00	0.00
ATOM	1711	CA PRO	106	4.179	14.043	-5.131	1.00	0.00
ATOM	1712	HA PRO	106	5.051	14.579	-5.505	1.00	0.00
ATOM	1713	C PRO	106	4.126	14.157	-3.613	1.00	0.00
ATOM	1714	O PRO	106	3.949	15.247	-3.072	1.00	0.00
ATOM	1715	N MET	107	4.280	13.034	-2.935	1.00	0.00
ATOM	1716	H MET	107	4.438	12.161	-3.418	1.00	0.00
ATOM	1717	CA MET	107	4.248	13.021	-1.484	1.00	0.00
ATOM	1718	HA MET	107	3.421	13.627	-1.114	1.00	0.00
ATOM	1719	CB MET	107	4.056	11.603	-1.009	1.00	0.00
ATOM	1720	HB2 MET	107	4.662	10.937	-1.623	1.00	0.00
ATOM	1721	HB3 MET	107	4.377	11.529	0.030	1.00	0.00
ATOM	1722	CG MET	107	2.581	11.198	-1.118	1.00	0.00
ATOM	1723	HG2 MET	107	2.502	10.264	-1.675	1.00	0.00
ATOM	1724	HG3 MET	107	2.169	11.060	-0.118	1.00	0.00
ATOM	1725	SD MET	107	1.640	12.487	-1.979	1.00	0.00
ATOM	1726	CE MET	107	1.617	11.713	-3.613	1.00	0.00
ATOM	1727	HE1 MET	107	1.122	10.744	-3.550	1.00	0.00
ATOM	1728	HE2 MET	107	1.077	12.352	-4.311	1.00	0.00
ATOM	1729	HE3 MET	107	2.640	11.575	-3.964	1.00	0.00
ATOM	1730	C MET	107	5.555	13.543	-0.933	1.00	0.00

ATOM	1731	O	MET	107	6.504	12.790	-0.706	1.00	0.00
ATOM	1732	N	GLY	108	5.589	14.839	-0.726	1.00	0.00
ATOM	1733	H	GLY	108	4.781	15.409	-0.931	1.00	0.00
ATOM	1734	CA	GLY	108	6.772	15.488	-0.203	1.00	0.00
ATOM	1735	HA2	GLY	108	6.508	16.484	0.151	1.00	0.00
ATOM	1736	HA3	GLY	108	7.167	14.901	0.627	1.00	0.00
ATOM	1737	C	GLY	108	7.846	15.612	-1.278	1.00	0.00
ATOM	1738	O	GLY	108	9.038	15.668	-0.974	1.00	0.00
ATOM	1739	N	GLY	109	7.409	15.661	-2.535	1.00	0.00
ATOM	1740	H	GLY	109	6.420	15.610	-2.732	1.00	0.00
ATOM	1741	CA	GLY	109	8.334	15.788	-3.658	1.00	0.00
ATOM	1742	HA2	GLY	109	7.779	15.679	-4.589	1.00	0.00
ATOM	1743	HA3	GLY	109	8.800	16.773	-3.625	1.00	0.00
ATOM	1744	C	GLY	109	9.425	14.721	-3.603	1.00	0.00
ATOM	1745	O	GLY	109	10.596	15.033	-3.382	1.00	0.00
ATOM	1746	N	SER	110	9.034	13.463	-3.807	1.00	0.00
ATOM	1747	H	SER	110	8.060	13.248	-3.963	1.00	0.00
ATOM	1748	CA	SER	110	9.992	12.358	-3.780	1.00	0.00
ATOM	1749	HA	SER	110	10.422	12.261	-2.783	1.00	0.00
ATOM	1750	CB	SER	110	9.292	11.048	-4.139	1.00	0.00
ATOM	1751	HB2	SER	110	8.928	11.098	-5.165	1.00	0.00
ATOM	1752	HB3	SER	110	9.995	10.220	-4.043	1.00	0.00



ATOM	1753	OG	SER	110	8.196	10.843	-3.256	1.00	0.00
ATOM	1754	HG	SER	110	7.755	10.020	-3.479	1.00	0.00
ATOM	1755	C	SER	110	11.135	12.619	-4.759	1.00	0.00
ATOM	1756	O	SER	110	10.978	13.370	-5.722	1.00	0.00
ATOM	1757	N	ILE	111	12.286	12.002	-4.504	1.00	0.00
ATOM	1758	H	ILE	111	12.384	11.413	-3.689	1.00	0.00
ATOM	1759	CA	ILE	111	13.449	12.186	-5.369	1.00	0.00
ATOM	1760	HA	ILE	111	13.359	13.135	-5.897	1.00	0.00
ATOM	1761	CB	ILE	111	14.731	12.190	-4.528	1.00	0.00
ATOM	1762	HB	ILE	111	14.827	11.236	-4.008	1.00	0.00
ATOM	1763	CG2	ILE	111	15.945	12.398	-5.441	1.00	0.00
ATOM	1764	HG21	ILE	111	15.851	13.351	-5.960	1.00	0.00
ATOM	1765	HG22	ILE	111	16.855	12.400	-4.841	1.00	0.00
ATOM	1766	HG23	ILE	111	15.994	11.590	-6.171	1.00	0.00
ATOM	1767	CG1	ILE	111	14.662	13.328	-3.501	1.00	0.00
ATOM	1768	HG12	ILE	111	14.691	14.286	-4.020	1.00	0.00
ATOM	1769	HG13	ILE	111	13.733	13.249	-2.936	1.00	0.00
ATOM	1770	CD1	ILE	111	15.852	13.231	-2.542	1.00	0.00
ATOM	1771	HD11	ILE	111	16.782	13.309	-3.106	1.00	0.00
ATOM	1772	HD12	ILE	111	15.800	14.040	-1.814	1.00	0.00
ATOM	1773	HD13	ILE	111	15.824	12.273	-2.022	1.00	0.00
ATOM	1774	C	ILE	111	13.518	11.081	-6.421	1.00	0.00

ATOM	1775	O	ILE	111	13.126	11.281	-7.572	1.00	0.00
ATOM	1776	N	ALA	112	13.993	9.908	-6.007	1.00	0.00
ATOM	1777	H	ALA	112	14.294	9.796	-5.049	1.00	0.00
ATOM	1778	CA	ALA	112	14.084	8.764	-6.895	1.00	0.00
ATOM	1779	HA	ALA	112	14.573	9.010	-7.837	1.00	0.00
ATOM	1780	CB	ALA	112	14.861	7.636	-6.223	1.00	0.00
ATOM	1781	HB1	ALA	112	14.378	7.372	-5.282	1.00	0.00
ATOM	1782	HB2	ALA	112	14.879	6.765	-6.878	1.00	0.00
ATOM	1783	HB3	ALA	112	15.882	7.963	-6.027	1.00	0.00
ATOM	1784	C	ALA	112	12.693	8.288	-7.204	1.00	0.00
ATOM	1785	O	ALA	112	11.717	8.966	-6.878	1.00	0.00
ATOM	1786	N	GLY	113	12.579	7.104	-7.777	1.00	0.00
ATOM	1787	H	GLY	113	13.368	6.535	-8.050	1.00	0.00
ATOM	1788	CA	GLY	113	11.260	6.600	-8.023	1.00	0.00
ATOM	1789	HA2	GLY	113	10.606	7.385	-8.400	1.00	0.00
ATOM	1790	HA3	GLY	113	11.284	5.774	-8.734	1.00	0.00
ATOM	1791	C	GLY	113	10.715	6.097	-6.702	1.00	0.00
ATOM	1792	O	GLY	113	11.004	4.978	-6.276	1.00	0.00
ATOM	1793	N	PHE	114	9.955	6.964	-6.050	1.00	0.00
ATOM	1794	H	PHE	114	9.780	7.873	-6.453	1.00	0.00
ATOM	1795	CA	PHE	114	9.378	6.664	-4.744	1.00	0.00
ATOM	1796	HA	PHE	114	10.125	6.802	-3.962	1.00	0.00

ATOM	1797	CB	PHE	114	8.203	7.605	-4.469	1.00	0.00
ATOM	1798	HB2	PHE	114	8.491	8.654	-4.539	1.00	0.00
ATOM	1799	HB3	PHE	114	7.362	7.414	-5.135	1.00	0.00
ATOM	1800	CG	PHE	114	7.697	7.389	-3.060	1.00	0.00
ATOM	1801	CD1	PHE	114	8.305	8.057	-1.989	1.00	0.00
ATOM	1802	HD1	PHE	114	9.143	8.730	-2.170	1.00	0.00
ATOM	1803	CE1	PHE	114	7.836	7.859	-0.685	1.00	0.00
ATOM	1804	HE1	PHE	114	8.309	8.379	0.148	1.00	0.00
ATOM	1805	CZ	PHE	114	6.762	6.994	-0.450	1.00	0.00
ATOM	1806	HZ	PHE	114	6.399	6.840	0.566	1.00	0.00
ATOM	1807	CE2	PHE	114	6.154	6.326	-1.520	1.00	0.00
ATOM	1808	HE2	PHE	114	5.318	5.652	-1.337	1.00	0.00
ATOM	1809	CD2	PHE	114	6.621	6.524	-2.825	1.00	0.00
ATOM	1810	HD2	PHE	114	6.147	6.005	-3.658	1.00	0.00
ATOM	1811	C	PHE	114	8.898	5.213	-4.671	1.00	0.00
ATOM	1812	O	PHE	114	9.299	4.524	-3.748	1.00	0.00
ATOM	1813	OXT	PHE	114	8.136	4.815	-5.538	1.00	0.00
TER									
ATOM	1814	S1	LIG	115	16.459	-12.786	-5.790	1.00	0.00
ATOM	1815	O1	LIG	115	16.631	-14.160	-4.946	1.00	0.00
ATOM	1816	O2	LIG	115	17.812	-12.920	-6.663	1.00	0.00
ATOM	1817	H26	LIG	115	18.580	-12.717	-6.108	1.00	0.00

ATOM	1818	O3	LIG	115	15.362	-12.903	-6.718	1.00	0.00
ATOM	1819	O4	LIG	115	16.573	-11.658	-4.887	1.00	0.00
ATOM	1820	C1	LIG	115	14.408	-19.446	-0.086	1.00	0.00
ATOM	1821	H1	LIG	115	14.605	-20.214	-0.844	1.00	0.00
ATOM	1822	H2	LIG	115	15.345	-19.324	0.473	1.00	0.00
ATOM	1823	C2	LIG	115	13.314	-19.944	0.866	1.00	0.00
ATOM	1824	H3	LIG	115	12.378	-20.068	0.308	1.00	0.00
ATOM	1825	H4	LIG	115	13.117	-19.176	1.625	1.00	0.00
ATOM	1826	C3	LIG	115	14.058	-18.127	-0.782	1.00	0.00
ATOM	1827	H5	LIG	115	13.863	-17.357	-0.023	1.00	0.00
ATOM	1828	H6	LIG	115	13.120	-18.249	-1.339	1.00	0.00
ATOM	1829	C4	LIG	115	13.663	-21.264	1.565	1.00	0.00
ATOM	1830	H7	LIG	115	14.599	-21.141	2.124	1.00	0.00
ATOM	1831	H8	LIG	115	13.862	-22.033	0.807	1.00	0.00
ATOM	1832	C5	LIG	115	15.150	-17.630	-1.737	1.00	0.00
ATOM	1833	H9	LIG	115	16.089	-17.509	-1.182	1.00	0.00
ATOM	1834	H10	LIG	115	15.343	-18.396	-2.498	1.00	0.00
ATOM	1835	C6	LIG	115	12.569	-21.763	2.516	1.00	0.00
ATOM	1836	H11	LIG	115	11.633	-21.886	1.957	1.00	0.00
ATOM	1837	H12	LIG	115	12.371	-20.994	3.275	1.00	0.00
ATOM	1838	C7	LIG	115	14.798	-16.308	-2.429	1.00	0.00
ATOM	1839	H13	LIG	115	13.857	-16.429	-2.982	1.00	0.00

ATOM	1840	H14	LIG	115	14.610	-15.541	-1.667	1.00	0.00
ATOM	1841	C8	LIG	115	12.917	-23.082	3.215	1.00	0.00
ATOM	1842	H15	LIG	115	13.115	-23.853	2.457	1.00	0.00
ATOM	1843	H16	LIG	115	13.854	-22.960	3.773	1.00	0.00
ATOM	1844	C9	LIG	115	15.896	-15.824	-3.386	1.00	0.00
ATOM	1845	H17	LIG	115	16.075	-16.575	-4.162	1.00	0.00
ATOM	1846	H18	LIG	115	16.836	-15.694	-2.841	1.00	0.00
ATOM	1847	C10	LIG	115	11.824	-23.583	4.166	1.00	0.00
ATOM	1848	H19	LIG	115	10.888	-23.704	3.608	1.00	0.00
ATOM	1849	H20	LIG	115	11.627	-22.814	4.924	1.00	0.00
ATOM	1850	C11	LIG	115	15.525	-14.513	-4.050	1.00	0.00
ATOM	1851	H21	LIG	115	14.616	-14.606	-4.650	1.00	0.00
ATOM	1852	H22	LIG	115	15.401	-13.708	-3.321	1.00	0.00
ATOM	1853	C12	LIG	115	12.181	-24.902	4.859	1.00	0.00
ATOM	1854	H23	LIG	115	13.095	-24.801	5.453	1.00	0.00
ATOM	1855	H24	LIG	115	11.383	-25.229	5.530	1.00	0.00
ATOM	1856	H25	LIG	115	12.348	-25.699	4.128	1.00	0.00
TER									
ATOM	1857	S1	LIG	116	-21.339	12.666	5.442	1.00	0.00
ATOM	1858	O1	LIG	116	-21.283	14.045	6.293	1.00	0.00
ATOM	1859	O2	LIG	116	-20.157	11.899	6.232	1.00	0.00
ATOM	1860	H26	LIG	116	-19.298	12.261	5.966	1.00	0.00

ATOM	1861	O3	LIG	116	-22.555	11.949	5.733	1.00	0.00
ATOM	1862	O4	LIG	116	-20.921	12.933	4.081	1.00	0.00
ATOM	1863	C1	LIG	116	-23.667	20.902	8.244	1.00	0.00
ATOM	1864	H1	LIG	116	-23.702	20.583	9.293	1.00	0.00
ATOM	1865	H2	LIG	116	-22.656	21.298	8.081	1.00	0.00
ATOM	1866	C2	LIG	116	-24.689	22.024	8.022	1.00	0.00
ATOM	1867	H3	LIG	116	-25.700	21.629	8.186	1.00	0.00
ATOM	1868	H4	LIG	116	-24.654	22.343	6.973	1.00	0.00
ATOM	1869	C3	LIG	116	-23.886	19.687	7.337	1.00	0.00
ATOM	1870	H5	LIG	116	-23.849	20.007	6.287	1.00	0.00
ATOM	1871	H6	LIG	116	-24.898	19.293	7.499	1.00	0.00
ATOM	1872	C4	LIG	116	-24.471	23.241	8.928	1.00	0.00
ATOM	1873	H7	LIG	116	-23.460	23.637	8.764	1.00	0.00
ATOM	1874	H8	LIG	116	-24.504	22.922	9.977	1.00	0.00
ATOM	1875	C5	LIG	116	-22.867	18.564	7.560	1.00	0.00
ATOM	1876	H9	LIG	116	-21.854	18.957	7.401	1.00	0.00
ATOM	1877	H10	LIG	116	-22.906	18.241	8.608	1.00	0.00
ATOM	1878	C6	LIG	116	-25.493	24.362	8.707	1.00	0.00
ATOM	1879	H11	LIG	116	-26.503	23.967	8.870	1.00	0.00
ATOM	1880	H12	LIG	116	-25.459	24.682	7.657	1.00	0.00
ATOM	1881	C7	LIG	116	-23.087	17.351	6.650	1.00	0.00
ATOM	1882	H13	LIG	116	-24.101	16.961	6.808	1.00	0.00

ATOM	1883	H14	LIG	116	-23.042	17.674	5.602	1.00	0.00
ATOM	1884	C8	LIG	116	-25.276	25.580	9.612	1.00	0.00
ATOM	1885	H15	LIG	116	-25.310	25.262	10.663	1.00	0.00
ATOM	1886	H16	LIG	116	-24.264	25.976	9.450	1.00	0.00
ATOM	1887	C9	LIG	116	-22.064	16.233	6.887	1.00	0.00
ATOM	1888	H17	LIG	116	-22.117	15.889	7.925	1.00	0.00
ATOM	1889	H18	LIG	116	-21.050	16.612	6.724	1.00	0.00
ATOM	1890	C10	LIG	116	-26.297	26.702	9.393	1.00	0.00
ATOM	1891	H19	LIG	116	-27.307	26.306	9.555	1.00	0.00
ATOM	1892	H20	LIG	116	-26.261	27.021	8.344	1.00	0.00
ATOM	1893	C11	LIG	116	-22.301	15.050	5.968	1.00	0.00
ATOM	1894	H21	LIG	116	-23.285	14.603	6.129	1.00	0.00
ATOM	1895	H22	LIG	116	-22.192	15.324	4.915	1.00	0.00
ATOM	1896	C12	LIG	116	-26.072	27.913	10.302	1.00	0.00
ATOM	1897	H23	LIG	116	-25.082	28.352	10.138	1.00	0.00
ATOM	1898	H24	LIG	116	-26.814	28.694	10.120	1.00	0.00
ATOM	1899	H25	LIG	116	-26.137	27.633	11.358	1.00	0.00
TER									
ATOM	1900	S1	LIG	117	10.662	-9.386	25.795	1.00	0.00
ATOM	1901	O1	LIG	117	11.743	-8.464	25.014	1.00	0.00
ATOM	1902	O2	LIG	117	9.349	-8.538	25.390	1.00	0.00
ATOM	1903	H26	LIG	117	9.318	-7.717	25.905	1.00	0.00

ATOM	1904	O3	LIG	117	10.536	-10.667	25.147	1.00	0.00
ATOM	1905	O4	LIG	117	10.890	-9.277	27.222	1.00	0.00
ATOM	1906	C1	LIG	117	18.614	-6.733	22.505	1.00	0.00
ATOM	1907	H1	LIG	117	18.209	-6.630	21.491	1.00	0.00
ATOM	1908	H2	LIG	117	18.532	-5.742	22.968	1.00	0.00
ATOM	1909	C2	LIG	117	20.094	-7.128	22.421	1.00	0.00
ATOM	1910	H3	LIG	117	20.177	-8.120	21.958	1.00	0.00
ATOM	1911	H4	LIG	117	20.499	-7.232	23.436	1.00	0.00
ATOM	1912	C3	LIG	117	17.759	-7.732	23.293	1.00	0.00
ATOM	1913	H5	LIG	117	18.163	-7.833	24.308	1.00	0.00
ATOM	1914	H6	LIG	117	17.845	-8.724	22.831	1.00	0.00
ATOM	1915	C4	LIG	117	20.952	-6.130	21.634	1.00	0.00
ATOM	1916	H7	LIG	117	20.869	-5.138	22.098	1.00	0.00
ATOM	1917	H8	LIG	117	20.546	-6.025	20.620	1.00	0.00
ATOM	1918	C5	LIG	117	16.280	-7.339	23.375	1.00	0.00
ATOM	1919	H9	LIG	117	16.193	-6.346	23.834	1.00	0.00
ATOM	1920	H10	LIG	117	15.873	-7.241	22.360	1.00	0.00
ATOM	1921	C6	LIG	117	22.431	-6.525	21.549	1.00	0.00
ATOM	1922	H11	LIG	117	22.513	-7.517	21.086	1.00	0.00
ATOM	1923	H12	LIG	117	22.837	-6.630	22.564	1.00	0.00
ATOM	1924	C7	LIG	117	15.428	-8.338	24.165	1.00	0.00
ATOM	1925	H13	LIG	117	15.517	-9.331	23.706	1.00	0.00



ATOM	1926	H14	LIG	117	15.831	-8.432	25.181	1.00	0.00
ATOM	1927	C8	LIG	117	23.289	-5.528	20.763	1.00	0.00
ATOM	1928	H15	LIG	117	22.885	-5.423	19.747	1.00	0.00
ATOM	1929	H16	LIG	117	23.206	-4.535	21.225	1.00	0.00
ATOM	1930	C9	LIG	117	13.948	-7.937	24.235	1.00	0.00
ATOM	1931	H17	LIG	117	13.531	-7.862	23.225	1.00	0.00
ATOM	1932	H18	LIG	117	13.849	-6.950	24.698	1.00	0.00
ATOM	1933	C10	LIG	117	24.768	-5.921	20.677	1.00	0.00
ATOM	1934	H19	LIG	117	24.850	-6.913	20.215	1.00	0.00
ATOM	1935	H20	LIG	117	25.173	-6.025	21.691	1.00	0.00
ATOM	1936	C11	LIG	117	13.131	-8.938	25.029	1.00	0.00
ATOM	1937	H21	LIG	117	13.157	-9.932	24.575	1.00	0.00
ATOM	1938	H22	LIG	117	13.463	-9.001	26.068	1.00	0.00
ATOM	1939	C12	LIG	117	25.617	-4.919	19.889	1.00	0.00
ATOM	1940	H23	LIG	117	25.581	-3.925	20.346	1.00	0.00
ATOM	1941	H24	LIG	117	26.665	-5.228	19.848	1.00	0.00
ATOM	1942	H25	LIG	117	25.259	-4.821	18.859	1.00	0.00
TER									
ATOM	1943	S1	LIG	118	9.754	27.226	-7.170	1.00	0.00
ATOM	1944	O1	LIG	118	10.381	26.308	-5.989	1.00	0.00
ATOM	1945	O2	LIG	118	10.654	26.638	-8.375	1.00	0.00
ATOM	1946	H26	LIG	118	11.556	26.987	-8.311	1.00	0.00

ATOM	1947	O3	LIG	118	8.396	26.830	-7.444	1.00	0.00
ATOM	1948	O4	LIG	118	10.108	28.611	-6.931	1.00	0.00
ATOM	1949	C1	LIG	118	10.803	23.668	1.037	1.00	0.00
ATOM	1950	H1	LIG	118	10.755	22.644	0.646	1.00	0.00
ATOM	1951	H2	LIG	118	11.868	23.932	1.070	1.00	0.00
ATOM	1952	C2	LIG	118	10.233	23.693	2.460	1.00	0.00
ATOM	1953	H3	LIG	118	9.168	23.429	2.428	1.00	0.00
ATOM	1954	H4	LIG	118	10.279	24.718	2.851	1.00	0.00
ATOM	1955	C3	LIG	118	10.078	24.612	0.071	1.00	0.00
ATOM	1956	H5	LIG	118	10.127	25.638	0.461	1.00	0.00
ATOM	1957	H6	LIG	118	9.012	24.349	0.040	1.00	0.00
ATOM	1958	C4	LIG	118	10.957	22.751	3.428	1.00	0.00
ATOM	1959	H7	LIG	118	12.022	23.016	3.462	1.00	0.00
ATOM	1960	H8	LIG	118	10.912	21.726	3.037	1.00	0.00
ATOM	1961	C5	LIG	118	10.645	24.585	-1.353	1.00	0.00
ATOM	1962	H9	LIG	118	11.711	24.845	-1.323	1.00	0.00
ATOM	1963	H10	LIG	118	10.593	23.562	-1.745	1.00	0.00
ATOM	1964	C6	LIG	118	10.387	22.775	4.851	1.00	0.00
ATOM	1965	H11	LIG	118	9.322	22.511	4.818	1.00	0.00
ATOM	1966	H12	LIG	118	10.433	23.800	5.242	1.00	0.00
ATOM	1967	C7	LIG	118	9.920	25.532	-2.315	1.00	0.00
ATOM	1968	H13	LIG	118	8.854	25.273	-2.342	1.00	0.00

ATOM	1969	H14	LIG	118	9.977	26.556	-1.925	1.00	0.00
ATOM	1970	C8	LIG	118	11.110	21.833	5.820	1.00	0.00
ATOM	1971	H15	LIG	118	11.065	20.807	5.430	1.00	0.00
ATOM	1972	H16	LIG	118	12.176	22.096	5.852	1.00	0.00
ATOM	1973	C9	LIG	118	10.493	25.492	-3.738	1.00	0.00
ATOM	1974	H17	LIG	118	10.421	24.477	-4.144	1.00	0.00
ATOM	1975	H18	LIG	118	11.556	25.757	-3.721	1.00	0.00
ATOM	1976	C10	LIG	118	10.542	21.856	7.243	1.00	0.00
ATOM	1977	H19	LIG	118	9.477	21.593	7.209	1.00	0.00
ATOM	1978	H20	LIG	118	10.589	22.880	7.633	1.00	0.00
ATOM	1979	C11	LIG	118	9.762	26.443	-4.666	1.00	0.00
ATOM	1980	H21	LIG	118	8.704	26.187	-4.756	1.00	0.00
ATOM	1981	H22	LIG	118	9.862	27.483	-4.343	1.00	0.00
ATOM	1982	C12	LIG	118	11.271	20.910	8.202	1.00	0.00
ATOM	1983	H23	LIG	118	12.331	21.170	8.283	1.00	0.00
ATOM	1984	H24	LIG	118	10.842	20.952	9.207	1.00	0.00
ATOM	1985	H25	LIG	118	11.211	19.874	7.858	1.00	0.00
TER									
ATOM	1986	S1	LIG	119	-24.976	19.284	-10.074	1.00	0.00
ATOM	1987	O1	LIG	119	-25.293	19.923	-11.530	1.00	0.00
ATOM	1988	O2	LIG	119	-25.517	20.524	-9.193	1.00	0.00
ATOM	1989	H26	LIG	119	-24.881	21.255	-9.231	1.00	0.00

ATOM	1990	O3	LIG	119	-25.862	18.178	-9.810	1.00	0.00
ATOM	1991	O4	LIG	119	-23.541	19.162	-9.914	1.00	0.00
ATOM	1992	C1	LIG	119	-25.734	19.796	-19.034	1.00	0.00
ATOM	1993	H1	LIG	119	-26.778	20.126	-18.970	1.00	0.00
ATOM	1994	H2	LIG	119	-25.128	20.710	-19.083	1.00	0.00
ATOM	1995	C2	LIG	119	-25.536	18.991	-20.323	1.00	0.00
ATOM	1996	H3	LIG	119	-26.142	18.077	-20.275	1.00	0.00
ATOM	1997	H4	LIG	119	-24.491	18.659	-20.388	1.00	0.00
ATOM	1998	C3	LIG	119	-25.371	19.017	-17.765	1.00	0.00
ATOM	1999	H5	LIG	119	-24.325	18.688	-17.828	1.00	0.00
ATOM	2000	H6	LIG	119	-25.975	18.101	-17.718	1.00	0.00
ATOM	2001	C4	LIG	119	-25.897	19.768	-21.594	1.00	0.00
ATOM	2002	H7	LIG	119	-25.291	20.683	-21.644	1.00	0.00
ATOM	2003	H8	LIG	119	-26.941	20.101	-21.530	1.00	0.00
ATOM	2004	C5	LIG	119	-25.571	19.820	-16.475	1.00	0.00
ATOM	2005	H9	LIG	119	-24.970	20.737	-16.522	1.00	0.00
ATOM	2006	H10	LIG	119	-26.617	20.146	-16.409	1.00	0.00
ATOM	2007	C6	LIG	119	-25.701	18.963	-22.884	1.00	0.00
ATOM	2008	H11	LIG	119	-26.306	18.049	-22.835	1.00	0.00
ATOM	2009	H12	LIG	119	-24.656	18.631	-22.948	1.00	0.00
ATOM	2010	C7	LIG	119	-25.205	19.039	-15.208	1.00	0.00
ATOM	2011	H13	LIG	119	-25.805	18.122	-15.163	1.00	0.00

ATOM	2012	H14	LIG	119	-24.157	18.719	-15.272	1.00	0.00
ATOM	2013	C8	LIG	119	-26.062	19.740	-24.155	1.00	0.00
ATOM	2014	H15	LIG	119	-27.107	20.072	-24.093	1.00	0.00
ATOM	2015	H16	LIG	119	-25.457	20.655	-24.204	1.00	0.00
ATOM	2016	C9	LIG	119	-25.415	19.853	-13.924	1.00	0.00
ATOM	2017	H17	LIG	119	-26.463	20.159	-13.840	1.00	0.00
ATOM	2018	H18	LIG	119	-24.814	20.767	-13.956	1.00	0.00
ATOM	2019	C10	LIG	119	-25.866	18.936	-25.446	1.00	0.00
ATOM	2020	H19	LIG	119	-26.470	18.022	-25.396	1.00	0.00
ATOM	2021	H20	LIG	119	-24.822	18.606	-25.509	1.00	0.00
ATOM	2022	C11	LIG	119	-25.038	19.059	-12.688	1.00	0.00
ATOM	2023	H21	LIG	119	-25.648	18.159	-12.583	1.00	0.00
ATOM	2024	H22	LIG	119	-23.979	18.785	-12.688	1.00	0.00
ATOM	2025	C12	LIG	119	-26.230	19.721	-26.710	1.00	0.00
ATOM	2026	H23	LIG	119	-25.618	20.624	-26.804	1.00	0.00
ATOM	2027	H24	LIG	119	-26.078	19.121	-27.611	1.00	0.00
ATOM	2028	H25	LIG	119	-27.278	20.034	-26.692	1.00	0.00
TER									
ATOM	2029	S1	LIG	120	-3.728	10.132	-23.690	1.00	0.00
ATOM	2030	O1	LIG	120	-4.159	9.413	-22.302	1.00	0.00
ATOM	2031	O2	LIG	120	-2.136	9.908	-23.543	1.00	0.00
ATOM	2032	H26	LIG	120	-1.779	10.522	-22.883	1.00	0.00

ATOM	2033	O3	LIG	120	-4.149	9.337	-24.816	1.00	0.00
ATOM	2034	O4	LIG	120	-4.031	11.547	-23.604	1.00	0.00
ATOM	2035	C1	LIG	120	-9.098	6.760	-17.294	1.00	0.00
ATOM	2036	H1	LIG	120	-8.585	5.791	-17.314	1.00	0.00
ATOM	2037	H2	LIG	120	-8.610	7.347	-16.505	1.00	0.00
ATOM	2038	C2	LIG	120	-10.571	6.546	-16.925	1.00	0.00
ATOM	2039	H3	LIG	120	-11.059	5.959	-17.713	1.00	0.00
ATOM	2040	H4	LIG	120	-11.085	7.516	-16.906	1.00	0.00
ATOM	2041	C3	LIG	120	-8.902	7.464	-18.642	1.00	0.00
ATOM	2042	H5	LIG	120	-9.414	8.435	-18.621	1.00	0.00
ATOM	2043	H6	LIG	120	-9.393	6.879	-19.430	1.00	0.00
ATOM	2044	C4	LIG	120	-10.770	5.843	-15.577	1.00	0.00
ATOM	2045	H7	LIG	120	-10.282	6.430	-14.787	1.00	0.00
ATOM	2046	H8	LIG	120	-10.255	4.874	-15.595	1.00	0.00
ATOM	2047	C5	LIG	120	-7.430	7.676	-19.013	1.00	0.00
ATOM	2048	H9	LIG	120	-6.937	8.259	-18.224	1.00	0.00
ATOM	2049	H10	LIG	120	-6.918	6.706	-19.038	1.00	0.00
ATOM	2050	C6	LIG	120	-12.242	5.627	-15.208	1.00	0.00
ATOM	2051	H11	LIG	120	-12.730	5.041	-15.997	1.00	0.00
ATOM	2052	H12	LIG	120	-12.756	6.597	-15.189	1.00	0.00
ATOM	2053	C7	LIG	120	-7.237	8.383	-20.359	1.00	0.00
ATOM	2054	H13	LIG	120	-7.732	7.800	-21.147	1.00	0.00

ATOM	2055	H14	LIG	120	-7.745	9.355	-20.332	1.00	0.00
ATOM	2056	C8	LIG	120	-12.441	4.925	-13.860	1.00	0.00
ATOM	2057	H15	LIG	120	-11.928	3.954	-13.877	1.00	0.00
ATOM	2058	H16	LIG	120	-11.953	5.511	-13.071	1.00	0.00
ATOM	2059	C9	LIG	120	-5.760	8.584	-20.722	1.00	0.00
ATOM	2060	H17	LIG	120	-5.250	7.616	-20.772	1.00	0.00
ATOM	2061	H18	LIG	120	-5.260	9.171	-19.945	1.00	0.00
ATOM	2062	C10	LIG	120	-13.913	4.708	-13.489	1.00	0.00
ATOM	2063	H19	LIG	120	-14.401	4.123	-14.279	1.00	0.00
ATOM	2064	H20	LIG	120	-14.426	5.678	-13.470	1.00	0.00
ATOM	2065	C11	LIG	120	-5.599	9.291	-22.054	1.00	0.00
ATOM	2066	H21	LIG	120	-6.039	8.717	-22.873	1.00	0.00
ATOM	2067	H22	LIG	120	-6.032	10.295	-22.036	1.00	0.00
ATOM	2068	C12	LIG	120	-14.101	4.005	-12.142	1.00	0.00
ATOM	2069	H23	LIG	120	-13.653	4.584	-11.328	1.00	0.00
ATOM	2070	H24	LIG	120	-15.160	3.868	-11.907	1.00	0.00
ATOM	2071	H25	LIG	120	-13.631	3.017	-12.142	1.00	0.00
TER									
ATOM	2072	S1	LIG	121	-25.682	-25.403	-7.810	1.00	0.00
ATOM	2073	O1	LIG	121	-24.792	-24.861	-9.052	1.00	0.00
ATOM	2074	O2	LIG	121	-26.660	-24.123	-7.694	1.00	0.00
ATOM	2075	H26	LIG	121	-26.183	-23.384	-7.288	1.00	0.00

ATOM	2076	O3	LIG	121	-26.506	-26.509	-8.231	1.00	0.00
ATOM	2077	O4	LIG	121	-24.846	-25.486	-6.629	1.00	0.00
ATOM	2078	C1	LIG	121	-19.515	-25.454	-14.372	1.00	0.00
ATOM	2079	H1	LIG	121	-20.250	-25.142	-15.125	1.00	0.00
ATOM	2080	H2	LIG	121	-19.044	-24.533	-14.006	1.00	0.00
ATOM	2081	C2	LIG	121	-18.450	-26.333	-15.040	1.00	0.00
ATOM	2082	H3	LIG	121	-18.919	-27.254	-15.407	1.00	0.00
ATOM	2083	H4	LIG	121	-17.714	-26.646	-14.287	1.00	0.00
ATOM	2084	C3	LIG	121	-20.240	-26.147	-13.214	1.00	0.00
ATOM	2085	H5	LIG	121	-19.504	-26.457	-12.460	1.00	0.00
ATOM	2086	H6	LIG	121	-20.708	-27.070	-13.580	1.00	0.00
ATOM	2087	C4	LIG	121	-17.722	-25.642	-16.199	1.00	0.00
ATOM	2088	H7	LIG	121	-17.251	-24.720	-15.832	1.00	0.00
ATOM	2089	H8	LIG	121	-18.457	-25.327	-16.951	1.00	0.00
ATOM	2090	C5	LIG	121	-21.307	-25.271	-12.548	1.00	0.00
ATOM	2091	H9	LIG	121	-20.841	-24.346	-12.183	1.00	0.00
ATOM	2092	H10	LIG	121	-22.044	-24.963	-13.299	1.00	0.00
ATOM	2093	C6	LIG	121	-16.658	-26.519	-16.867	1.00	0.00
ATOM	2094	H11	LIG	121	-17.128	-27.441	-17.234	1.00	0.00
ATOM	2095	H12	LIG	121	-15.922	-26.833	-16.115	1.00	0.00
ATOM	2096	C7	LIG	121	-22.028	-25.965	-11.388	1.00	0.00
ATOM	2097	H13	LIG	121	-22.492	-26.890	-11.753	1.00	0.00



ATOM	2098	H14	LIG	121	-21.290	-26.268	-10.634	1.00	0.00
ATOM	2099	C8	LIG	121	-15.930	-25.829	-18.026	1.00	0.00
ATOM	2100	H15	LIG	121	-16.664	-25.515	-18.780	1.00	0.00
ATOM	2101	H16	LIG	121	-15.460	-24.907	-17.660	1.00	0.00
ATOM	2102	C9	LIG	121	-23.097	-25.080	-10.733	1.00	0.00
ATOM	2103	H17	LIG	121	-23.850	-24.790	-11.474	1.00	0.00
ATOM	2104	H18	LIG	121	-22.642	-24.157	-10.359	1.00	0.00
ATOM	2105	C10	LIG	121	-14.865	-26.706	-18.695	1.00	0.00
ATOM	2106	H19	LIG	121	-15.335	-27.627	-19.060	1.00	0.00
ATOM	2107	H20	LIG	121	-14.131	-27.018	-17.942	1.00	0.00
ATOM	2108	C11	LIG	121	-23.789	-25.789	-9.585	1.00	0.00
ATOM	2109	H21	LIG	121	-24.303	-26.693	-9.919	1.00	0.00
ATOM	2110	H22	LIG	121	-23.090	-26.040	-8.783	1.00	0.00
ATOM	2111	C12	LIG	121	-14.145	-26.007	-19.852	1.00	0.00
ATOM	2112	H23	LIG	121	-13.636	-25.100	-19.511	1.00	0.00
ATOM	2113	H24	LIG	121	-13.392	-26.658	-20.306	1.00	0.00
ATOM	2114	H25	LIG	121	-14.848	-25.715	-20.638	1.00	0.00
TER									
ATOM	2115	S1	LIG	122	-5.962	-13.658	-22.200	1.00	0.00
ATOM	2116	O1	LIG	122	-6.680	-13.237	-20.809	1.00	0.00
ATOM	2117	O2	LIG	122	-5.223	-14.984	-21.648	1.00	0.00
ATOM	2118	H26	LIG	122	-4.464	-14.731	-21.102	1.00	0.00

ATOM	2119	O3	LIG	122	-6.945	-14.106	-23.155	1.00	0.00
ATOM	2120	O4	LIG	122	-4.972	-12.657	-22.543	1.00	0.00
ATOM	2121	C1	LIG	122	-11.253	-9.075	-16.533	1.00	0.00
ATOM	2122	H1	LIG	122	-11.753	-9.990	-16.193	1.00	0.00
ATOM	2123	H2	LIG	122	-10.430	-8.899	-15.828	1.00	0.00
ATOM	2124	C2	LIG	122	-12.238	-7.903	-16.461	1.00	0.00
ATOM	2125	H3	LIG	122	-13.061	-8.079	-17.165	1.00	0.00
ATOM	2126	H4	LIG	122	-11.737	-6.987	-16.803	1.00	0.00
ATOM	2127	C3	LIG	122	-10.677	-9.305	-17.935	1.00	0.00
ATOM	2128	H5	LIG	122	-10.174	-8.390	-18.275	1.00	0.00
ATOM	2129	H6	LIG	122	-11.501	-9.479	-18.640	1.00	0.00
ATOM	2130	C4	LIG	122	-12.814	-7.669	-15.060	1.00	0.00
ATOM	2131	H7	LIG	122	-11.991	-7.492	-14.355	1.00	0.00
ATOM	2132	H8	LIG	122	-13.314	-8.585	-14.718	1.00	0.00
ATOM	2133	C5	LIG	122	-9.694	-10.479	-18.008	1.00	0.00
ATOM	2134	H9	LIG	122	-8.872	-10.308	-17.302	1.00	0.00
ATOM	2135	H10	LIG	122	-10.197	-11.395	-17.672	1.00	0.00
ATOM	2136	C6	LIG	122	-13.800	-6.498	-14.988	1.00	0.00
ATOM	2137	H11	LIG	122	-14.623	-6.675	-15.692	1.00	0.00
ATOM	2138	H12	LIG	122	-13.300	-5.582	-15.330	1.00	0.00
ATOM	2139	C7	LIG	122	-9.119	-10.705	-19.410	1.00	0.00
ATOM	2140	H13	LIG	122	-9.942	-10.874	-20.116	1.00	0.00

ATOM	2141	H14	LIG	122	-8.611	-9.791	-19.743	1.00	0.00
ATOM	2142	C8	LIG	122	-14.377	-6.264	-13.587	1.00	0.00
ATOM	2143	H15	LIG	122	-14.878	-7.179	-13.244	1.00	0.00
ATOM	2144	H16	LIG	122	-13.554	-6.088	-12.882	1.00	0.00
ATOM	2145	C9	LIG	122	-8.141	-11.886	-19.471	1.00	0.00
ATOM	2146	H17	LIG	122	-8.645	-12.808	-19.161	1.00	0.00
ATOM	2147	H18	LIG	122	-7.312	-11.723	-18.775	1.00	0.00
ATOM	2148	C10	LIG	122	-15.363	-5.093	-13.513	1.00	0.00
ATOM	2149	H19	LIG	122	-16.184	-5.269	-14.218	1.00	0.00
ATOM	2150	H20	LIG	122	-14.862	-4.179	-13.855	1.00	0.00
ATOM	2151	C11	LIG	122	-7.582	-12.082	-20.867	1.00	0.00
ATOM	2152	H21	LIG	122	-8.370	-12.300	-21.592	1.00	0.00
ATOM	2153	H22	LIG	122	-7.008	-11.213	-21.200	1.00	0.00
ATOM	2154	C12	LIG	122	-15.934	-4.869	-12.110	1.00	0.00
ATOM	2155	H23	LIG	122	-15.138	-4.656	-11.389	1.00	0.00
ATOM	2156	H24	LIG	122	-16.631	-4.026	-12.092	1.00	0.00
ATOM	2157	H25	LIG	122	-16.472	-5.753	-11.756	1.00	0.00
TER									
ATOM	2158	S1	LIG	123	3.262	-15.010	-17.416	1.00	0.00
ATOM	2159	O1	LIG	123	4.610	-15.903	-17.530	1.00	0.00
ATOM	2160	O2	LIG	123	3.616	-13.967	-18.597	1.00	0.00
ATOM	2161	H26	LIG	123	4.292	-13.344	-18.292	1.00	0.00

ATOM	2162	O3	LIG	123	2.121	-15.766	-17.867	1.00	0.00
ATOM	2163	O4	LIG	123	3.258	-14.319	-16.142	1.00	0.00
ATOM	2164	C1	LIG	123	9.051	-21.716	-15.797	1.00	0.00
ATOM	2165	H1	LIG	123	9.131	-21.962	-16.863	1.00	0.00
ATOM	2166	H2	LIG	123	9.873	-21.021	-15.583	1.00	0.00
ATOM	2167	C2	LIG	123	9.240	-22.991	-14.967	1.00	0.00
ATOM	2168	H3	LIG	123	8.418	-23.687	-15.181	1.00	0.00
ATOM	2169	H4	LIG	123	9.160	-22.746	-13.901	1.00	0.00
ATOM	2170	C3	LIG	123	7.714	-21.012	-15.539	1.00	0.00
ATOM	2171	H5	LIG	123	7.636	-20.763	-14.472	1.00	0.00
ATOM	2172	H6	LIG	123	6.892	-21.708	-15.750	1.00	0.00
ATOM	2173	C4	LIG	123	10.577	-23.697	-15.223	1.00	0.00
ATOM	2174	H7	LIG	123	11.400	-23.002	-15.008	1.00	0.00
ATOM	2175	H8	LIG	123	10.658	-23.943	-16.289	1.00	0.00
ATOM	2176	C5	LIG	123	7.523	-19.738	-16.370	1.00	0.00
ATOM	2177	H9	LIG	123	8.346	-19.042	-16.161	1.00	0.00
ATOM	2178	H10	LIG	123	7.598	-19.986	-17.436	1.00	0.00
ATOM	2179	C6	LIG	123	10.766	-24.973	-14.395	1.00	0.00
ATOM	2180	H11	LIG	123	9.944	-25.668	-14.608	1.00	0.00
ATOM	2181	H12	LIG	123	10.685	-24.728	-13.327	1.00	0.00
ATOM	2182	C7	LIG	123	6.187	-19.035	-16.107	1.00	0.00
ATOM	2183	H13	LIG	123	5.365	-19.732	-16.314	1.00	0.00

ATOM	2184	H14	LIG	123	6.115	-18.782	-15.042	1.00	0.00
ATOM	2185	C8	LIG	123	12.102	-25.680	-14.649	1.00	0.00
ATOM	2186	H15	LIG	123	12.185	-25.927	-15.716	1.00	0.00
ATOM	2187	H16	LIG	123	12.926	-24.985	-14.436	1.00	0.00
ATOM	2188	C9	LIG	123	6.005	-17.764	-16.949	1.00	0.00
ATOM	2189	H17	LIG	123	6.054	-18.010	-18.015	1.00	0.00
ATOM	2190	H18	LIG	123	6.818	-17.059	-16.744	1.00	0.00
ATOM	2191	C10	LIG	123	12.293	-26.956	-13.822	1.00	0.00
ATOM	2192	H19	LIG	123	11.471	-27.649	-14.035	1.00	0.00
ATOM	2193	H20	LIG	123	12.213	-26.709	-12.756	1.00	0.00
ATOM	2194	C11	LIG	123	4.680	-17.086	-16.664	1.00	0.00
ATOM	2195	H21	LIG	123	3.833	-17.734	-16.903	1.00	0.00
ATOM	2196	H22	LIG	123	4.607	-16.757	-15.624	1.00	0.00
ATOM	2197	C12	LIG	123	13.631	-27.654	-14.085	1.00	0.00
ATOM	2198	H23	LIG	123	14.473	-26.996	-13.848	1.00	0.00
ATOM	2199	H24	LIG	123	13.736	-28.558	-13.478	1.00	0.00
ATOM	2200	H25	LIG	123	13.725	-27.946	-15.135	1.00	0.00
TER									
ATOM	2201	S1	LIG	124	-17.692	10.307	-26.344	1.00	0.00
ATOM	2202	O1	LIG	124	-17.618	10.143	-24.733	1.00	0.00
ATOM	2203	O2	LIG	124	-16.258	9.644	-26.676	1.00	0.00
ATOM	2204	H26	LIG	124	-15.550	10.265	-26.447	1.00	0.00

ATOM	2205	O3	LIG	124	-18.688	9.420	-26.891	1.00	0.00
ATOM	2206	O4	LIG	124	-17.666	11.717	-26.678	1.00	0.00
ATOM	2207	C1	LIG	124	-20.364	10.556	-17.747	1.00	0.00
ATOM	2208	H1	LIG	124	-20.095	9.504	-17.588	1.00	0.00
ATOM	2209	H2	LIG	124	-19.490	11.144	-17.440	1.00	0.00
ATOM	2210	C2	LIG	124	-21.554	10.915	-16.848	1.00	0.00
ATOM	2211	H3	LIG	124	-22.429	10.327	-17.155	1.00	0.00
ATOM	2212	H4	LIG	124	-21.824	11.967	-17.008	1.00	0.00
ATOM	2213	C3	LIG	124	-20.632	10.789	-19.238	1.00	0.00
ATOM	2214	H5	LIG	124	-20.900	11.842	-19.398	1.00	0.00
ATOM	2215	H6	LIG	124	-21.509	10.203	-19.544	1.00	0.00
ATOM	2216	C4	LIG	124	-21.288	10.683	-15.356	1.00	0.00
ATOM	2217	H7	LIG	124	-20.413	11.272	-15.049	1.00	0.00
ATOM	2218	H8	LIG	124	-21.016	9.632	-15.196	1.00	0.00
ATOM	2219	C5	LIG	124	-19.445	10.428	-20.137	1.00	0.00
ATOM	2220	H9	LIG	124	-18.567	11.011	-19.831	1.00	0.00
ATOM	2221	H10	LIG	124	-19.179	9.375	-19.981	1.00	0.00
ATOM	2222	C6	LIG	124	-22.477	11.041	-14.457	1.00	0.00
ATOM	2223	H11	LIG	124	-23.351	10.453	-14.764	1.00	0.00
ATOM	2224	H12	LIG	124	-22.748	12.093	-14.617	1.00	0.00
ATOM	2225	C7	LIG	124	-19.715	10.665	-21.627	1.00	0.00
ATOM	2226	H13	LIG	124	-20.594	10.082	-21.932	1.00	0.00

ATOM	2227	H14	LIG	124	-19.976	11.719	-21.783	1.00	0.00
ATOM	2228	C8	LIG	124	-22.212	10.810	-12.966	1.00	0.00
ATOM	2229	H15	LIG	124	-21.941	9.758	-12.804	1.00	0.00
ATOM	2230	H16	LIG	124	-21.337	11.398	-12.658	1.00	0.00
ATOM	2231	C9	LIG	124	-18.521	10.294	-22.517	1.00	0.00
ATOM	2232	H17	LIG	124	-18.267	9.237	-22.384	1.00	0.00
ATOM	2233	H18	LIG	124	-17.641	10.876	-22.225	1.00	0.00
ATOM	2234	C10	LIG	124	-23.400	11.167	-12.065	1.00	0.00
ATOM	2235	H19	LIG	124	-24.274	10.580	-12.373	1.00	0.00
ATOM	2236	H20	LIG	124	-23.670	12.219	-12.226	1.00	0.00
ATOM	2237	C11	LIG	124	-18.813	10.545	-23.984	1.00	0.00
ATOM	2238	H21	LIG	124	-19.655	9.946	-24.337	1.00	0.00
ATOM	2239	H22	LIG	124	-19.007	11.602	-24.184	1.00	0.00
ATOM	2240	C12	LIG	124	-23.125	10.932	-10.577	1.00	0.00
ATOM	2241	H23	LIG	124	-22.277	11.532	-10.233	1.00	0.00
ATOM	2242	H24	LIG	124	-23.991	11.198	-9.964	1.00	0.00
ATOM	2243	H25	LIG	124	-22.888	9.882	-10.380	1.00	0.00
TER									
EMD									

**Table H:** The number of atoms present in the system of BE-Sum

ATOM	1	N	GLU	1	9.101	17.697	-4.770	1.00	0.00
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ATOM	2	H1	GLU	1	9.411	18.312	-5.508	1.00	0.00
ATOM	3	H2	GLU	1	9.508	16.784	-4.916	1.00	0.00
ATOM	4	H3	GLU	1	9.221	18.167	-3.884	1.00	0.00
ATOM	5	CA	GLU	1	7.631	17.501	-4.916	1.00	0.00
ATOM	6	HA	GLU	1	7.402	16.444	-5.056	1.00	0.00
ATOM	7	CB	GLU	1	6.924	17.991	-3.649	1.00	0.00
ATOM	8	HB2	GLU	1	7.345	17.485	-2.780	1.00	0.00
ATOM	9	HB3	GLU	1	7.067	19.066	-3.547	1.00	0.00
ATOM	10	CG	GLU	1	5.426	17.682	-3.744	1.00	0.00
ATOM	11	HG2	GLU	1	5.029	18.126	-4.656	1.00	0.00
ATOM	12	HG3	GLU	1	5.282	16.602	-3.773	1.00	0.00
ATOM	13	CD	GLU	1	4.694	18.260	-2.537	1.00	0.00
ATOM	14	OE1	GLU	1	4.823	17.694	-1.463	1.00	0.00
ATOM	15	OE2	GLU	1	4.012	19.258	-2.704	1.00	0.00
ATOM	16	C	GLU	1	7.135	18.282	-6.131	1.00	0.00
ATOM	17	O	GLU	1	6.990	19.504	-6.078	1.00	0.00
ATOM	18	N	ALA	2	6.875	17.565	-7.222	1.00	0.00
ATOM	19	H	ALA	2	7.027	16.566	-7.224	1.00	0.00
ATOM	20	CA	ALA	2	6.391	18.195	-8.447	1.00	0.00
ATOM	21	HA	ALA	2	7.047	19.018	-8.730	1.00	0.00
ATOM	22	CB	ALA	2	6.367	17.175	-9.587	1.00	0.00
ATOM	23	HB1	ALA	2	5.707	16.349	-9.322	1.00	0.00



ATOM	24	HB2 ALA	2	6.003	17.653	-10.496	1.00	0.00
ATOM	25	HB3 ALA	2	7.375	16.794	-9.756	1.00	0.00
ATOM	26	C ALA	2	4.990	18.763	-8.242	1.00	0.00
ATOM	27	O ALA	2	4.197	18.220	-7.474	1.00	0.00
ATOM	28	N GLU	3	4.695	19.859	-8.934	1.00	0.00
ATOM	29	H GLU	3	5.388	20.286	-9.531	1.00	0.00
ATOM	30	CA GLU	3	3.386	20.497	-8.826	1.00	0.00
ATOM	31	HA GLU	3	3.175	20.740	-7.784	1.00	0.00
ATOM	32	CB GLU	3	3.361	21.795	-9.648	1.00	0.00
ATOM	33	HB2 GLU	3	2.466	22.361	-9.390	1.00	0.00
ATOM	34	HB3 GLU	3	4.246	22.385	-9.407	1.00	0.00
ATOM	35	CG GLU	3	3.351	21.478	-11.151	1.00	0.00
ATOM	36	HG2 GLU	3	2.470	20.880	-11.383	1.00	0.00
ATOM	37	HG3 GLU	3	3.312	22.413	-11.709	1.00	0.00
ATOM	38	CD GLU	3	4.609	20.703	-11.543	1.00	0.00
ATOM	39	OE1 GLU	3	5.694	21.208	-11.305	1.00	0.00
ATOM	40	OE2 GLU	3	4.468	19.613	-12.075	1.00	0.00
ATOM	41	C GLU	3	2.283	19.556	-9.309	1.00	0.00
ATOM	42	O GLU	3	1.125	19.687	-8.910	1.00	0.00
ATOM	43	N ALA	4	2.653	18.612	-10.172	1.00	0.00
ATOM	44	H ALA	4	3.609	18.564	-10.495	1.00	0.00
ATOM	45	CA ALA	4	1.691	17.653	-10.710	1.00	0.00

ATOM	46	HA	ALA	4	0.794	18.182	-11.030	1.00	0.00
ATOM	47	CB	ALA	4	2.288	16.928	-11.918	1.00	0.00
ATOM	48	HB1	ALA	4	3.183	16.386	-11.611	1.00	0.00
ATOM	49	HB2	ALA	4	1.557	16.225	-12.318	1.00	0.00
ATOM	50	HB3	ALA	4	2.550	17.655	-12.686	1.00	0.00
ATOM	51	C	ALA	4	1.277	16.643	-9.651	1.00	0.00
ATOM	52	O	ALA	4	0.425	15.787	-9.894	1.00	0.00
ATOM	53	N	GLN	5	1.876	16.758	-8.475	1.00	0.00
ATOM	54	H	GLN	5	2.570	17.477	-8.328	1.00	0.00
ATOM	55	CA	GLN	5	1.562	15.866	-7.369	1.00	0.00
ATOM	56	HA	GLN	5	1.929	14.859	-7.572	1.00	0.00
ATOM	57	CB	GLN	5	2.241	16.387	-6.107	1.00	0.00
ATOM	58	HB2	GLN	5	3.317	16.441	-6.274	1.00	0.00
ATOM	59	HB3	GLN	5	1.859	17.382	-5.878	1.00	0.00
ATOM	60	CG	GLN	5	1.954	15.447	-4.931	1.00	0.00
ATOM	61	HG2	GLN	5	0.882	15.271	-4.846	1.00	0.00
ATOM	62	HG3	GLN	5	2.467	14.497	-5.084	1.00	0.00
ATOM	63	CD	GLN	5	2.451	16.065	-3.628	1.00	0.00
ATOM	64	OE1	GLN	5	2.063	17.181	-3.281	1.00	0.00
ATOM	65	NE2	GLN	5	3.289	15.402	-2.880	1.00	0.00
ATOM	66	HE21	GLN	5	3.621	15.807	-2.016	1.00	0.00
ATOM	67	HE22	GLN	5	3.603	14.486	-3.168	1.00	0.00

ATOM	68	C	GLN	5	0.053	15.807	-7.144	1.00	0.00
ATOM	69	O	GLN	5	-0.497	14.754	-6.822	1.00	0.00
ATOM	70	N	GLU	6	-0.606	16.952	-7.311	1.00	0.00
ATOM	71	H	GLU	6	-0.104	17.796	-7.546	1.00	0.00
ATOM	72	CA	GLU	6	-2.050	17.035	-7.121	1.00	0.00
ATOM	73	HA	GLU	6	-2.304	16.843	-6.078	1.00	0.00
ATOM	74	CB	GLU	6	-2.540	18.439	-7.495	1.00	0.00
ATOM	75	HB2	GLU	6	-3.606	18.515	-7.284	1.00	0.00
ATOM	76	HB3	GLU	6	-1.999	19.178	-6.903	1.00	0.00
ATOM	77	CG	GLU	6	-2.294	18.699	-8.986	1.00	0.00
ATOM	78	HG2	GLU	6	-1.260	18.451	-9.227	1.00	0.00
ATOM	79	HG3	GLU	6	-2.964	18.073	-9.575	1.00	0.00
ATOM	80	CD	GLU	6	-2.554	20.168	-9.309	1.00	0.00
ATOM	81	OE1	GLU	6	-3.713	20.546	-9.365	1.00	0.00
ATOM	82	OE2	GLU	6	-1.590	20.892	-9.496	1.00	0.00
ATOM	83	C	GLU	6	-2.778	15.985	-7.960	1.00	0.00
ATOM	84	O	GLU	6	-3.694	15.323	-7.473	1.00	0.00
ATOM	85	N	GLU	7	-2.356	15.824	-9.215	1.00	0.00
ATOM	86	H	GLU	7	-1.608	16.395	-9.583	1.00	0.00
ATOM	87	CA	GLU	7	-2.968	14.836	-10.095	1.00	0.00
ATOM	88	HA	GLU	7	-4.018	15.081	-10.253	1.00	0.00
ATOM	89	CB	GLU	7	-2.258	14.820	-11.455	1.00	0.00

ATOM	90	HB2	GLU	7	-2.455	15.756	-11.976	1.00	0.00
ATOM	91	HB3	GLU	7	-1.184	14.709	-11.301	1.00	0.00
ATOM	92	CG	GLU	7	-2.777	13.646	-12.298	1.00	0.00
ATOM	93	HG2	GLU	7	-3.793	13.406	-11.983	1.00	0.00
ATOM	94	HG3	GLU	7	-2.780	13.931	-13.350	1.00	0.00
ATOM	95	CD	GLU	7	-1.883	12.423	-12.105	1.00	0.00
ATOM	96	OE1	GLU	7	-0.713	12.508	-12.441	1.00	0.00
ATOM	97	OE2	GLU	7	-2.382	11.417	-11.628	1.00	0.00
ATOM	98	C	GLU	7	-2.878	13.461	-9.459	1.00	0.00
ATOM	99	O	GLU	7	-3.818	12.668	-9.520	1.00	0.00
ATOM	100	N	CYX	8	-1.725	13.188	-8.857	1.00	0.00
ATOM	101	H	CYX	8	-0.975	13.865	-8.849	1.00	0.00
ATOM	102	CA	CYX	8	-1.499	11.907	-8.221	1.00	0.00
ATOM	103	HA	CYX	8	-1.756	11.099	-8.906	1.00	0.00
ATOM	104	CB	CYX	8	-0.024	11.768	-7.832	1.00	0.00
ATOM	105	HB2	CYX	8	0.227	12.518	-7.082	1.00	0.00
ATOM	106	HB3	CYX	8	0.153	10.773	-7.423	1.00	0.00
ATOM	107	SG	CYX	8	1.013	12.007	-9.295	1.00	0.00
ATOM	108	C	CYX	8	-2.369	11.758	-6.980	1.00	0.00
ATOM	109	O	CYX	8	-3.156	10.818	-6.878	1.00	0.00
ATOM	110	N	ARG	9	-2.220	12.692	-6.044	1.00	0.00
ATOM	111	H	ARG	9	-1.545	13.433	-6.168	1.00	0.00

ATOM	112	CA	ARG	9	-2.993	12.659	-4.806	1.00	0.00
ATOM	113	HA	ARG	9	-2.727	11.778	-4.221	1.00	0.00
ATOM	114	CB	ARG	9	-2.692	13.908	-3.974	1.00	0.00
ATOM	115	HB2	ARG	9	-1.616	13.988	-3.818	1.00	0.00
ATOM	116	HB3	ARG	9	-3.048	14.790	-4.504	1.00	0.00
ATOM	117	CG	ARG	9	-3.398	13.808	-2.617	1.00	0.00
ATOM	118	HG2	ARG	9	-4.477	13.781	-2.770	1.00	0.00
ATOM	119	HG3	ARG	9	-3.081	12.897	-2.109	1.00	0.00
ATOM	120	CD	ARG	9	-3.035	15.022	-1.760	1.00	0.00
ATOM	121	HD2	ARG	9	-3.415	14.888	-0.747	1.00	0.00
ATOM	122	HD3	ARG	9	-1.952	15.143	-1.728	1.00	0.00
ATOM	123	NE	ARG	9	-3.625	16.233	-2.325	1.00	0.00
ATOM	124	HE	ARG	9	-4.299	16.166	-3.074	1.00	0.00
ATOM	125	CZ	ARG	9	-3.292	17.442	-1.875	1.00	0.00
ATOM	126	NH1	ARG	9	-2.426	17.567	-0.906	1.00	0.00
ATOM	127	HH11	ARG	9	-2.008	16.743	-0.497	1.00	0.00
ATOM	128	HH12	ARG	9	-2.178	18.486	-0.570	1.00	0.00
ATOM	129	NH2	ARG	9	-3.835	18.504	-2.402	1.00	0.00
ATOM	130	HH21	ARG	9	-4.506	18.405	-3.150	1.00	0.00
ATOM	131	HH22	ARG	9	-3.581	19.419	-2.059	1.00	0.00
ATOM	132	C	ARG	9	-4.488	12.582	-5.098	1.00	0.00
ATOM	133	O	ARG	9	-5.211	11.814	-4.466	1.00	0.00

ATOM	134	N	GLU	10	-4.946	13.380	-6.059	1.00	0.00
ATOM	135	H	GLU	10	-4.323	14.010	-6.544	1.00	0.00
ATOM	136	CA	GLU	10	-6.359	13.386	-6.424	1.00	0.00
ATOM	137	HA	GLU	10	-6.968	13.659	-5.562	1.00	0.00
ATOM	138	CB	GLU	10	-6.602	14.408	-7.539	1.00	0.00
ATOM	139	HB2	GLU	10	-6.342	15.403	-7.179	1.00	0.00
ATOM	140	HB3	GLU	10	-5.979	14.159	-8.398	1.00	0.00
ATOM	141	CG	GLU	10	-8.079	14.383	-7.953	1.00	0.00
ATOM	142	HG2	GLU	10	-8.686	14.089	-7.097	1.00	0.00
ATOM	143	HG3	GLU	10	-8.373	15.379	-8.282	1.00	0.00
ATOM	144	CD	GLU	10	-8.290	13.387	-9.093	1.00	0.00
ATOM	145	OE1	GLU	10	-7.640	13.535	-10.115	1.00	0.00
ATOM	146	OE2	GLU	10	-9.099	12.488	-8.926	1.00	0.00
ATOM	147	C	GLU	10	-6.796	12.002	-6.894	1.00	0.00
ATOM	148	O	GLU	10	-7.821	11.478	-6.454	1.00	0.00
ATOM	149	N	GLN	11	-6.009	11.423	-7.797	1.00	0.00
ATOM	150	H	GLN	11	-5.198	11.912	-8.147	1.00	0.00
ATOM	151	CA	GLN	11	-6.309	10.103	-8.341	1.00	0.00
ATOM	152	HA	GLN	11	-7.287	10.108	-8.822	1.00	0.00
ATOM	153	CB	GLN	11	-5.252	9.719	-9.383	1.00	0.00
ATOM	154	HB2	GLN	11	-5.110	10.546	-10.078	1.00	0.00
ATOM	155	HB3	GLN	11	-4.309	9.501	-8.880	1.00	0.00

ATOM	156	CG	GLN	11	-5.718	8.479	-10.154	1.00	0.00
ATOM	157	HG2	GLN	11	-5.794	7.628	-9.476	1.00	0.00
ATOM	158	HG3	GLN	11	-6.690	8.669	-10.608	1.00	0.00
ATOM	159	CD	GLN	11	-4.721	8.134	-11.260	1.00	0.00
ATOM	160	OE1	GLN	11	-3.787	8.894	-11.522	1.00	0.00
ATOM	161	NE2	GLN	11	-4.866	7.023	-11.929	1.00	0.00
ATOM	162	HE21	GLN	11	-4.211	6.788	-12.661	1.00	0.00
ATOM	163	HE22	GLN	11	-5.632	6.402	-11.711	1.00	0.00
ATOM	164	C	GLN	11	-6.368	9.043	-7.240	1.00	0.00
ATOM	165	O	GLN	11	-7.143	8.091	-7.332	1.00	0.00
ATOM	166	N	MET	12	-5.537	9.201	-6.208	1.00	0.00
ATOM	167	H	MET	12	-4.893	9.979	-6.182	1.00	0.00
ATOM	168	CA	MET	12	-5.501	8.233	-5.109	1.00	0.00
ATOM	169	HA	MET	12	-5.119	7.277	-5.469	1.00	0.00
ATOM	170	CB	MET	12	-4.587	8.733	-3.988	1.00	0.00
ATOM	171	HB2	MET	12	-4.874	9.746	-3.707	1.00	0.00
ATOM	172	HB3	MET	12	-4.678	8.077	-3.122	1.00	0.00
ATOM	173	CG	MET	12	-3.139	8.731	-4.478	1.00	0.00
ATOM	174	HG2	MET	12	-2.854	7.721	-4.774	1.00	0.00
ATOM	175	HG3	MET	12	-3.040	9.401	-5.332	1.00	0.00
ATOM	176	SD	MET	12	-2.046	9.292	-3.153	1.00	0.00
ATOM	177	CE	MET	12	-0.598	9.617	-4.187	1.00	0.00

ATOM	178	HE1	MET	12	-0.847	10.369	-4.935	1.00	0.00
ATOM	179	HE2	MET	12	0.220	9.981	-3.564	1.00	0.00
ATOM	180	HE3	MET	12	-0.292	8.696	-4.685	1.00	0.00
ATOM	181	C	MET	12	-6.898	7.970	-4.552	1.00	0.00
ATOM	182	O	MET	12	-7.239	6.826	-4.253	1.00	0.00
ATOM	183	N	GLN	13	-7.708	9.021	-4.421	1.00	0.00
ATOM	184	H	GLN	13	-7.400	9.953	-4.657	1.00	0.00
ATOM	185	CA	GLN	13	-9.065	8.848	-3.908	1.00	0.00
ATOM	186	HA	GLN	13	-9.025	8.442	-2.897	1.00	0.00
ATOM	187	CB	GLN	13	-9.807	10.188	-3.869	1.00	0.00
ATOM	188	HB2	GLN	13	-9.639	10.718	-4.806	1.00	0.00
ATOM	189	HB3	GLN	13	-10.874	10.004	-3.742	1.00	0.00
ATOM	190	CG	GLN	13	-9.294	11.038	-2.702	1.00	0.00
ATOM	191	HG2	GLN	13	-9.924	11.919	-2.586	1.00	0.00
ATOM	192	HG3	GLN	13	-9.312	10.455	-1.781	1.00	0.00
ATOM	193	CD	GLN	13	-7.862	11.494	-2.962	1.00	0.00
ATOM	194	OE1	GLN	13	-6.912	10.820	-2.564	1.00	0.00
ATOM	195	NE2	GLN	13	-7.650	12.608	-3.607	1.00	0.00
ATOM	196	HE21	GLN	13	-6.703	12.914	-3.782	1.00	0.00
ATOM	197	HE22	GLN	13	-8.433	13.158	-3.928	1.00	0.00
ATOM	198	C	GLN	13	-9.825	7.873	-4.794	1.00	0.00
ATOM	199	O	GLN	13	-10.495	6.967	-4.303	1.00	0.00



ATOM	200	N	ARG	14	-9.679	8.048	-6.105	1.00	0.00
ATOM	201	H	ARG	14	-9.122	8.816	-6.452	1.00	0.00
ATOM	202	CA	ARG	14	-10.310	7.168	-7.066	1.00	0.00
ATOM	203	HA	ARG	14	-11.393	7.204	-6.947	1.00	0.00
ATOM	204	CB	ARG	14	-9.959	7.601	-8.494	1.00	0.00
ATOM	205	HB2	ARG	14	-10.132	8.672	-8.597	1.00	0.00
ATOM	206	HB3	ARG	14	-8.908	7.383	-8.687	1.00	0.00
ATOM	207	CG	ARG	14	-10.831	6.843	-9.501	1.00	0.00
ATOM	208	HG2	ARG	14	-10.358	6.871	-10.483	1.00	0.00
ATOM	209	HG3	ARG	14	-10.938	5.807	-9.179	1.00	0.00
ATOM	210	CD	ARG	14	-12.212	7.497	-9.581	1.00	0.00
ATOM	211	HD2	ARG	14	-12.868	6.901	-10.216	1.00	0.00
ATOM	212	HD3	ARG	14	-12.644	7.573	-8.583	1.00	0.00
ATOM	213	NE	ARG	14	-12.103	8.839	-10.148	1.00	0.00
ATOM	214	HE	ARG	14	-11.308	9.082	-10.721	1.00	0.00
ATOM	215	CZ	ARG	14	-13.035	9.765	-9.928	1.00	0.00
ATOM	216	NH1	ARG	14	-14.080	9.487	-9.196	1.00	0.00
ATOM	217	HH11	ARG	14	-14.181	8.565	-8.795	1.00	0.00
ATOM	218	HH12	ARG	14	-14.782	10.194	-9.034	1.00	0.00
ATOM	219	NH2	ARG	14	-12.903	10.956	-10.446	1.00	0.00
ATOM	220	HH21	ARG	14	-12.094	11.170	-11.011	1.00	0.00
ATOM	221	HH22	ARG	14	-13.610	11.657	-10.278	1.00	0.00

ATOM	222	C	ARG	14	-9.815	5.762	-6.810	1.00	0.00
ATOM	223	O	ARG	14	-10.585	4.801	-6.817	1.00	0.00
ATOM	224	N	GLN	15	-8.509	5.664	-6.560	1.00	0.00
ATOM	225	H	GLN	15	-7.915	6.480	-6.585	1.00	0.00
ATOM	226	CA	GLN	15	-7.904	4.388	-6.273	1.00	0.00
ATOM	227	HA	GLN	15	-8.287	3.631	-6.957	1.00	0.00
ATOM	228	CB	GLN	15	-6.381	4.475	-6.442	1.00	0.00
ATOM	229	HB2	GLN	15	-6.071	5.519	-6.395	1.00	0.00
ATOM	230	HB3	GLN	15	-5.896	3.916	-5.641	1.00	0.00
ATOM	231	CG	GLN	15	-5.976	3.883	-7.796	1.00	0.00
ATOM	232	HG2	GLN	15	-4.941	3.542	-7.755	1.00	0.00
ATOM	233	HG3	GLN	15	-6.624	3.044	-8.050	1.00	0.00
ATOM	234	CD	GLN	15	-6.098	4.941	-8.888	1.00	0.00
ATOM	235	OE1	GLN	15	-5.091	5.467	-9.359	1.00	0.00
ATOM	236	NE2	GLN	15	-7.281	5.290	-9.317	1.00	0.00
ATOM	237	HE21	GLN	15	-7.366	5.990	-10.040	1.00	0.00
ATOM	238	HE22	GLN	15	-8.105	4.858	-8.924	1.00	0.00
ATOM	239	C	GLN	15	-8.256	3.982	-4.851	1.00	0.00
ATOM	240	O	GLN	15	-7.434	4.066	-3.937	1.00	0.00
ATOM	241	N	GLN	16	-9.487	3.536	-4.686	1.00	0.00
ATOM	242	H	GLN	16	-10.125	3.514	-5.468	1.00	0.00
ATOM	243	CA	GLN	16	-9.976	3.100	-3.384	1.00	0.00

ATOM	244	HA	GLN	16	-9.565	3.732	-2.596	1.00	0.00
ATOM	245	CB	GLN	16	-11.501	3.202	-3.346	1.00	0.00
ATOM	246	HB2	GLN	16	-11.933	2.582	-4.132	1.00	0.00
ATOM	247	HB3	GLN	16	-11.870	2.867	-2.376	1.00	0.00
ATOM	248	CG	GLN	16	-11.903	4.661	-3.568	1.00	0.00
ATOM	249	HG2	GLN	16	-11.473	5.279	-2.779	1.00	0.00
ATOM	250	HG3	GLN	16	-11.534	4.999	-4.536	1.00	0.00
ATOM	251	CD	GLN	16	-13.420	4.822	-3.541	1.00	0.00
ATOM	252	OE1	GLN	16	-14.156	3.834	-3.525	1.00	0.00
ATOM	253	NE2	GLN	16	-13.930	6.023	-3.538	1.00	0.00
ATOM	254	HE21	GLN	16	-14.932	6.142	-3.520	1.00	0.00
ATOM	255	HE22	GLN	16	-13.319	6.827	-3.553	1.00	0.00
ATOM	256	C	GLN	16	-9.526	1.668	-3.123	1.00	0.00
ATOM	257	O	GLN	16	-10.296	0.834	-2.638	1.00	0.00
ATOM	258	N	MET	17	-8.271	1.393	-3.471	1.00	0.00
ATOM	259	H	MET	17	-7.696	2.106	-3.897	1.00	0.00
ATOM	260	CA	MET	17	-7.705	0.060	-3.300	1.00	0.00
ATOM	261	HA	MET	17	-8.343	-0.681	-3.782	1.00	0.00
ATOM	262	CB	MET	17	-6.310	-0.006	-3.936	1.00	0.00
ATOM	263	HB2	MET	17	-6.154	-1.005	-4.344	1.00	0.00
ATOM	264	HB3	MET	17	-6.253	0.727	-4.740	1.00	0.00
ATOM	265	CG	MET	17	-5.229	0.293	-2.896	1.00	0.00

ATOM	266	HG2 MET	17	-5.559	1.094	-2.235	1.00	0.00
ATOM	267	HG3 MET	17	-5.022	-0.601	-2.307	1.00	0.00
ATOM	268	SD MET	17	-3.720	0.807	-3.744	1.00	0.00
ATOM	269	CE MET	17	-4.350	2.382	-4.372	1.00	0.00
ATOM	270	HE1 MET	17	-4.653	3.012	-3.536	1.00	0.00
ATOM	271	HE2 MET	17	-3.568	2.885	-4.941	1.00	0.00
ATOM	272	HE3 MET	17	-5.208	2.199	-5.018	1.00	0.00
ATOM	273	C MET	17	-7.623	-0.331	-1.833	1.00	0.00
ATOM	274	O MET	17	-7.622	-1.513	-1.505	1.00	0.00
ATOM	275	N LEU	18	-7.541	0.670	-0.965	1.00	0.00
ATOM	276	H LEU	18	-7.526	1.624	-1.296	1.00	0.00
ATOM	277	CA LEU	18	-7.430	0.435	0.472	1.00	0.00
ATOM	278	HA LEU	18	-6.532	-0.146	0.685	1.00	0.00
ATOM	279	CB LEU	18	-7.342	1.757	1.218	1.00	0.00
ATOM	280	HB2 LEU	18	-8.263	2.318	1.062	1.00	0.00
ATOM	281	HB3 LEU	18	-7.208	1.568	2.283	1.00	0.00
ATOM	282	CG LEU	18	-6.155	2.569	0.691	1.00	0.00
ATOM	283	HG LEU	18	-5.299	1.909	0.548	1.00	0.00
ATOM	284	CD1 LEU	18	-6.528	3.218	-0.646	1.00	0.00
ATOM	285	HD11 LEU	18	-7.383	3.878	-0.503	1.00	0.00
ATOM	286	HD12 LEU	18	-5.682	3.795	-1.019	1.00	0.00
ATOM	287	HD13 LEU	18	-6.784	2.442	-1.368	1.00	0.00

ATOM	288	CD2 LEU	18	-5.788	3.657	1.705	1.00	0.00
ATOM	289	HD21 LEU	18	-5.517	3.193	2.654	1.00	0.00
ATOM	290	HD22 LEU	18	-4.943	4.234	1.330	1.00	0.00
ATOM	291	HD23 LEU	18	-6.641	4.318	1.855	1.00	0.00
ATOM	292	C LEU	18	-8.616	-0.367	0.990	1.00	0.00
ATOM	293	O LEU	18	-8.509	-1.030	2.013	1.00	0.00
ATOM	294	N SER	19	-9.745	-0.317	0.287	1.00	0.00
ATOM	295	H SER	19	-9.823	0.252	-0.544	1.00	0.00
ATOM	296	CA SER	19	-10.912	-1.081	0.715	1.00	0.00
ATOM	297	HA SER	19	-11.151	-0.845	1.752	1.00	0.00
ATOM	298	CB SER	19	-12.120	-0.733	-0.158	1.00	0.00
ATOM	299	HB2 SER	19	-11.947	-1.079	-1.177	1.00	0.00
ATOM	300	HB3 SER	19	-13.012	-1.216	0.242	1.00	0.00
ATOM	301	OG SER	19	-12.305	0.677	-0.161	1.00	0.00
ATOM	302	HG SER	19	-13.062	0.899	-0.708	1.00	0.00
ATOM	303	C SER	19	-10.603	-2.573	0.601	1.00	0.00
ATOM	304	O SER	19	-10.717	-3.331	1.572	1.00	0.00
ATOM	305	N HIE	20	-10.170	-2.973	-0.593	1.00	0.00
ATOM	306	H HIE	20	-10.095	-2.309	-1.350	1.00	0.00
ATOM	307	CA HIE	20	-9.803	-4.361	-0.851	1.00	0.00
ATOM	308	HA HIE	20	-10.579	-5.027	-0.474	1.00	0.00
ATOM	309	CB HIE	20	-9.644	-4.598	-2.360	1.00	0.00

ATOM	310	HB2 HIE	20	-8.607	-4.562	-2.693	1.00	0.00
ATOM	311	HB3 HIE	20	-10.086	-5.550	-2.653	1.00	0.00
ATOM	312	CG HIE	20	-10.379	-3.528	-3.122	1.00	0.00
ATOM	313	ND1 HIE	20	-9.726	-2.639	-3.960	1.00	0.00
ATOM	314	CE1 HIE	20	-10.651	-1.804	-4.466	1.00	0.00
ATOM	315	HE1 HIE	20	-10.304	-1.033	-5.154	1.00	0.00
ATOM	316	NE2 HIE	20	-11.874	-2.087	-4.012	1.00	0.00
ATOM	317	HE2 HIE	20	-12.757	-1.639	-4.210	1.00	0.00
ATOM	318	CD2 HIE	20	-11.705	-3.177	-3.164	1.00	0.00
ATOM	319	HD2 HIE	20	-12.566	-3.612	-2.657	1.00	0.00
ATOM	320	C HIE	20	-8.492	-4.660	-0.143	1.00	0.00
ATOM	321	O HIE	20	-8.278	-5.755	0.376	1.00	0.00
ATOM	322	N CYX	21	-7.625	-3.654	-0.121	1.00	0.00
ATOM	323	H CYX	21	-7.848	-2.791	-0.595	1.00	0.00
ATOM	324	CA CYX	21	-6.335	-3.766	0.531	1.00	0.00
ATOM	325	HA CYX	21	-5.762	-4.593	0.112	1.00	0.00
ATOM	326	CB CYX	21	-5.554	-2.464	0.305	1.00	0.00
ATOM	327	HB2 CYX	21	-6.243	-1.673	0.012	1.00	0.00
ATOM	328	HB3 CYX	21	-5.046	-2.180	1.227	1.00	0.00
ATOM	329	SG CYX	21	-4.358	-2.724	-1.030	1.00	0.00
ATOM	330	C CYX	21	-6.537	-4.045	2.020	1.00	0.00
ATOM	331	O CYX	21	-5.924	-4.954	2.582	1.00	0.00

ATOM	332	N	ARG	22	-7.437	-3.288	2.641	1.00	0.00
ATOM	333	H	ARG	22	-7.913	-2.546	2.149	1.00	0.00
ATOM	334	CA	ARG	22	-7.753	-3.497	4.047	1.00	0.00
ATOM	335	HA	ARG	22	-6.861	-3.345	4.655	1.00	0.00
ATOM	336	CB	ARG	22	-8.829	-2.506	4.500	1.00	0.00
ATOM	337	HB2	ARG	22	-8.530	-1.497	4.217	1.00	0.00
ATOM	338	HB3	ARG	22	-9.773	-2.755	4.016	1.00	0.00
ATOM	339	CG	ARG	22	-9.001	-2.579	6.020	1.00	0.00
ATOM	340	HG2	ARG	22	-9.220	-3.606	6.313	1.00	0.00
ATOM	341	HG3	ARG	22	-8.082	-2.252	6.507	1.00	0.00
ATOM	342	CD	ARG	22	-10.157	-1.669	6.447	1.00	0.00
ATOM	343	HD2	ARG	22	-11.098	-2.057	6.057	1.00	0.00
ATOM	344	HD3	ARG	22	-10.208	-1.620	7.535	1.00	0.00
ATOM	345	NE	ARG	22	-9.955	-0.318	5.926	1.00	0.00
ATOM	346	HE	ARG	22	-9.333	0.319	6.404	1.00	0.00
ATOM	347	CZ	ARG	22	-10.577	0.106	4.823	1.00	0.00
ATOM	348	NH1	ARG	22	-11.406	-0.680	4.188	1.00	0.00
ATOM	349	HH11	ARG	22	-11.577	-1.614	4.534	1.00	0.00
ATOM	350	HH12	ARG	22	-11.871	-0.351	3.355	1.00	0.00
ATOM	351	NH2	ARG	22	-10.356	1.311	4.374	1.00	0.00
ATOM	352	HH21	ARG	22	-9.714	1.919	4.863	1.00	0.00
ATOM	353	HH22	ARG	22	-10.827	1.630	3.540	1.00	0.00

ATOM	354	C	ARG	22	-8.250	-4.923	4.218	1.00	0.00
ATOM	355	O	ARG	22	-7.820	-5.650	5.121	1.00	0.00
ATOM	356	N	MET	23	-9.141	-5.329	3.307	1.00	0.00
ATOM	357	H	MET	23	-9.477	-4.699	2.594	1.00	0.00
ATOM	358	CA	MET	23	-9.665	-6.684	3.332	1.00	0.00
ATOM	359	HA	MET	23	-10.215	-6.852	4.258	1.00	0.00
ATOM	360	CB	MET	23	-10.615	-6.909	2.149	1.00	0.00
ATOM	361	HB2	MET	23	-11.368	-6.121	2.136	1.00	0.00
ATOM	362	HB3	MET	23	-10.046	-6.883	1.220	1.00	0.00
ATOM	363	CG	MET	23	-11.303	-8.269	2.288	1.00	0.00
ATOM	364	HG2	MET	23	-10.552	-9.055	2.373	1.00	0.00
ATOM	365	HG3	MET	23	-11.934	-8.274	3.177	1.00	0.00
ATOM	366	SD	MET	23	-12.328	-8.579	0.828	1.00	0.00
ATOM	367	CE	MET	23	-10.981	-8.904	-0.338	1.00	0.00
ATOM	368	HE1	MET	23	-10.398	-9.758	0.008	1.00	0.00
ATOM	369	HE2	MET	23	-11.396	-9.123	-1.322	1.00	0.00
ATOM	370	HE3	MET	23	-10.336	-8.028	-0.403	1.00	0.00
ATOM	371	C	MET	23	-8.500	-7.664	3.263	1.00	0.00
ATOM	372	O	MET	23	-8.500	-8.692	3.937	1.00	0.00
ATOM	373	N	TYR	24	-7.498	-7.315	2.452	1.00	0.00
ATOM	374	H	TYR	24	-7.572	-6.482	1.886	1.00	0.00
ATOM	375	CA	TYR	24	-6.307	-8.145	2.309	1.00	0.00



ATOM	376	HA	TYR	24	-6.583	-9.142	1.964	1.00	0.00
ATOM	377	CB	TYR	24	-5.349	-7.514	1.277	1.00	0.00
ATOM	378	HB2	TYR	24	-5.341	-8.129	0.377	1.00	0.00
ATOM	379	HB3	TYR	24	-5.728	-6.521	1.036	1.00	0.00
ATOM	380	CG	TYR	24	-3.936	-7.397	1.821	1.00	0.00
ATOM	381	CD1	TYR	24	-3.239	-8.539	2.232	1.00	0.00
ATOM	382	HD1	TYR	24	-3.713	-9.519	2.171	1.00	0.00
ATOM	383	CE1	TYR	24	-1.932	-8.423	2.722	1.00	0.00
ATOM	384	HE1	TYR	24	-1.392	-9.312	3.050	1.00	0.00
ATOM	385	CZ	TYR	24	-1.321	-7.166	2.795	1.00	0.00
ATOM	386	OH	TYR	24	-0.031	-7.052	3.271	1.00	0.00
ATOM	387	HH	TYR	24	0.352	-7.896	3.524	1.00	0.00
ATOM	388	CE2	TYR	24	-2.015	-6.026	2.382	1.00	0.00
ATOM	389	HE2	TYR	24	-1.538	-5.048	2.439	1.00	0.00
ATOM	390	CD2	TYR	24	-3.322	-6.140	1.895	1.00	0.00
ATOM	391	HD2	TYR	24	-3.863	-5.251	1.573	1.00	0.00
ATOM	392	C	TYR	24	-5.631	-8.316	3.667	1.00	0.00
ATOM	393	O	TYR	24	-5.225	-9.416	4.031	1.00	0.00
ATOM	394	N	MET	25	-5.525	-7.224	4.423	1.00	0.00
ATOM	395	H	MET	25	-5.866	-6.330	4.102	1.00	0.00
ATOM	396	CA	MET	25	-4.911	-7.296	5.746	1.00	0.00
ATOM	397	HA	MET	25	-3.862	-7.580	5.656	1.00	0.00

ATOM	398	CB	MET	25	-4.991	-5.934	6.437	1.00	0.00
ATOM	399	HB2	MET	25	-6.037	-5.660	6.571	1.00	0.00
ATOM	400	HB3	MET	25	-4.505	-5.996	7.411	1.00	0.00
ATOM	401	CG	MET	25	-4.289	-4.871	5.582	1.00	0.00
ATOM	402	HG2	MET	25	-4.705	-4.879	4.575	1.00	0.00
ATOM	403	HG3	MET	25	-4.436	-3.888	6.029	1.00	0.00
ATOM	404	SD	MET	25	-2.517	-5.226	5.495	1.00	0.00
ATOM	405	CE	MET	25	-2.109	-4.778	7.200	1.00	0.00
ATOM	406	HE1	MET	25	-2.674	-5.408	7.887	1.00	0.00
ATOM	407	HE2	MET	25	-1.042	-4.924	7.369	1.00	0.00
ATOM	408	HE3	MET	25	-2.364	-3.733	7.373	1.00	0.00
ATOM	409	C	MET	25	-5.656	-8.330	6.585	1.00	0.00
ATOM	410	O	MET	25	-5.058	-9.248	7.166	1.00	0.00
ATOM	411	N	ARG	26	-6.981	-8.196	6.613	1.00	0.00
ATOM	412	H	ARG	26	-7.435	-7.428	6.141	1.00	0.00
ATOM	413	CA	ARG	26	-7.808	-9.141	7.346	1.00	0.00
ATOM	414	HA	ARG	26	-7.532	-9.137	8.401	1.00	0.00
ATOM	415	CB	ARG	26	-9.287	-8.753	7.224	1.00	0.00
ATOM	416	HB2	ARG	26	-9.418	-7.725	7.560	1.00	0.00
ATOM	417	HB3	ARG	26	-9.596	-8.837	6.182	1.00	0.00
ATOM	418	CG	ARG	26	-10.144	-9.685	8.088	1.00	0.00
ATOM	419	HG2	ARG	26	-11.196	-9.532	7.848	1.00	0.00

ATOM	420	HG3 ARG	26	-9.871	-10.720	7.880	1.00	0.00
ATOM	421	CD ARG	26	-9.910	-9.384	9.571	1.00	0.00
ATOM	422	HD2 ARG	26	-8.848	-9.463	9.804	1.00	0.00
ATOM	423	HD3 ARG	26	-10.259	-8.379	9.806	1.00	0.00
ATOM	424	NE ARG	26	-10.642	-10.340	10.399	1.00	0.00
ATOM	425	HE ARG	26	-11.551	-10.669	10.106	1.00	0.00
ATOM	426	CZ ARG	26	-10.139	-10.798	11.546	1.00	0.00
ATOM	427	NH1 ARG	26	-8.971	-10.392	11.965	1.00	0.00
ATOM	428	HH11 ARG	26	-8.444	-9.727	11.417	1.00	0.00
ATOM	429	HH12 ARG	26	-8.599	-10.746	12.835	1.00	0.00
ATOM	430	NH2 ARG	26	-10.820	-11.657	12.253	1.00	0.00
ATOM	431	HH21 ARG	26	-11.723	-11.971	11.928	1.00	0.00
ATOM	432	HH22 ARG	26	-10.440	-12.005	13.122	1.00	0.00
ATOM	433	C ARG	26	-7.574	-10.534	6.776	1.00	0.00
ATOM	434	O ARG	26	-7.465	-11.521	7.511	1.00	0.00
ATOM	435	N GLN	27	-7.457	-10.594	5.454	1.00	0.00
ATOM	436	H GLN	27	-7.581	-9.766	4.889	1.00	0.00
ATOM	437	CA GLN	27	-7.192	-11.847	4.784	1.00	0.00
ATOM	438	HA GLN	27	-7.986	-12.559	5.009	1.00	0.00
ATOM	439	CB GLN	27	-7.129	-11.647	3.262	1.00	0.00
ATOM	440	HB2 GLN	27	-8.107	-11.330	2.902	1.00	0.00
ATOM	441	HB3 GLN	27	-6.390	-10.879	3.032	1.00	0.00

ATOM	442	CG	GLN	27	-6.732	-12.961	2.574	1.00	0.00
ATOM	443	HG2	GLN	27	-6.848	-12.855	1.496	1.00	0.00
ATOM	444	HG3	GLN	27	-5.696	-13.211	2.805	1.00	0.00
ATOM	445	CD	GLN	27	-7.625	-14.101	3.050	1.00	0.00
ATOM	446	OE1	GLN	27	-8.467	-14.593	2.299	1.00	0.00
ATOM	447	NE2	GLN	27	-7.492	-14.542	4.270	1.00	0.00
ATOM	448	HE21	GLN	27	-8.077	-15.297	4.598	1.00	0.00
ATOM	449	HE22	GLN	27	-6.804	-14.127	4.882	1.00	0.00
ATOM	450	C	GLN	27	-5.885	-12.418	5.304	1.00	0.00
ATOM	451	O	GLN	27	-5.751	-13.616	5.502	1.00	0.00
ATOM	452	N	GLN	28	-4.920	-11.556	5.560	1.00	0.00
ATOM	453	H	GLN	28	-5.029	-10.564	5.408	1.00	0.00
ATOM	454	CA	GLN	28	-3.665	-12.032	6.073	1.00	0.00
ATOM	455	HA	GLN	28	-3.201	-12.717	5.363	1.00	0.00
ATOM	456	CB	GLN	28	-2.736	-10.863	6.294	1.00	0.00
ATOM	457	HB2	GLN	28	-2.683	-10.272	5.380	1.00	0.00
ATOM	458	HB3	GLN	28	-3.125	-10.246	7.104	1.00	0.00
ATOM	459	CG	GLN	28	-1.334	-11.362	6.661	1.00	0.00
ATOM	460	HG2	GLN	28	-1.094	-12.253	6.081	1.00	0.00
ATOM	461	HG3	GLN	28	-0.598	-10.585	6.454	1.00	0.00
ATOM	462	CD	GLN	28	-1.267	-11.714	8.145	1.00	0.00
ATOM	463	OE1	GLN	28	-0.829	-12.889	8.507	1.00	0.00

ATOM	464	NE2	GLN	28	-1.623	-10.898	8.996	1.00	0.00
ATOM	465	HE21	GLN	28	-1.574	-11.141	9.976	1.00	0.00
ATOM	466	HE22	GLN	28	-1.961	-9.991	8.711	1.00	0.00
ATOM	467	C	GLN	28	-3.907	-12.749	7.390	1.00	0.00
ATOM	468	O	GLN	28	-3.300	-13.785	7.666	1.00	0.00
ATOM	469	N	MET	29	-4.812	-12.193	8.198	1.00	0.00
ATOM	470	H	MET	29	-5.276	-11.332	7.949	1.00	0.00
ATOM	471	CA	MET	29	-5.133	-12.806	9.484	1.00	0.00
ATOM	472	HA	MET	29	-4.233	-12.870	10.097	1.00	0.00
ATOM	473	CB	MET	29	-6.177	-11.971	10.233	1.00	0.00
ATOM	474	HB2	MET	29	-6.988	-11.711	9.554	1.00	0.00
ATOM	475	HB3	MET	29	-6.573	-12.550	11.067	1.00	0.00
ATOM	476	CG	MET	29	-5.528	-10.692	10.764	1.00	0.00
ATOM	477	HG2	MET	29	-5.148	-10.096	9.935	1.00	0.00
ATOM	478	HG3	MET	29	-6.259	-10.110	11.325	1.00	0.00
ATOM	479	SD	MET	29	-4.155	-11.134	11.857	1.00	0.00
ATOM	480	CE	MET	29	-5.115	-12.085	13.064	1.00	0.00
ATOM	481	HE1	MET	29	-5.597	-12.925	12.565	1.00	0.00
ATOM	482	HE2	MET	29	-4.451	-12.459	13.844	1.00	0.00
ATOM	483	HE3	MET	29	-5.874	-11.444	13.512	1.00	0.00
ATOM	484	C	MET	29	-5.664	-14.221	9.279	1.00	0.00
ATOM	485	O	MET	29	-5.119	-15.177	9.828	1.00	0.00

ATOM	486	N	GLU	30	-6.717	-14.358	8.473	1.00	0.00
ATOM	487	H	GLU	30	-7.163	-13.557	8.051	1.00	0.00
ATOM	488	CA	GLU	30	-7.275	-15.685	8.205	1.00	0.00
ATOM	489	HA	GLU	30	-7.482	-16.195	9.146	1.00	0.00
ATOM	490	CB	GLU	30	-8.581	-15.570	7.412	1.00	0.00
ATOM	491	HB2	GLU	30	-8.415	-14.952	6.530	1.00	0.00
ATOM	492	HB3	GLU	30	-8.904	-16.564	7.103	1.00	0.00
ATOM	493	CG	GLU	30	-9.663	-14.931	8.287	1.00	0.00
ATOM	494	HG2	GLU	30	-10.644	-15.282	7.968	1.00	0.00
ATOM	495	HG3	GLU	30	-9.493	-15.222	9.324	1.00	0.00
ATOM	496	CD	GLU	30	-9.604	-13.412	8.170	1.00	0.00
ATOM	497	OE1	GLU	30	-9.745	-12.917	7.063	1.00	0.00
ATOM	498	OE2	GLU	30	-9.427	-12.765	9.190	1.00	0.00
ATOM	499	C	GLU	30	-6.276	-16.537	7.423	1.00	0.00
ATOM	500	O	GLU	30	-6.093	-17.722	7.700	1.00	0.00
ATOM	501	N	GLU	31	-5.642	-15.907	6.436	1.00	0.00
ATOM	502	H	GLU	31	-5.863	-14.941	6.245	1.00	0.00
ATOM	503	CA	GLU	31	-4.660	-16.575	5.584	1.00	0.00
ATOM	504	HA	GLU	31	-5.070	-17.507	5.194	1.00	0.00
ATOM	505	CB	GLU	31	-4.300	-15.666	4.403	1.00	0.00
ATOM	506	HB2	GLU	31	-5.208	-15.205	4.016	1.00	0.00
ATOM	507	HB3	GLU	31	-3.616	-14.889	4.744	1.00	0.00

ATOM	508	CG	GLU	31	-3.629	-16.486	3.293	1.00	0.00
ATOM	509	HG2	GLU	31	-2.771	-17.012	3.711	1.00	0.00
ATOM	510	HG3	GLU	31	-4.346	-17.211	2.907	1.00	0.00
ATOM	511	CD	GLU	31	-3.163	-15.574	2.155	1.00	0.00
ATOM	512	OE1	GLU	31	-3.304	-14.366	2.281	1.00	0.00
ATOM	513	OE2	GLU	31	-2.669	-16.100	1.170	1.00	0.00
ATOM	514	C	GLU	31	-3.395	-16.939	6.369	1.00	0.00
ATOM	515	O	GLU	31	-2.489	-17.565	5.827	1.00	0.00
ATOM	516	N	SER	32	-3.334	-16.533	7.639	1.00	0.00
ATOM	517	H	SER	32	-4.094	-16.000	8.037	1.00	0.00
ATOM	518	CA	SER	32	-2.166	-16.812	8.481	1.00	0.00
ATOM	519	HA	SER	32	-1.339	-16.160	8.200	1.00	0.00
ATOM	520	CB	SER	32	-2.507	-16.563	9.950	1.00	0.00
ATOM	521	HB2	SER	32	-1.623	-16.738	10.564	1.00	0.00
ATOM	522	HB3	SER	32	-2.839	-15.533	10.078	1.00	0.00
ATOM	523	OG	SER	32	-3.545	-17.449	10.350	1.00	0.00
ATOM	524	HG	SER	32	-3.760	-17.294	11.273	1.00	0.00
ATOM	525	C	SER	32	-1.697	-18.253	8.300	1.00	0.00
ATOM	526	O	SER	32	-0.539	-18.575	8.565	1.00	0.00
ATOM	527	N	THR	33	-2.605	-19.111	7.848	1.00	0.00
ATOM	528	H	THR	33	-3.554	-18.807	7.686	1.00	0.00
ATOM	529	CA	THR	33	-2.277	-20.509	7.605	1.00	0.00

ATOM	530	HA	THR	33	-1.645	-20.894	8.406	1.00	0.00
ATOM	531	CB	THR	33	-3.564	-21.340	7.555	1.00	0.00
ATOM	532	HB	THR	33	-3.320	-22.371	7.296	1.00	0.00
ATOM	533	CG2	THR	33	-4.252	-21.307	8.922	1.00	0.00
ATOM	534	HG21	THR	33	-4.497	-20.277	9.182	1.00	0.00
ATOM	535	HG22	THR	33	-5.166	-21.899	8.884	1.00	0.00
ATOM	536	HG23	THR	33	-3.583	-21.722	9.676	1.00	0.00
ATOM	537	OG1	THR	33	-4.438	-20.800	6.572	1.00	0.00
ATOM	538	HG1	THR	33	-5.244	-21.320	6.541	1.00	0.00
ATOM	539	C	THR	33	-1.500	-20.683	6.288	1.00	0.00
ATOM	540	O	THR	33	-0.393	-21.221	6.273	1.00	0.00
ATOM	541	N	TYR	34	-2.129	-20.262	5.181	1.00	0.00
ATOM	542	H	TYR	34	-3.051	-19.859	5.265	1.00	0.00
ATOM	543	CA	TYR	34	-1.549	-20.405	3.834	1.00	0.00
ATOM	544	HA	TYR	34	-0.762	-21.160	3.837	1.00	0.00
ATOM	545	CB	TYR	34	-2.644	-20.843	2.857	1.00	0.00
ATOM	546	HB2	TYR	34	-3.413	-20.073	2.801	1.00	0.00
ATOM	547	HB3	TYR	34	-2.207	-20.992	1.870	1.00	0.00
ATOM	548	CG	TYR	34	-3.261	-22.137	3.335	1.00	0.00
ATOM	549	CD1	TYR	34	-2.583	-23.348	3.148	1.00	0.00
ATOM	550	HD1	TYR	34	-1.610	-23.358	2.656	1.00	0.00
ATOM	551	CE1	TYR	34	-3.154	-24.546	3.593	1.00	0.00



ATOM	552	HE1	TYR	34	-2.626	-25.489	3.447	1.00	0.00
ATOM	553	CZ	TYR	34	-4.403	-24.534	4.226	1.00	0.00
ATOM	554	OH	TYR	34	-4.965	-25.715	4.664	1.00	0.00
ATOM	555	HH	TYR	34	-4.415	-26.482	4.484	1.00	0.00
ATOM	556	CE2	TYR	34	-5.080	-23.323	4.413	1.00	0.00
ATOM	557	HE2	TYR	34	-6.052	-23.314	4.906	1.00	0.00
ATOM	558	CD2	TYR	34	-4.510	-22.126	3.969	1.00	0.00
ATOM	559	HD2	TYR	34	-5.037	-21.184	4.116	1.00	0.00
ATOM	560	C	TYR	34	-0.884	-19.127	3.293	1.00	0.00
ATOM	561	O	TYR	34	-0.500	-19.095	2.123	1.00	0.00
ATOM	562	N	GLN	35	-0.794	-18.073	4.107	1.00	0.00
ATOM	563	H	GLN	35	-1.149	-18.129	5.051	1.00	0.00
ATOM	564	CA	GLN	35	-0.214	-16.793	3.652	1.00	0.00
ATOM	565	HA	GLN	35	-0.984	-16.208	3.151	1.00	0.00
ATOM	566	CB	GLN	35	0.338	-15.974	4.825	1.00	0.00
ATOM	567	HB2	GLN	35	0.543	-14.960	4.483	1.00	0.00
ATOM	568	HB3	GLN	35	-0.408	-15.946	5.620	1.00	0.00
ATOM	569	CG	GLN	35	1.633	-16.604	5.361	1.00	0.00
ATOM	570	HG2	GLN	35	2.353	-16.732	4.552	1.00	0.00
ATOM	571	HG3	GLN	35	2.063	-15.963	6.131	1.00	0.00
ATOM	572	CD	GLN	35	1.341	-17.967	5.971	1.00	0.00
ATOM	573	OE1	GLN	35	0.138	-18.225	6.388	1.00	0.00

ATOM	574	NE2	GLN	35	2.227	-18.815	6.064	1.00	0.00
ATOM	575	HE21	GLN	35	2.019	-19.716	6.471	1.00	0.00
ATOM	576	HE22	GLN	35	3.158	-18.607	5.733	1.00	0.00
ATOM	577	C	GLN	35	0.910	-16.976	2.643	1.00	0.00
ATOM	578	O	GLN	35	1.102	-16.120	1.778	1.00	0.00
ATOM	579	N	THR	36	1.658	-18.070	2.745	1.00	0.00
ATOM	580	H	THR	36	1.503	-18.763	3.463	1.00	0.00
ATOM	581	CA	THR	36	2.748	-18.280	1.810	1.00	0.00
ATOM	582	HA	THR	36	3.471	-17.468	1.889	1.00	0.00
ATOM	583	CB	THR	36	3.460	-19.601	2.120	1.00	0.00
ATOM	584	HB	THR	36	2.784	-20.432	1.918	1.00	0.00
ATOM	585	CG2	THR	36	4.708	-19.734	1.243	1.00	0.00
ATOM	586	HG21	THR	36	5.385	-18.904	1.445	1.00	0.00
ATOM	587	HG22	THR	36	5.212	-20.675	1.467	1.00	0.00
ATOM	588	HG23	THR	36	4.418	-19.719	0.193	1.00	0.00
ATOM	589	OG1	THR	36	3.838	-19.621	3.489	1.00	0.00
ATOM	590	HG1	THR	36	4.285	-20.448	3.686	1.00	0.00
ATOM	591	C	THR	36	2.186	-18.309	0.395	1.00	0.00
ATOM	592	O	THR	36	1.526	-19.266	-0.009	1.00	0.00
ATOM	593	N	MET	37	2.446	-17.233	-0.339	1.00	0.00
ATOM	594	H	MET	37	2.975	-16.468	0.055	1.00	0.00
ATOM	595	CA	MET	37	1.959	-17.104	-1.709	1.00	0.00

ATOM	596	HA	MET	37	0.873	-17.188	-1.731	1.00	0.00
ATOM	597	CB	MET	37	2.356	-15.736	-2.271	1.00	0.00
ATOM	598	HB2	MET	37	3.433	-15.600	-2.166	1.00	0.00
ATOM	599	HB3	MET	37	2.085	-15.685	-3.325	1.00	0.00
ATOM	600	CG	MET	37	1.624	-14.631	-1.502	1.00	0.00
ATOM	601	HG2	MET	37	1.637	-14.855	-0.435	1.00	0.00
ATOM	602	HG3	MET	37	2.115	-13.674	-1.677	1.00	0.00
ATOM	603	SD	MET	37	-0.093	-14.533	-2.070	1.00	0.00
ATOM	604	CE	MET	37	0.187	-13.404	-3.456	1.00	0.00
ATOM	605	HE1	MET	37	0.883	-13.859	-4.161	1.00	0.00
ATOM	606	HE2	MET	37	-0.759	-13.203	-3.958	1.00	0.00
ATOM	607	HE3	MET	37	0.606	-12.469	-3.084	1.00	0.00
ATOM	608	C	MET	37	2.523	-18.209	-2.602	1.00	0.00
ATOM	609	O	MET	37	3.729	-18.265	-2.843	1.00	0.00
ATOM	610	N	PRO	38	1.675	-19.076	-3.104	1.00	0.00
ATOM	611	CD	PRO	38	0.218	-19.094	-2.876	1.00	0.00
ATOM	612	HD2	PRO	38	-0.219	-18.192	-3.302	1.00	0.00
ATOM	613	HD3	PRO	38	0.027	-19.119	-1.803	1.00	0.00
ATOM	614	CG	PRO	38	-0.256	-20.370	-3.584	1.00	0.00
ATOM	615	HG2	PRO	38	-0.764	-20.095	-4.508	1.00	0.00
ATOM	616	HG3	PRO	38	-0.950	-20.901	-2.932	1.00	0.00
ATOM	617	CB	PRO	38	0.959	-21.196	-3.854	1.00	0.00

ATOM	618	HB2 PRO	38	0.808	-21.723	-4.796	1.00	0.00
ATOM	619	HB3 PRO	38	1.198	-21.916	-3.071	1.00	0.00
ATOM	620	CA PRO	38	2.095	-20.188	-3.999	1.00	0.00
ATOM	621	HA PRO	38	3.055	-20.569	-3.650	1.00	0.00
ATOM	622	C PRO	38	2.229	-19.722	-5.446	1.00	0.00
ATOM	623	O PRO	38	1.463	-18.873	-5.904	1.00	0.00
ATOM	624	N ARG	39	3.199	-20.282	-6.162	1.00	0.00
ATOM	625	H ARG	39	3.795	-20.993	-5.762	1.00	0.00
ATOM	626	CA ARG	39	3.408	-19.908	-7.558	1.00	0.00
ATOM	627	HA ARG	39	3.627	-18.843	-7.625	1.00	0.00
ATOM	628	CB ARG	39	4.578	-20.684	-8.151	1.00	0.00
ATOM	629	HB2 ARG	39	4.312	-21.739	-8.219	1.00	0.00
ATOM	630	HB3 ARG	39	4.797	-20.300	-9.147	1.00	0.00
ATOM	631	CG ARG	39	5.815	-20.527	-7.261	1.00	0.00
ATOM	632	HG2 ARG	39	6.036	-19.468	-7.130	1.00	0.00
ATOM	633	HG3 ARG	39	5.623	-20.981	-6.288	1.00	0.00
ATOM	634	CD ARG	39	7.011	-21.220	-7.919	1.00	0.00
ATOM	635	HD2 ARG	39	6.744	-22.242	-8.189	1.00	0.00
ATOM	636	HD3 ARG	39	7.309	-20.674	-8.814	1.00	0.00
ATOM	637	NE ARG	39	8.143	-21.261	-6.998	1.00	0.00
ATOM	638	HE ARG	39	8.907	-20.609	-7.105	1.00	0.00
ATOM	639	CZ ARG	39	8.199	-22.148	-6.004	1.00	0.00

ATOM	640	NH1	ARG	39	7.229	-23.005	-5.833	1.00	0.00
ATOM	641	HH11	ARG	39	6.435	-22.995	-6.456	1.00	0.00
ATOM	642	HH12	ARG	39	7.278	-23.674	-5.078	1.00	0.00
ATOM	643	NH2	ARG	39	9.227	-22.158	-5.200	1.00	0.00
ATOM	644	HH21	ARG	39	9.976	-21.494	-5.334	1.00	0.00
ATOM	645	HH22	ARG	39	9.269	-22.830	-4.447	1.00	0.00
ATOM	646	C	ARG	39	2.176	-20.249	-8.372	1.00	0.00
ATOM	647	O	ARG	39	1.774	-19.498	-9.261	1.00	0.00
ATOM	648	N	ARG	40	1.586	-21.403	-8.065	1.00	0.00
ATOM	649	H	ARG	40	1.964	-22.003	-7.345	1.00	0.00
ATOM	650	CA	ARG	40	0.409	-21.849	-8.782	1.00	0.00
ATOM	651	HA	ARG	40	0.578	-21.773	-9.856	1.00	0.00
ATOM	652	CB	ARG	40	0.098	-23.307	-8.439	1.00	0.00
ATOM	653	HB2	ARG	40	0.080	-23.430	-7.356	1.00	0.00
ATOM	654	HB3	ARG	40	-0.873	-23.579	-8.851	1.00	0.00
ATOM	655	CG	ARG	40	1.177	-24.213	-9.037	1.00	0.00
ATOM	656	HG2	ARG	40	2.159	-23.786	-8.834	1.00	0.00
ATOM	657	HG3	ARG	40	1.111	-25.201	-8.581	1.00	0.00
ATOM	658	CD	ARG	40	0.976	-24.335	-10.552	1.00	0.00
ATOM	659	HD2	ARG	40	0.990	-23.345	-11.007	1.00	0.00
ATOM	660	HD3	ARG	40	1.772	-24.943	-10.982	1.00	0.00
ATOM	661	NE	ARG	40	-0.307	-24.968	-10.846	1.00	0.00

ATOM	662	HE	ARG	40	-1.100	-24.402	-11.109	1.00	0.00
ATOM	663	CZ	ARG	40	-0.464	-26.289	-10.776	1.00	0.00
ATOM	664	NH1	ARG	40	0.538	-27.054	-10.434	1.00	0.00
ATOM	665	HH11	ARG	40	1.435	-26.642	-10.222	1.00	0.00
ATOM	666	HH12	ARG	40	0.411	-28.055	-10.383	1.00	0.00
ATOM	667	NH2	ARG	40	-1.624	-26.821	-11.050	1.00	0.00
ATOM	668	HH21	ARG	40	-2.398	-26.229	-11.314	1.00	0.00
ATOM	669	HH22	ARG	40	-1.742	-27.823	-10.996	1.00	0.00
ATOM	670	C	ARG	40	-0.776	-20.971	-8.441	1.00	0.00
ATOM	671	O	ARG	40	-1.422	-21.134	-7.404	1.00	0.00
ATOM	672	N	GLY	41	-1.045	-20.047	-9.342	1.00	0.00
ATOM	673	H	GLY	41	-0.470	-19.971	-10.169	1.00	0.00
ATOM	674	CA	GLY	41	-2.161	-19.116	-9.185	1.00	0.00
ATOM	675	HA2	GLY	41	-2.098	-18.355	-9.962	1.00	0.00
ATOM	676	HA3	GLY	41	-3.096	-19.665	-9.290	1.00	0.00
ATOM	677	C	GLY	41	-2.135	-18.435	-7.819	1.00	0.00
ATOM	678	O	GLY	41	-2.791	-18.887	-6.879	1.00	0.00
ATOM	679	N	MET	42	-1.379	-17.342	-7.719	1.00	0.00
ATOM	680	H	MET	42	-0.846	-17.017	-8.513	1.00	0.00
ATOM	681	CA	MET	42	-1.276	-16.598	-6.463	1.00	0.00
ATOM	682	HA	MET	42	-0.830	-17.226	-5.691	1.00	0.00
ATOM	683	CB	MET	42	-0.391	-15.363	-6.661	1.00	0.00

ATOM	684	HB2 MET	42	-0.765	-14.780	-7.502	1.00	0.00
ATOM	685	HB3 MET	42	-0.413	-14.753	-5.758	1.00	0.00
ATOM	686	CG MET	42	1.048	-15.801	-6.945	1.00	0.00
ATOM	687	HG2 MET	42	1.406	-16.440	-6.137	1.00	0.00
ATOM	688	HG3 MET	42	1.088	-16.350	-7.886	1.00	0.00
ATOM	689	SD MET	42	2.110	-14.341	-7.063	1.00	0.00
ATOM	690	CE MET	42	3.637	-15.204	-7.510	1.00	0.00
ATOM	691	HE1 MET	42	3.489	-15.746	-8.444	1.00	0.00
ATOM	692	HE2 MET	42	4.442	-14.479	-7.635	1.00	0.00
ATOM	693	HE3 MET	42	3.902	-15.908	-6.720	1.00	0.00
ATOM	694	C MET	42	-2.659	-16.164	-5.978	1.00	0.00
ATOM	695	O MET	42	-3.652	-16.310	-6.692	1.00	0.00
ATOM	696	N GLU	43	-2.717	-15.632	-4.758	1.00	0.00
ATOM	697	H GLU	43	-1.883	-15.545	-4.194	1.00	0.00
ATOM	698	CA GLU	43	-3.987	-15.187	-4.190	1.00	0.00
ATOM	699	HA GLU	43	-4.735	-15.974	-4.286	1.00	0.00
ATOM	700	CB GLU	43	-3.810	-14.859	-2.703	1.00	0.00
ATOM	701	HB2 GLU	43	-3.213	-15.638	-2.228	1.00	0.00
ATOM	702	HB3 GLU	43	-3.302	-13.900	-2.600	1.00	0.00
ATOM	703	CG GLU	43	-5.183	-14.785	-2.027	1.00	0.00
ATOM	704	HG2 GLU	43	-5.765	-13.979	-2.472	1.00	0.00
ATOM	705	HG3 GLU	43	-5.700	-15.733	-2.179	1.00	0.00

ATOM	706	CD	GLU	43	-5.021	-14.529	-0.530	1.00	0.00
ATOM	707	OE1	GLU	43	-4.498	-13.485	-0.180	1.00	0.00
ATOM	708	OE2	GLU	43	-5.431	-15.378	0.245	1.00	0.00
ATOM	709	C	GLU	43	-4.503	-13.953	-4.933	1.00	0.00
ATOM	710	O	GLU	43	-3.779	-12.970	-5.093	1.00	0.00
ATOM	711	N	PRO	44	-5.733	-13.994	-5.392	1.00	0.00
ATOM	712	CD	PRO	44	-6.665	-15.124	-5.242	1.00	0.00
ATOM	713	HD2	PRO	44	-6.657	-15.460	-4.205	1.00	0.00
ATOM	714	HD3	PRO	44	-6.345	-15.941	-5.890	1.00	0.00
ATOM	715	CG	PRO	44	-8.013	-14.543	-5.660	1.00	0.00
ATOM	716	HG2	PRO	44	-8.550	-14.211	-4.772	1.00	0.00
ATOM	717	HG3	PRO	44	-8.593	-15.314	-6.168	1.00	0.00
ATOM	718	CB	PRO	44	-7.721	-13.404	-6.578	1.00	0.00
ATOM	719	HB2	PRO	44	-8.483	-12.635	-6.451	1.00	0.00
ATOM	720	HB3	PRO	44	-7.683	-13.710	-7.623	1.00	0.00
ATOM	721	CA	PRO	44	-6.355	-12.860	-6.143	1.00	0.00
ATOM	722	HA	PRO	44	-5.718	-12.635	-6.998	1.00	0.00
ATOM	723	C	PRO	44	-6.517	-11.607	-5.285	1.00	0.00
ATOM	724	O	PRO	44	-6.569	-10.493	-5.810	1.00	0.00
ATOM	725	N	HIE	45	-6.601	-11.794	-3.970	1.00	0.00
ATOM	726	H	HIE	45	-6.573	-12.725	-3.580	1.00	0.00
ATOM	727	CA	HIE	45	-6.763	-10.665	-3.057	1.00	0.00



ATOM	728	HA	HIE	45	-7.736	-10.200	-3.210	1.00	0.00
ATOM	729	CB	HIE	45	-6.672	-11.143	-1.605	1.00	0.00
ATOM	730	HB2	HIE	45	-5.754	-11.697	-1.408	1.00	0.00
ATOM	731	HB3	HIE	45	-6.757	-10.319	-0.897	1.00	0.00
ATOM	732	CG	HIE	45	-7.812	-12.081	-1.313	1.00	0.00
ATOM	733	ND1	HIE	45	-7.606	-13.391	-0.911	1.00	0.00
ATOM	734	CE1	HIE	45	-8.814	-13.957	-0.738	1.00	0.00
ATOM	735	HE1	HIE	45	-8.836	-14.999	-0.419	1.00	0.00
ATOM	736	NE2	HIE	45	-9.804	-13.100	-1.000	1.00	0.00
ATOM	737	HE2	HIE	45	-10.804	-13.236	-0.958	1.00	0.00
ATOM	738	CD2	HIE	45	-9.174	-11.915	-1.363	1.00	0.00
ATOM	739	HD2	HIE	45	-9.768	-11.042	-1.630	1.00	0.00
ATOM	740	C	HIE	45	-5.691	-9.609	-3.316	1.00	0.00
ATOM	741	O	HIE	45	-5.989	-8.415	-3.387	1.00	0.00
ATOM	742	N	MET	46	-4.447	-10.058	-3.467	1.00	0.00
ATOM	743	H	MET	46	-4.244	-11.045	-3.399	1.00	0.00
ATOM	744	CA	MET	46	-3.342	-9.141	-3.729	1.00	0.00
ATOM	745	HA	MET	46	-3.313	-8.364	-2.965	1.00	0.00
ATOM	746	CB	MET	46	-2.011	-9.901	-3.704	1.00	0.00
ATOM	747	HB2	MET	46	-1.984	-10.601	-4.539	1.00	0.00
ATOM	748	HB3	MET	46	-1.191	-9.189	-3.800	1.00	0.00
ATOM	749	CG	MET	46	-1.865	-10.671	-2.389	1.00	0.00

ATOM	750	HG2 MET	46	-2.583	-11.491	-2.364	1.00	0.00
ATOM	751	HG3 MET	46	-0.854	-11.072	-2.311	1.00	0.00
ATOM	752	SD MET	46	-2.175	-9.566	-0.990	1.00	0.00
ATOM	753	CE MET	46	-2.781	-10.830	0.156	1.00	0.00
ATOM	754	HE1 MET	46	-2.004	-11.579	0.316	1.00	0.00
ATOM	755	HE2 MET	46	-3.038	-10.365	1.108	1.00	0.00
ATOM	756	HE3 MET	46	-3.665	-11.309	-0.265	1.00	0.00
ATOM	757	C MET	46	-3.518	-8.488	-5.099	1.00	0.00
ATOM	758	O MET	46	-3.303	-7.287	-5.263	1.00	0.00
ATOM	759	N SER	47	-3.911	-9.304	-6.075	1.00	0.00
ATOM	760	H SER	47	-4.050	-10.286	-5.880	1.00	0.00
ATOM	761	CA SER	47	-4.119	-8.833	-7.442	1.00	0.00
ATOM	762	HA SER	47	-3.191	-8.425	-7.843	1.00	0.00
ATOM	763	CB SER	47	-4.565	-9.997	-8.329	1.00	0.00
ATOM	764	HB2 SER	47	-5.557	-10.329	-8.024	1.00	0.00
ATOM	765	HB3 SER	47	-4.594	-9.673	-9.369	1.00	0.00
ATOM	766	OG SER	47	-3.644	-11.071	-8.194	1.00	0.00
ATOM	767	HG SER	47	-3.922	-11.803	-8.750	1.00	0.00
ATOM	768	C SER	47	-5.163	-7.720	-7.501	1.00	0.00
ATOM	769	O SER	47	-5.080	-6.827	-8.344	1.00	0.00
ATOM	770	N GLU	48	-6.154	-7.789	-6.616	1.00	0.00
ATOM	771	H GLU	48	-6.202	-8.551	-5.954	1.00	0.00

ATOM	772	CA	GLU	48	-7.216	-6.786	-6.597	1.00	0.00
ATOM	773	HA	GLU	48	-7.780	-6.821	-7.528	1.00	0.00
ATOM	774	CB	GLU	48	-8.176	-7.062	-5.431	1.00	0.00
ATOM	775	HB2	GLU	48	-8.000	-8.069	-5.051	1.00	0.00
ATOM	776	HB3	GLU	48	-7.995	-6.338	-4.637	1.00	0.00
ATOM	777	CG	GLU	48	-9.629	-6.943	-5.910	1.00	0.00
ATOM	778	HG2	GLU	48	-9.677	-7.199	-6.968	1.00	0.00
ATOM	779	HG3	GLU	48	-10.243	-7.640	-5.340	1.00	0.00
ATOM	780	CD	GLU	48	-10.150	-5.521	-5.706	1.00	0.00
ATOM	781	OE1	GLU	48	-9.402	-4.589	-5.952	1.00	0.00
ATOM	782	OE2	GLU	48	-11.296	-5.384	-5.309	1.00	0.00
ATOM	783	C	GLU	48	-6.628	-5.382	-6.463	1.00	0.00
ATOM	784	O	GLU	48	-6.917	-4.501	-7.274	1.00	0.00
ATOM	785	N	CYX	49	-5.795	-5.184	-5.445	1.00	0.00
ATOM	786	H	CYX	49	-5.605	-5.924	-4.784	1.00	0.00
ATOM	787	CA	CYX	49	-5.166	-3.884	-5.228	1.00	0.00
ATOM	788	HA	CYX	49	-5.920	-3.098	-5.248	1.00	0.00
ATOM	789	CB	CYX	49	-4.463	-3.856	-3.860	1.00	0.00
ATOM	790	HB2	CYX	49	-4.257	-4.876	-3.535	1.00	0.00
ATOM	791	HB3	CYX	49	-3.525	-3.307	-3.944	1.00	0.00
ATOM	792	SG	CYX	49	-5.531	-3.029	-2.653	1.00	0.00
ATOM	793	C	CYX	49	-4.160	-3.576	-6.339	1.00	0.00

ATOM	794	O	CYX	49	-3.959	-2.416	-6.692	1.00	0.00
ATOM	795	N	CYX	50	-3.531	-4.624	-6.877	1.00	0.00
ATOM	796	H	CYX	50	-3.727	-5.556	-6.538	1.00	0.00
ATOM	797	CA	CYX	50	-2.532	-4.466	-7.940	1.00	0.00
ATOM	798	HA	CYX	50	-1.644	-3.970	-7.547	1.00	0.00
ATOM	799	CB	CYX	50	-2.125	-5.834	-8.486	1.00	0.00
ATOM	800	HB2	CYX	50	-1.853	-6.490	-7.659	1.00	0.00
ATOM	801	HB3	CYX	50	-2.959	-6.270	-9.035	1.00	0.00
ATOM	802	SG	CYX	50	-0.733	-5.639	-9.631	1.00	0.00
ATOM	803	C	CYX	50	-3.045	-3.613	-9.097	1.00	0.00
ATOM	804	O	CYX	50	-2.323	-2.760	-9.614	1.00	0.00
ATOM	805	N	GLU	51	-4.281	-3.862	-9.517	1.00	0.00
ATOM	806	H	GLU	51	-4.834	-4.591	-9.089	1.00	0.00
ATOM	807	CA	GLU	51	-4.858	-3.121	-10.634	1.00	0.00
ATOM	808	HA	GLU	51	-4.259	-3.272	-11.532	1.00	0.00
ATOM	809	CB	GLU	51	-6.284	-3.613	-10.907	1.00	0.00
ATOM	810	HB2	GLU	51	-6.277	-4.697	-11.025	1.00	0.00
ATOM	811	HB3	GLU	51	-6.926	-3.344	-10.068	1.00	0.00
ATOM	812	CG	GLU	51	-6.818	-2.962	-12.190	1.00	0.00
ATOM	813	HG2	GLU	51	-7.865	-3.236	-12.320	1.00	0.00
ATOM	814	HG3	GLU	51	-6.735	-1.880	-12.094	1.00	0.00
ATOM	815	CD	GLU	51	-6.013	-3.430	-13.406	1.00	0.00

ATOM	816	OE1	GLU	51	-5.522	-4.548	-13.384	1.00	0.00
ATOM	817	OE2	GLU	51	-5.903	-2.661	-14.346	1.00	0.00
ATOM	818	C	GLU	51	-4.875	-1.617	-10.361	1.00	0.00
ATOM	819	O	GLU	51	-4.657	-0.816	-11.268	1.00	0.00
ATOM	820	N	GLN	52	-5.146	-1.240	-9.114	1.00	0.00
ATOM	821	H	GLN	52	-5.351	-1.928	-8.403	1.00	0.00
ATOM	822	CA	GLN	52	-5.201	0.174	-8.746	1.00	0.00
ATOM	823	HA	GLN	52	-5.958	0.689	-9.336	1.00	0.00
ATOM	824	CB	GLN	52	-5.564	0.301	-7.269	1.00	0.00
ATOM	825	HB2	GLN	52	-4.806	-0.194	-6.661	1.00	0.00
ATOM	826	HB3	GLN	52	-5.619	1.354	-6.994	1.00	0.00
ATOM	827	CG	GLN	52	-6.924	-0.361	-7.027	1.00	0.00
ATOM	828	HG2	GLN	52	-7.055	-1.201	-7.709	1.00	0.00
ATOM	829	HG3	GLN	52	-6.985	-0.716	-5.998	1.00	0.00
ATOM	830	CD	GLN	52	-8.050	0.641	-7.265	1.00	0.00
ATOM	831	OE1	GLN	52	-8.153	1.217	-8.347	1.00	0.00
ATOM	832	NE2	GLN	52	-8.907	0.883	-6.310	1.00	0.00
ATOM	833	HE21	GLN	52	-9.654	1.545	-6.462	1.00	0.00
ATOM	834	HE22	GLN	52	-8.818	0.406	-5.423	1.00	0.00
ATOM	835	C	GLN	52	-3.872	0.877	-9.024	1.00	0.00
ATOM	836	O	GLN	52	-3.838	1.890	-9.722	1.00	0.00
ATOM	837	N	LEU	53	-2.776	0.327	-8.493	1.00	0.00

ATOM	838	H	LEU	53	-2.833	-0.529	-7.959	1.00	0.00
ATOM	839	CA	LEU	53	-1.453	0.917	-8.722	1.00	0.00
ATOM	840	HA	LEU	53	-1.424	1.922	-8.301	1.00	0.00
ATOM	841	CB	LEU	53	-0.353	0.077	-8.059	1.00	0.00
ATOM	842	HB2	LEU	53	-0.187	-0.802	-8.682	1.00	0.00
ATOM	843	HB3	LEU	53	0.562	0.668	-8.016	1.00	0.00
ATOM	844	CG	LEU	53	-0.742	-0.367	-6.642	1.00	0.00
ATOM	845	HG	LEU	53	0.155	-0.362	-6.021	1.00	0.00
ATOM	846	CD1	LEU	53	-1.797	0.565	-6.025	1.00	0.00
ATOM	847	HD11	LEU	53	-2.694	0.560	-6.644	1.00	0.00
ATOM	848	HD12	LEU	53	-2.046	0.218	-5.022	1.00	0.00
ATOM	849	HD13	LEU	53	-1.399	1.578	-5.970	1.00	0.00
ATOM	850	CD2	LEU	53	-1.297	-1.788	-6.729	1.00	0.00
ATOM	851	HD21	LEU	53	-0.534	-2.453	-7.135	1.00	0.00
ATOM	852	HD22	LEU	53	-1.582	-2.129	-5.733	1.00	0.00
ATOM	853	HD23	LEU	53	-2.171	-1.798	-7.380	1.00	0.00
ATOM	854	C	LEU	53	-1.183	0.909	-10.208	1.00	0.00
ATOM	855	O	LEU	53	-0.808	1.912	-10.815	1.00	0.00
ATOM	856	N	GLU	54	-1.402	-0.266	-10.762	1.00	0.00
ATOM	857	H	GLU	54	-1.667	-1.037	-10.165	1.00	0.00
ATOM	858	CA	GLU	54	-1.228	-0.521	-12.170	1.00	0.00
ATOM	859	HA	GLU	54	-0.185	-0.417	-12.470	1.00	0.00

ATOM	860	CB	GLU	54	-1.664	-1.962	-12.415	1.00	0.00
ATOM	861	HB2	GLU	54	-0.956	-2.632	-11.926	1.00	0.00
ATOM	862	HB3	GLU	54	-2.656	-2.108	-11.987	1.00	0.00
ATOM	863	CG	GLU	54	-1.705	-2.269	-13.918	1.00	0.00
ATOM	864	HG2	GLU	54	-2.338	-1.532	-14.412	1.00	0.00
ATOM	865	HG3	GLU	54	-0.694	-2.207	-14.321	1.00	0.00
ATOM	866	CD	GLU	54	-2.267	-3.672	-14.165	1.00	0.00
ATOM	867	OE1	GLU	54	-2.584	-4.352	-13.201	1.00	0.00
ATOM	868	OE2	GLU	54	-2.371	-4.047	-15.322	1.00	0.00
ATOM	869	C	GLU	54	-2.027	0.478	-13.008	1.00	0.00
ATOM	870	O	GLU	54	-1.607	0.860	-14.101	1.00	0.00
ATOM	871	N	GLY	55	-3.166	0.913	-12.474	1.00	0.00
ATOM	872	H	GLY	55	-3.468	0.571	-11.573	1.00	0.00
ATOM	873	CA	GLY	55	-4.009	1.888	-13.164	1.00	0.00
ATOM	874	HA2	GLY	55	-3.916	1.750	-14.241	1.00	0.00
ATOM	875	HA3	GLY	55	-5.048	1.744	-12.867	1.00	0.00
ATOM	876	C	GLY	55	-3.582	3.311	-12.806	1.00	0.00
ATOM	877	O	GLY	55	-3.979	4.275	-13.461	1.00	0.00
ATOM	878	N	MET	56	-2.766	3.425	-11.760	1.00	0.00
ATOM	879	H	MET	56	-2.485	2.598	-11.252	1.00	0.00
ATOM	880	CA	MET	56	-2.271	4.722	-11.302	1.00	0.00
ATOM	881	HA	MET	56	-3.025	5.492	-11.462	1.00	0.00

ATOM	882	CB	MET	56	-1.954	4.650	-9.801	1.00	0.00
ATOM	883	HB2	MET	56	-2.870	4.432	-9.251	1.00	0.00
ATOM	884	HB3	MET	56	-1.228	3.856	-9.626	1.00	0.00
ATOM	885	CG	MET	56	-1.376	5.984	-9.321	1.00	0.00
ATOM	886	HG2	MET	56	-0.995	5.875	-8.305	1.00	0.00
ATOM	887	HG3	MET	56	-0.565	6.292	-9.981	1.00	0.00
ATOM	888	SD	MET	56	-2.670	7.247	-9.338	1.00	0.00
ATOM	889	CE	MET	56	-2.658	7.610	-7.567	1.00	0.00
ATOM	890	HE1	MET	56	-1.669	7.963	-7.274	1.00	0.00
ATOM	891	HE2	MET	56	-3.397	8.380	-7.348	1.00	0.00
ATOM	892	HE3	MET	56	-2.900	6.705	-7.008	1.00	0.00
ATOM	893	C	MET	56	-1.016	5.117	-12.073	1.00	0.00
ATOM	894	O	MET	56	-0.173	4.269	-12.375	1.00	0.00
ATOM	895	N	ASP	57	-0.892	6.409	-12.386	1.00	0.00
ATOM	896	H	ASP	57	-1.615	7.070	-12.139	1.00	0.00
ATOM	897	CA	ASP	57	0.275	6.899	-13.116	1.00	0.00
ATOM	898	HA	ASP	57	0.282	6.488	-14.126	1.00	0.00
ATOM	899	CB	ASP	57	0.235	8.429	-13.209	1.00	0.00
ATOM	900	HB2	ASP	57	0.163	8.841	-12.202	1.00	0.00
ATOM	901	HB3	ASP	57	1.154	8.779	-13.679	1.00	0.00
ATOM	902	CG	ASP	57	-0.968	8.888	-14.036	1.00	0.00
ATOM	903	OD1	ASP	57	-1.533	8.071	-14.747	1.00	0.00



ATOM	904	OD2	ASP	57	-1.307	10.057	-13.946	1.00	0.00
ATOM	905	C	ASP	57	1.558	6.457	-12.416	1.00	0.00
ATOM	906	O	ASP	57	1.605	6.373	-11.189	1.00	0.00
ATOM	907	N	GLU	58	2.590	6.163	-13.202	1.00	0.00
ATOM	908	H	GLU	58	2.505	6.227	-14.206	1.00	0.00
ATOM	909	CA	GLU	58	3.861	5.712	-12.643	1.00	0.00
ATOM	910	HA	GLU	58	3.736	4.745	-12.156	1.00	0.00
ATOM	911	CB	GLU	58	4.894	5.566	-13.762	1.00	0.00
ATOM	912	HB2	GLU	58	4.620	4.732	-14.408	1.00	0.00
ATOM	913	HB3	GLU	58	4.931	6.483	-14.349	1.00	0.00
ATOM	914	CG	GLU	58	6.266	5.301	-13.145	1.00	0.00
ATOM	915	HG2	GLU	58	6.532	6.136	-12.497	1.00	0.00
ATOM	916	HG3	GLU	58	6.225	4.384	-12.556	1.00	0.00
ATOM	917	CD	GLU	58	7.317	5.154	-14.242	1.00	0.00
ATOM	918	OE1	GLU	58	7.322	4.124	-14.898	1.00	0.00
ATOM	919	OE2	GLU	58	8.104	6.072	-14.409	1.00	0.00
ATOM	920	C	GLU	58	4.396	6.679	-11.590	1.00	0.00
ATOM	921	O	GLU	58	4.638	6.289	-10.448	1.00	0.00
ATOM	922	N	SER	59	4.583	7.936	-11.978	1.00	0.00
ATOM	923	H	SER	59	4.390	8.214	-12.929	1.00	0.00
ATOM	924	CA	SER	59	5.092	8.943	-11.052	1.00	0.00
ATOM	925	HA	SER	59	6.097	8.676	-10.722	1.00	0.00

ATOM	926	CB	SER	59	5.151	10.304	-11.748	1.00	0.00
ATOM	927	HB2	SER	59	4.145	10.616	-12.027	1.00	0.00
ATOM	928	HB3	SER	59	5.586	11.041	-11.073	1.00	0.00
ATOM	929	OG	SER	59	5.955	10.199	-12.916	1.00	0.00
ATOM	930	HG	SER	59	5.994	11.051	-13.355	1.00	0.00
ATOM	931	C	SER	59	4.195	9.032	-9.824	1.00	0.00
ATOM	932	O	SER	59	4.661	9.269	-8.709	1.00	0.00
ATOM	933	N	CYX	60	2.904	8.835	-10.052	1.00	0.00
ATOM	934	H	CYX	60	2.582	8.667	-10.994	1.00	0.00
ATOM	935	CA	CYX	60	1.913	8.887	-8.979	1.00	0.00
ATOM	936	HA	CYX	60	2.109	9.740	-8.330	1.00	0.00
ATOM	937	CB	CYX	60	0.510	9.034	-9.571	1.00	0.00
ATOM	938	HB2	CYX	60	0.287	8.169	-10.195	1.00	0.00
ATOM	939	HB3	CYX	60	-0.220	9.097	-8.764	1.00	0.00
ATOM	940	SG	CYX	60	0.431	10.546	-10.562	1.00	0.00
ATOM	941	C	CYX	60	1.976	7.634	-8.113	1.00	0.00
ATOM	942	O	CYX	60	1.570	7.649	-6.950	1.00	0.00
ATOM	943	N	ARG	61	2.463	6.545	-8.700	1.00	0.00
ATOM	944	H	ARG	61	2.769	6.582	-9.662	1.00	0.00
ATOM	945	CA	ARG	61	2.552	5.272	-7.995	1.00	0.00
ATOM	946	HA	ARG	61	1.567	4.959	-7.649	1.00	0.00
ATOM	947	CB	ARG	61	3.098	4.204	-8.947	1.00	0.00

ATOM	948	HB2 ARG	61	2.546	4.246	-9.885	1.00	0.00
ATOM	949	HB3 ARG	61	4.153	4.401	-9.137	1.00	0.00
ATOM	950	CG ARG	61	2.943	2.812	-8.326	1.00	0.00
ATOM	951	HG2 ARG	61	3.414	2.794	-7.343	1.00	0.00
ATOM	952	HG3 ARG	61	1.885	2.571	-8.226	1.00	0.00
ATOM	953	CD ARG	61	3.617	1.780	-9.232	1.00	0.00
ATOM	954	HD2 ARG	61	4.697	1.931	-9.231	1.00	0.00
ATOM	955	HD3 ARG	61	3.392	0.772	-8.882	1.00	0.00
ATOM	956	NE ARG	61	3.126	1.921	-10.601	1.00	0.00
ATOM	957	HE ARG	61	3.523	2.629	-11.202	1.00	0.00
ATOM	958	CZ ARG	61	2.159	1.145	-11.086	1.00	0.00
ATOM	959	NH1 ARG	61	1.644	0.192	-10.355	1.00	0.00
ATOM	960	HH11 ARG	61	1.982	0.042	-9.415	1.00	0.00
ATOM	961	HH12 ARG	61	0.911	-0.391	-10.733	1.00	0.00
ATOM	962	NH2 ARG	61	1.729	1.335	-12.302	1.00	0.00
ATOM	963	HH21 ARG	61	2.132	2.068	-12.868	1.00	0.00
ATOM	964	HH22 ARG	61	0.996	0.748	-12.672	1.00	0.00
ATOM	965	C ARG	61	3.463	5.382	-6.775	1.00	0.00
ATOM	966	O ARG	61	3.170	4.810	-5.724	1.00	0.00
ATOM	967	N CYX	62	4.563	6.120	-6.915	1.00	0.00
ATOM	968	H CYX	62	4.779	6.566	-7.795	1.00	0.00
ATOM	969	CA CYX	62	5.497	6.290	-5.806	1.00	0.00

ATOM	970	HA	CYX	62	5.918	5.325	-5.521	1.00	0.00
ATOM	971	CB	CYX	62	6.643	7.221	-6.222	1.00	0.00
ATOM	972	HB2	CYX	62	6.317	8.258	-6.141	1.00	0.00
ATOM	973	HB3	CYX	62	7.500	7.058	-5.568	1.00	0.00
ATOM	974	SG	CYX	62	7.106	6.895	-7.942	1.00	0.00
ATOM	975	C	CYX	62	4.772	6.880	-4.598	1.00	0.00
ATOM	976	O	CYX	62	4.730	6.277	-3.525	1.00	0.00
ATOM	977	N	GLU	63	4.192	8.062	-4.796	1.00	0.00
ATOM	978	H	GLU	63	4.267	8.513	-5.696	1.00	0.00
ATOM	979	CA	GLU	63	3.451	8.744	-3.740	1.00	0.00
ATOM	980	HA	GLU	63	4.106	8.953	-2.893	1.00	0.00
ATOM	981	CB	GLU	63	2.903	10.070	-4.275	1.00	0.00
ATOM	982	HB2	GLU	63	3.711	10.627	-4.750	1.00	0.00
ATOM	983	HB3	GLU	63	2.122	9.867	-5.007	1.00	0.00
ATOM	984	CG	GLU	63	2.319	10.899	-3.121	1.00	0.00
ATOM	985	HG2	GLU	63	1.598	10.289	-2.576	1.00	0.00
ATOM	986	HG3	GLU	63	3.129	11.189	-2.451	1.00	0.00
ATOM	987	CD	GLU	63	1.625	12.154	-3.655	1.00	0.00
ATOM	988	OE1	GLU	63	1.529	12.297	-4.865	1.00	0.00
ATOM	989	OE2	GLU	63	1.196	12.957	-2.842	1.00	0.00
ATOM	990	C	GLU	63	2.289	7.885	-3.246	1.00	0.00
ATOM	991	O	GLU	63	1.959	7.888	-2.060	1.00	0.00

ATOM	992	N	GLY	64	1.656	7.174	-4.180	1.00	0.00
ATOM	993	H	GLY	64	1.970	7.208	-5.139	1.00	0.00
ATOM	994	CA	GLY	64	0.505	6.334	-3.857	1.00	0.00
ATOM	995	HA2	GLY	64	-0.327	6.979	-3.577	1.00	0.00
ATOM	996	HA3	GLY	64	0.237	5.758	-4.742	1.00	0.00
ATOM	997	C	GLY	64	0.795	5.373	-2.710	1.00	0.00
ATOM	998	O	GLY	64	0.108	5.397	-1.689	1.00	0.00
ATOM	999	N	LEU	65	1.802	4.523	-2.884	1.00	0.00
ATOM	1000	H	LEU	65	2.324	4.511	-3.748	1.00	0.00
ATOM	1001	CA	LEU	65	2.152	3.553	-1.851	1.00	0.00
ATOM	1002	HA	LEU	65	1.316	2.875	-1.678	1.00	0.00
ATOM	1003	CB	LEU	65	3.367	2.729	-2.290	1.00	0.00
ATOM	1004	HB2	LEU	65	4.197	3.399	-2.513	1.00	0.00
ATOM	1005	HB3	LEU	65	3.655	2.050	-1.487	1.00	0.00
ATOM	1006	CG	LEU	65	3.014	1.918	-3.542	1.00	0.00
ATOM	1007	HG	LEU	65	2.785	2.598	-4.362	1.00	0.00
ATOM	1008	CD1	LEU	65	4.201	1.033	-3.930	1.00	0.00
ATOM	1009	HD11	LEU	65	4.431	0.352	-3.110	1.00	0.00
ATOM	1010	HD12	LEU	65	3.950	0.456	-4.820	1.00	0.00
ATOM	1011	HD13	LEU	65	5.070	1.658	-4.136	1.00	0.00
ATOM	1012	CD2	LEU	65	1.791	1.036	-3.254	1.00	0.00
ATOM	1013	HD21	LEU	65	0.945	1.665	-2.979	1.00	0.00

ATOM	1014	HD22	LEU	65	1.541	0.459	-4.144	1.00	0.00
ATOM	1015	HD23	LEU	65	2.019	0.355	-2.433	1.00	0.00
ATOM	1016	C	LEU	65	2.447	4.236	-0.520	1.00	0.00
ATOM	1017	O	LEU	65	1.972	3.796	0.525	1.00	0.00
ATOM	1018	N	ARG	66	3.229	5.313	-0.561	1.00	0.00
ATOM	1019	H	ARG	66	3.617	5.640	-1.434	1.00	0.00
ATOM	1020	CA	ARG	66	3.567	6.036	0.661	1.00	0.00
ATOM	1021	HA	ARG	66	4.112	5.383	1.344	1.00	0.00
ATOM	1022	CB	ARG	66	4.451	7.242	0.328	1.00	0.00
ATOM	1023	HB2	ARG	66	3.950	7.865	-0.413	1.00	0.00
ATOM	1024	HB3	ARG	66	4.626	7.824	1.233	1.00	0.00
ATOM	1025	CG	ARG	66	5.791	6.758	-0.234	1.00	0.00
ATOM	1026	HG2	ARG	66	6.272	6.099	0.490	1.00	0.00
ATOM	1027	HG3	ARG	66	5.620	6.213	-1.162	1.00	0.00
ATOM	1028	CD	ARG	66	6.697	7.962	-0.508	1.00	0.00
ATOM	1029	HD2	ARG	66	7.594	7.637	-1.037	1.00	0.00
ATOM	1030	HD3	ARG	66	6.165	8.695	-1.113	1.00	0.00
ATOM	1031	NE	ARG	66	7.097	8.593	0.748	1.00	0.00
ATOM	1032	HE	ARG	66	6.636	9.436	1.058	1.00	0.00
ATOM	1033	CZ	ARG	66	8.065	8.082	1.508	1.00	0.00
ATOM	1034	NH1	ARG	66	8.685	6.993	1.139	1.00	0.00
ATOM	1035	HH11	ARG	66	8.429	6.538	0.275	1.00	0.00

ATOM	1036	HH12	ARG	66	9.418	6.611	1.720	1.00	0.00
ATOM	1037	NH2	ARG	66	8.395	8.671	2.623	1.00	0.00
ATOM	1038	HH21	ARG	66	7.916	9.513	2.907	1.00	0.00
ATOM	1039	HH22	ARG	66	9.129	8.282	3.198	1.00	0.00
ATOM	1040	C	ARG	66	2.303	6.512	1.373	1.00	0.00
ATOM	1041	O	ARG	66	2.103	6.236	2.557	1.00	0.00
ATOM	1042	N	MET	67	1.454	7.225	0.637	1.00	0.00
ATOM	1043	H	MET	67	1.677	7.445	-0.323	1.00	0.00
ATOM	1044	CA	MET	67	0.205	7.738	1.193	1.00	0.00
ATOM	1045	HA	MET	67	0.409	8.363	2.063	1.00	0.00
ATOM	1046	CB	MET	67	-0.521	8.584	0.141	1.00	0.00
ATOM	1047	HB2	MET	67	-0.011	9.541	0.031	1.00	0.00
ATOM	1048	HB3	MET	67	-0.515	8.058	-0.814	1.00	0.00
ATOM	1049	CG	MET	67	-1.969	8.824	0.583	1.00	0.00
ATOM	1050	HG2	MET	67	-2.525	7.888	0.539	1.00	0.00
ATOM	1051	HG3	MET	67	-1.982	9.205	1.604	1.00	0.00
ATOM	1052	SD	MET	67	-2.751	10.035	-0.515	1.00	0.00
ATOM	1053	CE	MET	67	-1.768	11.473	-0.019	1.00	0.00
ATOM	1054	HE1	MET	67	-0.714	11.280	-0.220	1.00	0.00
ATOM	1055	HE2	MET	67	-2.091	12.347	-0.584	1.00	0.00
ATOM	1056	HE3	MET	67	-1.906	11.658	1.046	1.00	0.00
ATOM	1057	C	MET	67	-0.708	6.607	1.659	1.00	0.00

ATOM	1058	O	MET	67	-1.246	6.645	2.766	1.00	0.00
ATOM	1059	N	MET	68	-0.895	5.617	0.793	1.00	0.00
ATOM	1060	H	MET	68	-0.460	5.648	-0.118	1.00	0.00
ATOM	1061	CA	MET	68	-1.767	4.490	1.104	1.00	0.00
ATOM	1062	HA	MET	68	-2.765	4.842	1.362	1.00	0.00
ATOM	1063	CB	MET	68	-1.871	3.578	-0.122	1.00	0.00
ATOM	1064	HB2	MET	68	-2.576	4.011	-0.831	1.00	0.00
ATOM	1065	HB3	MET	68	-0.890	3.495	-0.590	1.00	0.00
ATOM	1066	CG	MET	68	-2.357	2.185	0.295	1.00	0.00
ATOM	1067	HG2	MET	68	-1.566	1.666	0.838	1.00	0.00
ATOM	1068	HG3	MET	68	-3.235	2.277	0.934	1.00	0.00
ATOM	1069	SD	MET	68	-2.792	1.231	-1.178	1.00	0.00
ATOM	1070	CE	MET	68	-1.115	1.035	-1.826	1.00	0.00
ATOM	1071	HE1	MET	68	-0.502	0.507	-1.095	1.00	0.00
ATOM	1072	HE2	MET	68	-1.147	0.463	-2.753	1.00	0.00
ATOM	1073	HE3	MET	68	-0.683	2.016	-2.020	1.00	0.00
ATOM	1074	C	MET	68	-1.264	3.702	2.310	1.00	0.00
ATOM	1075	O	MET	68	-2.040	3.381	3.208	1.00	0.00
ATOM	1076	N	MET	69	0.029	3.389	2.331	1.00	0.00
ATOM	1077	H	MET	69	0.641	3.650	1.571	1.00	0.00
ATOM	1078	CA	MET	69	0.594	2.633	3.444	1.00	0.00
ATOM	1079	HA	MET	69	0.197	1.618	3.447	1.00	0.00



ATOM	1080	CB	MET	69	2.119	2.562	3.308	1.00	0.00
ATOM	1081	HB2	MET	69	2.376	2.167	2.325	1.00	0.00
ATOM	1082	HB3	MET	69	2.539	3.562	3.418	1.00	0.00
ATOM	1083	CG	MET	69	2.693	1.646	4.392	1.00	0.00
ATOM	1084	HG2	MET	69	2.389	2.003	5.376	1.00	0.00
ATOM	1085	HG3	MET	69	2.328	0.629	4.247	1.00	0.00
ATOM	1086	SD	MET	69	4.500	1.649	4.290	1.00	0.00
ATOM	1087	CE	MET	69	4.805	0.418	5.581	1.00	0.00
ATOM	1088	HE1	MET	69	4.327	-0.523	5.307	1.00	0.00
ATOM	1089	HE2	MET	69	5.879	0.261	5.689	1.00	0.00
ATOM	1090	HE3	MET	69	4.394	0.772	6.526	1.00	0.00
ATOM	1091	C	MET	69	0.224	3.288	4.772	1.00	0.00
ATOM	1092	O	MET	69	-0.334	2.644	5.661	1.00	0.00
ATOM	1093	N	ARG	70	0.534	4.575	4.890	1.00	0.00
ATOM	1094	H	ARG	70	1.007	5.053	4.137	1.00	0.00
ATOM	1095	CA	ARG	70	0.229	5.326	6.103	1.00	0.00
ATOM	1096	HA	ARG	70	0.706	4.860	6.966	1.00	0.00
ATOM	1097	CB	ARG	70	0.758	6.757	5.965	1.00	0.00
ATOM	1098	HB2	ARG	70	0.319	7.224	5.084	1.00	0.00
ATOM	1099	HB3	ARG	70	0.490	7.331	6.852	1.00	0.00
ATOM	1100	CG	ARG	70	2.283	6.725	5.820	1.00	0.00
ATOM	1101	HG2	ARG	70	2.721	6.252	6.699	1.00	0.00

ATOM	1102	HG3 ARG	70	2.551	6.154	4.931	1.00	0.00
ATOM	1103	CD ARG	70	2.818	8.153	5.690	1.00	0.00
ATOM	1104	HD2 ARG	70	2.250	8.696	4.935	1.00	0.00
ATOM	1105	HD3 ARG	70	2.737	8.669	6.647	1.00	0.00
ATOM	1106	NE ARG	70	4.222	8.128	5.290	1.00	0.00
ATOM	1107	HE ARG	70	4.798	7.330	5.519	1.00	0.00
ATOM	1108	CZ ARG	70	4.774	9.141	4.622	1.00	0.00
ATOM	1109	NH1 ARG	70	4.065	10.196	4.318	1.00	0.00
ATOM	1110	HH11 ARG	70	3.094	10.243	4.591	1.00	0.00
ATOM	1111	HH12 ARG	70	4.492	10.958	3.812	1.00	0.00
ATOM	1112	NH2 ARG	70	6.029	9.080	4.270	1.00	0.00
ATOM	1113	HH21 ARG	70	6.578	8.265	4.506	1.00	0.00
ATOM	1114	HH22 ARG	70	6.447	9.848	3.764	1.00	0.00
ATOM	1115	C ARG	70	-1.277	5.361	6.363	1.00	0.00
ATOM	1116	O ARG	70	-1.723	5.209	7.500	1.00	0.00
ATOM	1117	N MET	71	-2.051	5.570	5.297	1.00	0.00
ATOM	1118	H MET	71	-1.631	5.712	4.390	1.00	0.00
ATOM	1119	CA MET	71	-3.503	5.635	5.405	1.00	0.00
ATOM	1120	HA MET	71	-3.790	6.382	6.145	1.00	0.00
ATOM	1121	CB MET	71	-4.109	6.026	4.054	1.00	0.00
ATOM	1122	HB2 MET	71	-3.593	6.905	3.667	1.00	0.00
ATOM	1123	HB3 MET	71	-3.993	5.199	3.353	1.00	0.00

ATOM	1124	CG	MET	71	-5.598	6.343	4.229	1.00	0.00
ATOM	1125	HG2	MET	71	-6.101	5.497	4.698	1.00	0.00
ATOM	1126	HG3	MET	71	-5.714	7.227	4.856	1.00	0.00
ATOM	1127	SD	MET	71	-6.346	6.659	2.610	1.00	0.00
ATOM	1128	CE	MET	71	-5.409	8.154	2.203	1.00	0.00
ATOM	1129	HE1	MET	71	-4.344	7.921	2.182	1.00	0.00
ATOM	1130	HE2	MET	71	-5.719	8.523	1.226	1.00	0.00
ATOM	1131	HE3	MET	71	-5.598	8.918	2.957	1.00	0.00
ATOM	1132	C	MET	71	-4.074	4.299	5.860	1.00	0.00
ATOM	1133	O	MET	71	-5.022	4.255	6.644	1.00	0.00
ATOM	1134	N	MET	72	-3.501	3.213	5.353	1.00	0.00
ATOM	1135	H	MET	72	-2.739	3.289	4.694	1.00	0.00
ATOM	1136	CA	MET	72	-3.975	1.884	5.709	1.00	0.00
ATOM	1137	HA	MET	72	-5.010	1.759	5.392	1.00	0.00
ATOM	1138	CB	MET	72	-3.119	0.818	5.017	1.00	0.00
ATOM	1139	HB2	MET	72	-2.068	1.099	5.088	1.00	0.00
ATOM	1140	HB3	MET	72	-3.272	-0.142	5.511	1.00	0.00
ATOM	1141	CG	MET	72	-3.518	0.703	3.543	1.00	0.00
ATOM	1142	HG2	MET	72	-3.489	1.687	3.076	1.00	0.00
ATOM	1143	HG3	MET	72	-2.828	0.035	3.026	1.00	0.00
ATOM	1144	SD	MET	72	-5.197	0.035	3.421	1.00	0.00
ATOM	1145	CE	MET	72	-4.853	-1.589	4.146	1.00	0.00

ATOM	1146	HE1	MET	72	-4.477	-1.462	5.162	1.00	0.00
ATOM	1147	HE2	MET	72	-5.769	-2.179	4.169	1.00	0.00
ATOM	1148	HE3	MET	72	-4.104	-2.105	3.545	1.00	0.00
ATOM	1149	C	MET	72	-3.928	1.676	7.217	1.00	0.00
ATOM	1150	O	MET	72	-4.943	1.360	7.841	1.00	0.00
ATOM	1151	N	GLN	73	-2.746	1.862	7.795	1.00	0.00
ATOM	1152	H	GLN	73	-1.936	2.098	7.239	1.00	0.00
ATOM	1153	CA	GLN	73	-2.573	1.701	9.233	1.00	0.00
ATOM	1154	HA	GLN	73	-2.862	0.693	9.533	1.00	0.00
ATOM	1155	CB	GLN	73	-1.107	1.923	9.614	1.00	0.00
ATOM	1156	HB2	GLN	73	-0.813	2.937	9.345	1.00	0.00
ATOM	1157	HB3	GLN	73	-0.988	1.784	10.689	1.00	0.00
ATOM	1158	CG	GLN	73	-0.221	0.921	8.869	1.00	0.00
ATOM	1159	HG2	GLN	73	-0.206	1.138	7.801	1.00	0.00
ATOM	1160	HG3	GLN	73	0.794	0.973	9.264	1.00	0.00
ATOM	1161	CD	GLN	73	-0.749	-0.493	9.071	1.00	0.00
ATOM	1162	OE1	GLN	73	-0.713	-1.020	10.183	1.00	0.00
ATOM	1163	NE2	GLN	73	-1.256	-1.134	8.057	1.00	0.00
ATOM	1164	HE21	GLN	73	-1.608	-2.073	8.182	1.00	0.00
ATOM	1165	HE22	GLN	73	-1.294	-0.690	7.151	1.00	0.00
ATOM	1166	C	GLN	73	-3.458	2.683	9.994	1.00	0.00
ATOM	1167	O	GLN	73	-4.053	2.339	11.011	1.00	0.00

ATOM	1168	N	GLN	74	-3.530	3.910	9.491	1.00	0.00
ATOM	1169	H	GLN	74	-2.995	4.158	8.671	1.00	0.00
ATOM	1170	CA	GLN	74	-4.335	4.944	10.130	1.00	0.00
ATOM	1171	HA	GLN	74	-4.025	5.075	11.167	1.00	0.00
ATOM	1172	CB	GLN	74	-4.148	6.273	9.391	1.00	0.00
ATOM	1173	HB2	GLN	74	-3.211	6.734	9.704	1.00	0.00
ATOM	1174	HB3	GLN	74	-4.121	6.090	8.317	1.00	0.00
ATOM	1175	CG	GLN	74	-5.312	7.210	9.720	1.00	0.00
ATOM	1176	HG2	GLN	74	-5.854	6.847	10.594	1.00	0.00
ATOM	1177	HG3	GLN	74	-4.936	8.214	9.918	1.00	0.00
ATOM	1178	CD	GLN	74	-6.275	7.274	8.541	1.00	0.00
ATOM	1179	OE1	GLN	74	-6.305	6.288	7.690	1.00	0.00
ATOM	1180	NE2	GLN	74	-7.020	8.243	8.395	1.00	0.00
ATOM	1181	HE21	GLN	74	-7.654	8.274	7.610	1.00	0.00
ATOM	1182	HE22	GLN	74	-6.993	9.001	9.062	1.00	0.00
ATOM	1183	C	GLN	74	-5.815	4.566	10.166	1.00	0.00
ATOM	1184	O	GLN	74	-6.485	4.757	11.182	1.00	0.00
ATOM	1185	N	LYS	75	-6.320	4.044	9.055	1.00	0.00
ATOM	1186	H	LYS	75	-5.741	3.915	8.237	1.00	0.00
ATOM	1187	CA	LYS	75	-7.727	3.666	8.974	1.00	0.00
ATOM	1188	HA	LYS	75	-8.361	4.537	9.139	1.00	0.00
ATOM	1189	CB	LYS	75	-8.027	3.097	7.584	1.00	0.00

ATOM	1190	HB2	LYS	75	-7.695	3.806	6.826	1.00	0.00
ATOM	1191	HB3	LYS	75	-7.493	2.155	7.458	1.00	0.00
ATOM	1192	CG	LYS	75	-9.534	2.855	7.433	1.00	0.00
ATOM	1193	HG2	LYS	75	-9.710	2.198	6.581	1.00	0.00
ATOM	1194	HG3	LYS	75	-9.916	2.384	8.339	1.00	0.00
ATOM	1195	CD	LYS	75	-10.255	4.188	7.207	1.00	0.00
ATOM	1196	HD2	LYS	75	-10.137	4.818	8.089	1.00	0.00
ATOM	1197	HD3	LYS	75	-9.825	4.691	6.341	1.00	0.00
ATOM	1198	CE	LYS	75	-11.743	3.930	6.960	1.00	0.00
ATOM	1199	HE2	LYS	75	-12.132	3.276	7.740	1.00	0.00
ATOM	1200	HE3	LYS	75	-12.283	4.876	6.977	1.00	0.00
ATOM	1201	NZ	LYS	75	-11.922	3.279	5.631	1.00	0.00
ATOM	1202	HZ1	LYS	75	-11.421	2.401	5.616	1.00	0.00
ATOM	1203	HZ2	LYS	75	-12.904	3.109	5.469	1.00	0.00
ATOM	1204	HZ3	LYS	75	-11.561	3.885	4.908	1.00	0.00
ATOM	1205	C	LYS	75	-8.075	2.629	10.038	1.00	0.00
ATOM	1206	O	LYS	75	-9.130	2.703	10.670	1.00	0.00
ATOM	1207	N	GLU	76	-7.181	1.668	10.225	1.00	0.00
ATOM	1208	H	GLU	76	-6.339	1.635	9.667	1.00	0.00
ATOM	1209	CA	GLU	76	-7.398	0.613	11.214	1.00	0.00
ATOM	1210	HA	GLU	76	-7.712	1.047	12.163	1.00	0.00
ATOM	1211	CB	GLU	76	-8.495	-0.343	10.725	1.00	0.00

ATOM	1212	HB2	GLU	76	-9.366	0.235	10.418	1.00	0.00
ATOM	1213	HB3	GLU	76	-8.122	-0.916	9.876	1.00	0.00
ATOM	1214	CG	GLU	76	-8.891	-1.304	11.856	1.00	0.00
ATOM	1215	HG2	GLU	76	-9.555	-2.069	11.453	1.00	0.00
ATOM	1216	HG3	GLU	76	-7.991	-1.776	12.251	1.00	0.00
ATOM	1217	CD	GLU	76	-9.605	-0.550	12.979	1.00	0.00
ATOM	1218	OE1	GLU	76	-10.223	0.466	12.696	1.00	0.00
ATOM	1219	OE2	GLU	76	-9.523	-1.000	14.110	1.00	0.00
ATOM	1220	C	GLU	76	-6.107	-0.163	11.466	1.00	0.00
ATOM	1221	O	GLU	76	-5.950	-1.290	10.992	1.00	0.00
ATOM	1222	N	MET	77	-5.182	0.446	12.201	1.00	0.00
ATOM	1223	H	MET	77	-5.337	1.381	12.549	1.00	0.00
ATOM	1224	CA	MET	77	-3.906	-0.200	12.499	1.00	0.00
ATOM	1225	HA	MET	77	-3.354	-0.381	11.577	1.00	0.00
ATOM	1226	CB	MET	77	-3.061	0.702	13.407	1.00	0.00
ATOM	1227	HB2	MET	77	-2.995	1.697	12.968	1.00	0.00
ATOM	1228	HB3	MET	77	-3.530	0.769	14.389	1.00	0.00
ATOM	1229	CG	MET	77	-1.654	0.115	13.554	1.00	0.00
ATOM	1230	HG2	MET	77	-1.717	-0.904	13.936	1.00	0.00
ATOM	1231	HG3	MET	77	-1.154	0.108	12.586	1.00	0.00
ATOM	1232	SD	MET	77	-0.697	1.125	14.710	1.00	0.00
ATOM	1233	CE	MET	77	0.872	0.239	14.544	1.00	0.00

ATOM	1234	HE1	MET	77	1.205	0.280	13.507	1.00	0.00
ATOM	1235	HE2	MET	77	1.622	0.703	15.185	1.00	0.00
ATOM	1236	HE3	MET	77	0.736	-0.801	14.841	1.00	0.00
ATOM	1237	C	MET	77	-4.124	-1.553	13.176	1.00	0.00
ATOM	1238	O	MET	77	-4.237	-1.629	14.401	1.00	0.00
ATOM	1239	N	GLN	78	-4.168	-2.617	12.377	1.00	0.00
ATOM	1240	H	GLN	78	-4.087	-2.512	11.376	1.00	0.00
ATOM	1241	CA	GLN	78	-4.353	-3.960	12.919	1.00	0.00
ATOM	1242	HA	GLN	78	-5.339	-4.046	13.376	1.00	0.00
ATOM	1243	CB	GLN	78	-4.240	-5.001	11.798	1.00	0.00
ATOM	1244	HB2	GLN	78	-3.816	-4.532	10.910	1.00	0.00
ATOM	1245	HB3	GLN	78	-3.591	-5.815	12.124	1.00	0.00
ATOM	1246	CG	GLN	78	-5.629	-5.557	11.468	1.00	0.00
ATOM	1247	HG2	GLN	78	-6.076	-5.997	12.360	1.00	0.00
ATOM	1248	HG3	GLN	78	-6.271	-4.759	11.097	1.00	0.00
ATOM	1249	CD	GLN	78	-5.520	-6.636	10.393	1.00	0.00
ATOM	1250	OE1	GLN	78	-4.708	-7.554	10.512	1.00	0.00
ATOM	1251	NE2	GLN	78	-6.295	-6.580	9.344	1.00	0.00
ATOM	1252	HE21	GLN	78	-6.226	-7.292	8.631	1.00	0.00
ATOM	1253	HE22	GLN	78	-6.959	-5.826	9.251	1.00	0.00
ATOM	1254	C	GLN	78	-3.294	-4.232	13.988	1.00	0.00
ATOM	1255	O	GLN	78	-2.115	-3.942	13.777	1.00	0.00



ATOM	1256	N	PRO	79	-3.674	-4.772	15.120	1.00	0.00
ATOM	1257	CD	PRO	79	-5.037	-5.167	15.494	1.00	0.00
ATOM	1258	HD2	PRO	79	-5.315	-6.064	14.940	1.00	0.00
ATOM	1259	HD3	PRO	79	-5.725	-4.359	15.247	1.00	0.00
ATOM	1260	CG	PRO	79	-4.943	-5.414	17.008	1.00	0.00
ATOM	1261	HG2	PRO	79	-5.056	-6.481	17.201	1.00	0.00
ATOM	1262	HG3	PRO	79	-5.743	-4.868	17.507	1.00	0.00
ATOM	1263	CB	PRO	79	-3.605	-4.919	17.449	1.00	0.00
ATOM	1264	HB2	PRO	79	-3.247	-5.579	18.240	1.00	0.00
ATOM	1265	HB3	PRO	79	-3.583	-3.888	17.800	1.00	0.00
ATOM	1266	CA	PRO	79	-2.726	-5.066	16.216	1.00	0.00
ATOM	1267	HA	PRO	79	-1.905	-4.351	16.165	1.00	0.00
ATOM	1268	C	PRO	79	-2.173	-6.479	16.111	1.00	0.00
ATOM	1269	O	PRO	79	-2.893	-7.461	16.300	1.00	0.00
ATOM	1270	N	ARG	80	-0.891	-6.561	15.821	1.00	0.00
ATOM	1271	H	ARG	80	-0.356	-5.720	15.657	1.00	0.00
ATOM	1272	CA	ARG	80	-0.215	-7.843	15.699	1.00	0.00
ATOM	1273	HA	ARG	80	-0.338	-8.414	16.620	1.00	0.00
ATOM	1274	CB	ARG	80	-0.802	-8.651	14.540	1.00	0.00
ATOM	1275	HB2	ARG	80	-1.506	-8.033	13.984	1.00	0.00
ATOM	1276	HB3	ARG	80	0.001	-8.974	13.877	1.00	0.00
ATOM	1277	CG	ARG	80	-1.529	-9.879	15.095	1.00	0.00

ATOM	1278	HG2 ARG	80	-0.815	-10.691	15.232	1.00	0.00
ATOM	1279	HG3 ARG	80	-1.982	-9.629	16.055	1.00	0.00
ATOM	1280	CD ARG	80	-2.618	-10.318	14.117	1.00	0.00
ATOM	1281	HD2 ARG	80	-2.461	-9.842	13.149	1.00	0.00
ATOM	1282	HD3 ARG	80	-2.593	-11.401	13.997	1.00	0.00
ATOM	1283	NE ARG	80	-3.935	-9.932	14.621	1.00	0.00
ATOM	1284	HE ARG	80	-4.403	-10.519	15.298	1.00	0.00
ATOM	1285	CZ ARG	80	-4.546	-8.820	14.212	1.00	0.00
ATOM	1286	NH1 ARG	80	-3.970	-8.028	13.348	1.00	0.00
ATOM	1287	HH11 ARG	80	-3.055	-8.260	12.987	1.00	0.00
ATOM	1288	HH12 ARG	80	-4.441	-7.188	13.045	1.00	0.00
ATOM	1289	NH2 ARG	80	-5.726	-8.521	14.679	1.00	0.00
ATOM	1290	HH21 ARG	80	-6.171	-9.133	15.348	1.00	0.00
ATOM	1291	HH22 ARG	80	-6.189	-7.679	14.370	1.00	0.00
ATOM	1292	C ARG	80	1.275	-7.624	15.473	1.00	0.00
ATOM	1293	O ARG	80	1.664	-6.876	14.575	1.00	0.00
ATOM	1294	N GLY	81	2.107	-8.267	16.285	1.00	0.00
ATOM	1295	H GLY	81	1.766	-8.877	17.015	1.00	0.00
ATOM	1296	CA GLY	81	3.546	-8.105	16.139	1.00	0.00
ATOM	1297	HA2 GLY	81	3.749	-7.109	15.747	1.00	0.00
ATOM	1298	HA3 GLY	81	4.012	-8.211	17.119	1.00	0.00
ATOM	1299	C GLY	81	4.142	-9.143	15.191	1.00	0.00

ATOM	1300	O	GLY	81	4.520	-8.820	14.068	1.00	0.00
ATOM	1301	N	GLU	82	4.236	-10.383	15.661	1.00	0.00
ATOM	1302	H	GLU	82	3.936	-10.590	16.603	1.00	0.00
ATOM	1303	CA	GLU	82	4.811	-11.467	14.863	1.00	0.00
ATOM	1304	HA	GLU	82	5.818	-11.203	14.539	1.00	0.00
ATOM	1305	CB	GLU	82	4.887	-12.744	15.706	1.00	0.00
ATOM	1306	HB2	GLU	82	3.903	-12.962	16.121	1.00	0.00
ATOM	1307	HB3	GLU	82	5.207	-13.574	15.076	1.00	0.00
ATOM	1308	CG	GLU	82	5.894	-12.553	16.850	1.00	0.00
ATOM	1309	HG2	GLU	82	6.186	-13.533	17.228	1.00	0.00
ATOM	1310	HG3	GLU	82	6.773	-12.038	16.462	1.00	0.00
ATOM	1311	CD	GLU	82	5.280	-11.730	17.986	1.00	0.00
ATOM	1312	OE1	GLU	82	4.067	-11.751	18.131	1.00	0.00
ATOM	1313	OE2	GLU	82	6.036	-11.088	18.697	1.00	0.00
ATOM	1314	C	GLU	82	4.020	-11.755	13.585	1.00	0.00
ATOM	1315	O	GLU	82	4.608	-11.957	12.522	1.00	0.00
ATOM	1316	N	GLN	83	2.694	-11.814	13.695	1.00	0.00
ATOM	1317	H	GLN	83	2.245	-11.671	14.588	1.00	0.00
ATOM	1318	CA	GLN	83	1.854	-12.127	12.538	1.00	0.00
ATOM	1319	HA	GLN	83	2.123	-13.102	12.130	1.00	0.00
ATOM	1320	CB	GLN	83	0.382	-12.163	12.965	1.00	0.00
ATOM	1321	HB2	GLN	83	0.272	-12.829	13.821	1.00	0.00

ATOM	1322	HB3	GLN	83	0.063	-11.159	13.244	1.00	0.00
ATOM	1323	CG	GLN	83	-0.484	-12.671	11.808	1.00	0.00
ATOM	1324	HG2	GLN	83	-1.537	-12.492	12.024	1.00	0.00
ATOM	1325	HG3	GLN	83	-0.210	-12.158	10.886	1.00	0.00
ATOM	1326	CD	GLN	83	-0.274	-14.170	11.613	1.00	0.00
ATOM	1327	OE1	GLN	83	-0.669	-14.968	12.462	1.00	0.00
ATOM	1328	NE2	GLN	83	0.327	-14.601	10.538	1.00	0.00
ATOM	1329	HE21	GLN	83	0.468	-15.593	10.405	1.00	0.00
ATOM	1330	HE22	GLN	83	0.649	-13.942	9.844	1.00	0.00
ATOM	1331	C	GLN	83	2.032	-11.114	11.404	1.00	0.00
ATOM	1332	O	GLN	83	2.505	-11.460	10.322	1.00	0.00
ATOM	1333	N	MET	84	1.640	-9.869	11.659	1.00	0.00
ATOM	1334	H	MET	84	1.198	-9.647	12.540	1.00	0.00
ATOM	1335	CA	MET	84	1.750	-8.815	10.653	1.00	0.00
ATOM	1336	HA	MET	84	1.256	-9.127	9.733	1.00	0.00
ATOM	1337	CB	MET	84	1.085	-7.533	11.154	1.00	0.00
ATOM	1338	HB2	MET	84	1.346	-7.371	12.200	1.00	0.00
ATOM	1339	HB3	MET	84	1.428	-6.687	10.559	1.00	0.00
ATOM	1340	CG	MET	84	-0.439	-7.667	11.022	1.00	0.00
ATOM	1341	HG2	MET	84	-0.706	-7.833	9.979	1.00	0.00
ATOM	1342	HG3	MET	84	-0.789	-8.506	11.624	1.00	0.00
ATOM	1343	SD	MET	84	-1.229	-6.146	11.604	1.00	0.00

ATOM	1344	CE	MET	84	-0.749	-5.084	10.219	1.00	0.00
ATOM	1345	HE1	MET	84	-1.154	-5.490	9.292	1.00	0.00
ATOM	1346	HE2	MET	84	-1.141	-4.080	10.378	1.00	0.00
ATOM	1347	HE3	MET	84	0.338	-5.043	10.152	1.00	0.00
ATOM	1348	C	MET	84	3.199	-8.552	10.245	1.00	0.00
ATOM	1349	O	MET	84	3.457	-8.155	9.110	1.00	0.00
ATOM	1350	N	ARG	85	4.146	-8.767	11.159	1.00	0.00
ATOM	1351	H	ARG	85	3.918	-9.073	12.094	1.00	0.00
ATOM	1352	CA	ARG	85	5.553	-8.535	10.829	1.00	0.00
ATOM	1353	HA	ARG	85	5.728	-7.470	10.680	1.00	0.00
ATOM	1354	CB	ARG	85	6.456	-9.024	11.967	1.00	0.00
ATOM	1355	HB2	ARG	85	6.225	-8.467	12.875	1.00	0.00
ATOM	1356	HB3	ARG	85	6.277	-10.086	12.138	1.00	0.00
ATOM	1357	CG	ARG	85	7.927	-8.808	11.597	1.00	0.00
ATOM	1358	HG2	ARG	85	8.182	-9.426	10.736	1.00	0.00
ATOM	1359	HG3	ARG	85	8.092	-7.759	11.353	1.00	0.00
ATOM	1360	CD	ARG	85	8.810	-9.200	12.784	1.00	0.00
ATOM	1361	HD2	ARG	85	9.849	-8.945	12.575	1.00	0.00
ATOM	1362	HD3	ARG	85	8.481	-8.676	13.682	1.00	0.00
ATOM	1363	NE	ARG	85	8.721	-10.639	13.023	1.00	0.00
ATOM	1364	HE	ARG	85	8.734	-11.279	12.242	1.00	0.00
ATOM	1365	CZ	ARG	85	8.618	-11.141	14.254	1.00	0.00

ATOM	1366	NH1	ARG	85	8.607	-10.351	15.295	1.00	0.00
ATOM	1367	HH11	ARG	85	8.677	-9.352	15.168	1.00	0.00
ATOM	1368	HH12	ARG	85	8.529	-10.744	16.223	1.00	0.00
ATOM	1369	NH2	ARG	85	8.532	-12.432	14.421	1.00	0.00
ATOM	1370	HH21	ARG	85	8.544	-13.044	13.618	1.00	0.00
ATOM	1371	HH22	ARG	85	8.454	-12.814	15.353	1.00	0.00
ATOM	1372	C	ARG	85	5.909	-9.265	9.537	1.00	0.00
ATOM	1373	O	ARG	85	6.533	-8.694	8.643	1.00	0.00
ATOM	1374	N	ARG	86	5.482	-10.521	9.439	1.00	0.00
ATOM	1375	H	ARG	86	4.989	-10.956	10.206	1.00	0.00
ATOM	1376	CA	ARG	86	5.733	-11.313	8.241	1.00	0.00
ATOM	1377	HA	ARG	86	6.805	-11.382	8.055	1.00	0.00
ATOM	1378	CB	ARG	86	5.177	-12.727	8.428	1.00	0.00
ATOM	1379	HB2	ARG	86	4.113	-12.673	8.656	1.00	0.00
ATOM	1380	HB3	ARG	86	5.324	-13.300	7.513	1.00	0.00
ATOM	1381	CG	ARG	86	5.912	-13.414	9.583	1.00	0.00
ATOM	1382	HG2	ARG	86	6.981	-13.432	9.370	1.00	0.00
ATOM	1383	HG3	ARG	86	5.735	-12.859	10.504	1.00	0.00
ATOM	1384	CD	ARG	86	5.401	-14.846	9.746	1.00	0.00
ATOM	1385	HD2	ARG	86	4.313	-14.848	9.800	1.00	0.00
ATOM	1386	HD3	ARG	86	5.724	-15.454	8.901	1.00	0.00
ATOM	1387	NE	ARG	86	5.931	-15.433	10.973	1.00	0.00

ATOM	1388	HE	ARG	86	6.659	-14.957	11.487	1.00	0.00
ATOM	1389	CZ	ARG	86	5.475	-16.592	11.443	1.00	0.00
ATOM	1390	NH1	ARG	86	4.538	-17.239	10.803	1.00	0.00
ATOM	1391	HH11	ARG	86	4.159	-16.858	9.948	1.00	0.00
ATOM	1392	HH12	ARG	86	4.198	-18.118	11.166	1.00	0.00
ATOM	1393	NH2	ARG	86	5.968	-17.085	12.545	1.00	0.00
ATOM	1394	HH21	ARG	86	6.695	-16.585	13.038	1.00	0.00
ATOM	1395	HH22	ARG	86	5.622	-17.965	12.901	1.00	0.00
ATOM	1396	C	ARG	86	5.077	-10.650	7.031	1.00	0.00
ATOM	1397	O	ARG	86	5.631	-10.642	5.931	1.00	0.00
ATOM	1398	N	MET	87	3.885	-10.094	7.259	1.00	0.00
ATOM	1399	H	MET	87	3.477	-10.146	8.182	1.00	0.00
ATOM	1400	CA	MET	87	3.130	-9.421	6.204	1.00	0.00
ATOM	1401	HA	MET	87	2.854	-10.136	5.429	1.00	0.00
ATOM	1402	CB	MET	87	1.850	-8.809	6.784	1.00	0.00
ATOM	1403	HB2	MET	87	1.327	-9.561	7.375	1.00	0.00
ATOM	1404	HB3	MET	87	2.111	-7.964	7.421	1.00	0.00
ATOM	1405	CG	MET	87	0.942	-8.331	5.646	1.00	0.00
ATOM	1406	HG2	MET	87	1.550	-7.919	4.841	1.00	0.00
ATOM	1407	HG3	MET	87	0.358	-9.170	5.267	1.00	0.00
ATOM	1408	SD	MET	87	-0.183	-7.050	6.259	1.00	0.00
ATOM	1409	CE	MET	87	-1.218	-8.105	7.302	1.00	0.00

ATOM	1410	HE1	MET	87	-0.601	-8.578	8.067	1.00	0.00
ATOM	1411	HE2	MET	87	-1.988	-7.500	7.781	1.00	0.00
ATOM	1412	HE3	MET	87	-1.688	-8.874	6.689	1.00	0.00
ATOM	1413	C	MET	87	3.955	-8.316	5.549	1.00	0.00
ATOM	1414	O	MET	87	3.766	-8.013	4.373	1.00	0.00
ATOM	1415	N	MET	88	4.853	-7.700	6.318	1.00	0.00
ATOM	1416	H	MET	88	4.976	-7.969	7.284	1.00	0.00
ATOM	1417	CA	MET	88	5.673	-6.612	5.793	1.00	0.00
ATOM	1418	HA	MET	88	5.067	-5.720	5.639	1.00	0.00
ATOM	1419	CB	MET	88	6.779	-6.284	6.796	1.00	0.00
ATOM	1420	HB2	MET	88	7.331	-7.193	7.037	1.00	0.00
ATOM	1421	HB3	MET	88	7.459	-5.553	6.359	1.00	0.00
ATOM	1422	CG	MET	88	6.162	-5.707	8.076	1.00	0.00
ATOM	1423	HG2	MET	88	5.862	-4.673	7.906	1.00	0.00
ATOM	1424	HG3	MET	88	5.290	-6.296	8.362	1.00	0.00
ATOM	1425	SD	MET	88	7.381	-5.761	9.414	1.00	0.00
ATOM	1426	CE	MET	88	8.810	-5.211	8.452	1.00	0.00
ATOM	1427	HE1	MET	88	8.615	-4.219	8.045	1.00	0.00
ATOM	1428	HE2	MET	88	9.689	-5.172	9.096	1.00	0.00
ATOM	1429	HE3	MET	88	8.990	-5.910	7.635	1.00	0.00
ATOM	1430	C	MET	88	6.299	-6.999	4.458	1.00	0.00
ATOM	1431	O	MET	88	6.160	-6.279	3.469	1.00	0.00



ATOM	1432	N	ARG	89	6.970	-8.146	4.429	1.00	0.00
ATOM	1433	H	ARG	89	7.081	-8.702	5.265	1.00	0.00
ATOM	1434	CA	ARG	89	7.590	-8.619	3.198	1.00	0.00
ATOM	1435	HA	ARG	89	8.314	-7.887	2.839	1.00	0.00
ATOM	1436	CB	ARG	89	8.318	-9.943	3.452	1.00	0.00
ATOM	1437	HB2	ARG	89	7.613	-10.674	3.848	1.00	0.00
ATOM	1438	HB3	ARG	89	8.736	-10.312	2.516	1.00	0.00
ATOM	1439	CG	ARG	89	9.449	-9.724	4.465	1.00	0.00
ATOM	1440	HG2	ARG	89	9.057	-9.202	5.338	1.00	0.00
ATOM	1441	HG3	ARG	89	9.853	-10.689	4.771	1.00	0.00
ATOM	1442	CD	ARG	89	10.560	-8.885	3.825	1.00	0.00
ATOM	1443	HD2	ARG	89	10.911	-9.370	2.914	1.00	0.00
ATOM	1444	HD3	ARG	89	10.181	-7.892	3.585	1.00	0.00
ATOM	1445	NE	ARG	89	11.685	-8.746	4.744	1.00	0.00
ATOM	1446	HE	ARG	89	12.495	-9.342	4.646	1.00	0.00
ATOM	1447	CZ	ARG	89	11.676	-7.842	5.722	1.00	0.00
ATOM	1448	NH1	ARG	89	10.639	-7.065	5.889	1.00	0.00
ATOM	1449	HH11	ARG	89	9.843	-7.152	5.274	1.00	0.00
ATOM	1450	HH12	ARG	89	10.639	-6.382	6.633	1.00	0.00
ATOM	1451	NH2	ARG	89	12.704	-7.734	6.516	1.00	0.00
ATOM	1452	HH21	ARG	89	13.504	-8.337	6.387	1.00	0.00
ATOM	1453	HH22	ARG	89	12.696	-7.048	7.258	1.00	0.00

ATOM	1454	C	ARG	89	6.529	-8.806	2.116	1.00	0.00
ATOM	1455	O	ARG	89	6.721	-8.412	0.965	1.00	0.00
ATOM	1456	N	LEU	90	5.403	-9.401	2.507	1.00	0.00
ATOM	1457	H	LEU	90	5.305	-9.717	3.461	1.00	0.00
ATOM	1458	CA	LEU	90	4.299	-9.634	1.584	1.00	0.00
ATOM	1459	HA	LEU	90	4.633	-10.235	0.738	1.00	0.00
ATOM	1460	CB	LEU	90	3.180	-10.390	2.310	1.00	0.00
ATOM	1461	HB2	LEU	90	3.597	-11.267	2.806	1.00	0.00
ATOM	1462	HB3	LEU	90	2.735	-9.730	3.055	1.00	0.00
ATOM	1463	CG	LEU	90	2.104	-10.831	1.309	1.00	0.00
ATOM	1464	HG	LEU	90	2.562	-11.005	0.336	1.00	0.00
ATOM	1465	CD1	LEU	90	1.448	-12.124	1.802	1.00	0.00
ATOM	1466	HD11	LEU	90	0.990	-11.951	2.776	1.00	0.00
ATOM	1467	HD12	LEU	90	0.684	-12.438	1.092	1.00	0.00
ATOM	1468	HD13	LEU	90	2.204	-12.905	1.891	1.00	0.00
ATOM	1469	CD2	LEU	90	1.034	-9.739	1.190	1.00	0.00
ATOM	1470	HD21	LEU	90	1.495	-8.815	0.843	1.00	0.00
ATOM	1471	HD22	LEU	90	0.271	-10.054	0.479	1.00	0.00
ATOM	1472	HD23	LEU	90	0.575	-9.572	2.165	1.00	0.00
ATOM	1473	C	LEU	90	3.764	-8.311	1.046	1.00	0.00
ATOM	1474	O	LEU	90	3.439	-8.195	-0.136	1.00	0.00
ATOM	1475	N	ALA	91	3.669	-7.320	1.929	1.00	0.00

ATOM	1476	H	ALA	91	3.930	-7.470	2.894	1.00	0.00
ATOM	1477	CA	ALA	91	3.164	-6.008	1.545	1.00	0.00
ATOM	1478	HA	ALA	91	2.124	-6.083	1.228	1.00	0.00
ATOM	1479	CB	ALA	91	3.245	-5.048	2.735	1.00	0.00
ATOM	1480	HB1	ALA	91	4.282	-4.956	3.059	1.00	0.00
ATOM	1481	HB2	ALA	91	2.870	-4.069	2.439	1.00	0.00
ATOM	1482	HB3	ALA	91	2.642	-5.435	3.557	1.00	0.00
ATOM	1483	C	ALA	91	3.966	-5.449	0.378	1.00	0.00
ATOM	1484	O	ALA	91	3.399	-5.046	-0.631	1.00	0.00
ATOM	1485	N	GLU	92	5.288	-5.437	0.526	1.00	0.00
ATOM	1486	H	GLU	92	5.701	-5.758	1.390	1.00	0.00
ATOM	1487	CA	GLU	92	6.176	-4.937	-0.523	1.00	0.00
ATOM	1488	HA	GLU	92	5.941	-3.898	-0.752	1.00	0.00
ATOM	1489	CB	GLU	92	7.630	-5.016	-0.049	1.00	0.00
ATOM	1490	HB2	GLU	92	7.723	-4.514	0.914	1.00	0.00
ATOM	1491	HB3	GLU	92	7.919	-6.062	0.058	1.00	0.00
ATOM	1492	CG	GLU	92	8.549	-4.334	-1.072	1.00	0.00
ATOM	1493	HG2	GLU	92	8.397	-4.797	-2.047	1.00	0.00
ATOM	1494	HG3	GLU	92	8.290	-3.277	-1.127	1.00	0.00
ATOM	1495	CD	GLU	92	10.016	-4.478	-0.663	1.00	0.00
ATOM	1496	OE1	GLU	92	10.279	-5.114	0.348	1.00	0.00
ATOM	1497	OE2	GLU	92	10.858	-3.950	-1.369	1.00	0.00

ATOM	1498	C	GLU	92	6.008	-5.739	-1.813	1.00	0.00
ATOM	1499	O	GLU	92	6.201	-5.212	-2.908	1.00	0.00
ATOM	1500	N	ASN	93	5.664	-7.017	-1.674	1.00	0.00
ATOM	1501	H	ASN	93	5.539	-7.416	-0.754	1.00	0.00
ATOM	1502	CA	ASN	93	5.492	-7.888	-2.837	1.00	0.00
ATOM	1503	HA	ASN	93	6.354	-7.802	-3.499	1.00	0.00
ATOM	1504	CB	ASN	93	5.365	-9.347	-2.385	1.00	0.00
ATOM	1505	HB2	ASN	93	4.543	-9.445	-1.676	1.00	0.00
ATOM	1506	HB3	ASN	93	5.180	-9.989	-3.246	1.00	0.00
ATOM	1507	CG	ASN	93	6.654	-9.805	-1.703	1.00	0.00
ATOM	1508	OD1	ASN	93	7.669	-8.989	-1.615	1.00	0.00
ATOM	1509	ND2	ASN	93	6.736	-10.942	-1.238	1.00	0.00
ATOM	1510	HD21	ASN	93	7.590	-11.240	-0.788	1.00	0.00
ATOM	1511	HD22	ASN	93	5.949	-11.571	-1.308	1.00	0.00
ATOM	1512	C	ASN	93	4.257	-7.498	-3.650	1.00	0.00
ATOM	1513	O	ASN	93	4.258	-7.611	-4.876	1.00	0.00
ATOM	1514	N	ILE	94	3.205	-7.046	-2.967	1.00	0.00
ATOM	1515	H	ILE	94	3.227	-7.004	-1.958	1.00	0.00
ATOM	1516	CA	ILE	94	1.973	-6.654	-3.651	1.00	0.00
ATOM	1517	HA	ILE	94	1.524	-7.533	-4.114	1.00	0.00
ATOM	1518	CB	ILE	94	0.985	-6.044	-2.644	1.00	0.00
ATOM	1519	HB	ILE	94	1.533	-5.416	-1.941	1.00	0.00

ATOM	1520	CG2 ILE	94	-0.063	-5.197	-3.377	1.00	0.00
ATOM	1521	HG21 ILE	94	-0.611	-5.825	-4.079	1.00	0.00
ATOM	1522	HG22 ILE	94	-0.757	-4.771	-2.653	1.00	0.00
ATOM	1523	HG23 ILE	94	0.434	-4.394	-3.920	1.00	0.00
ATOM	1524	CG1 ILE	94	0.281	-7.175	-1.882	1.00	0.00
ATOM	1525	HG12 ILE	94	-0.507	-7.596	-2.506	1.00	0.00
ATOM	1526	HG13 ILE	94	1.006	-7.953	-1.638	1.00	0.00
ATOM	1527	CD1 ILE	94	-0.331	-6.625	-0.590	1.00	0.00
ATOM	1528	HD11 ILE	94	-1.055	-5.848	-0.832	1.00	0.00
ATOM	1529	HD12 ILE	94	-0.830	-7.431	-0.052	1.00	0.00
ATOM	1530	HD13 ILE	94	0.457	-6.205	0.036	1.00	0.00
ATOM	1531	C ILE	94	2.269	-5.663	-4.785	1.00	0.00
ATOM	1532	O ILE	94	1.916	-5.913	-5.937	1.00	0.00
ATOM	1533	N PRO	95	2.909	-4.558	-4.489	1.00	0.00
ATOM	1534	CD PRO	95	3.365	-4.162	-3.148	1.00	0.00
ATOM	1535	HD2 PRO	95	3.936	-4.981	-2.710	1.00	0.00
ATOM	1536	HD3 PRO	95	2.496	-3.952	-2.524	1.00	0.00
ATOM	1537	CG PRO	95	4.217	-2.921	-3.396	1.00	0.00
ATOM	1538	HG2 PRO	95	5.267	-3.210	-3.457	1.00	0.00
ATOM	1539	HG3 PRO	95	4.082	-2.219	-2.573	1.00	0.00
ATOM	1540	CB PRO	95	3.738	-2.336	-4.678	1.00	0.00
ATOM	1541	HB2 PRO	95	4.568	-1.842	-5.182	1.00	0.00

ATOM	1542	HB3	PRO	95	2.923	-1.627	-4.539	1.00	0.00
ATOM	1543	CA	PRO	95	3.258	-3.527	-5.511	1.00	0.00
ATOM	1544	HA	PRO	95	2.355	-3.299	-6.077	1.00	0.00
ATOM	1545	C	PRO	95	4.356	-3.991	-6.470	1.00	0.00
ATOM	1546	O	PRO	95	4.451	-3.496	-7.589	1.00	0.00
ATOM	1547	N	SER	96	5.175	-4.951	-6.030	1.00	0.00
ATOM	1548	H	SER	96	5.069	-5.325	-5.098	1.00	0.00
ATOM	1549	CA	SER	96	6.250	-5.477	-6.870	1.00	0.00
ATOM	1550	HA	SER	96	6.911	-4.665	-7.173	1.00	0.00
ATOM	1551	CB	SER	96	7.072	-6.517	-6.106	1.00	0.00
ATOM	1552	HB2	SER	96	6.431	-7.352	-5.822	1.00	0.00
ATOM	1553	HB3	SER	96	7.881	-6.880	-6.740	1.00	0.00
ATOM	1554	OG	SER	96	7.617	-5.921	-4.938	1.00	0.00
ATOM	1555	HG	SER	96	8.133	-6.573	-4.457	1.00	0.00
ATOM	1556	C	SER	96	5.637	-6.107	-8.093	1.00	0.00
ATOM	1557	O	SER	96	6.113	-5.957	-9.219	1.00	0.00
ATOM	1558	N	ARG	97	4.556	-6.806	-7.824	1.00	0.00
ATOM	1559	H	ARG	97	4.255	-6.885	-6.863	1.00	0.00
ATOM	1560	CA	ARG	97	3.794	-7.489	-8.836	1.00	0.00
ATOM	1561	HA	ARG	97	4.386	-8.270	-9.314	1.00	0.00
ATOM	1562	CB	ARG	97	2.595	-8.136	-8.155	1.00	0.00
ATOM	1563	HB2	ARG	97	2.136	-7.420	-7.474	1.00	0.00

ATOM	1564	HB3	ARG	97	1.869	-8.435	-8.910	1.00	0.00
ATOM	1565	CG	ARG	97	3.050	-9.370	-7.367	1.00	0.00
ATOM	1566	HG2	ARG	97	3.589	-10.045	-8.032	1.00	0.00
ATOM	1567	HG3	ARG	97	3.709	-9.058	-6.556	1.00	0.00
ATOM	1568	CD	ARG	97	1.833	-10.093	-6.785	1.00	0.00
ATOM	1569	HD2	ARG	97	1.194	-10.450	-7.593	1.00	0.00
ATOM	1570	HD3	ARG	97	2.160	-10.939	-6.180	1.00	0.00
ATOM	1571	NE	ARG	97	1.058	-9.186	-5.941	1.00	0.00
ATOM	1572	HE	ARG	97	1.325	-9.046	-4.977	1.00	0.00
ATOM	1573	CZ	ARG	97	-0.003	-8.530	-6.409	1.00	0.00
ATOM	1574	NH1	ARG	97	-0.389	-8.691	-7.647	1.00	0.00
ATOM	1575	HH11	ARG	97	0.121	-9.317	-8.254	1.00	0.00
ATOM	1576	HH12	ARG	97	-1.194	-8.189	-7.991	1.00	0.00
ATOM	1577	NH2	ARG	97	-0.660	-7.721	-5.626	1.00	0.00
ATOM	1578	HH21	ARG	97	-0.361	-7.596	-4.669	1.00	0.00
ATOM	1579	HH22	ARG	97	-1.464	-7.223	-5.979	1.00	0.00
ATOM	1580	C	ARG	97	3.329	-6.532	-9.933	1.00	0.00
ATOM	1581	O	ARG	97	3.273	-6.906	-11.105	1.00	0.00
ATOM	1582	N	CYX	98	3.006	-5.297	-9.550	1.00	0.00
ATOM	1583	H	CYX	98	3.070	-5.029	-8.578	1.00	0.00
ATOM	1584	CA	CYX	98	2.559	-4.302	-10.512	1.00	0.00
ATOM	1585	HA	CYX	98	2.244	-4.800	-11.429	1.00	0.00

ATOM	1586	CB	CYX	98	1.383	-3.495	-9.965	1.00	0.00
ATOM	1587	HB2	CYX	98	1.749	-2.558	-9.545	1.00	0.00
ATOM	1588	HB3	CYX	98	0.682	-3.282	-10.771	1.00	0.00
ATOM	1589	SG	CYX	98	0.554	-4.429	-8.652	1.00	0.00
ATOM	1590	C	CYX	98	3.679	-3.343	-10.826	1.00	0.00
ATOM	1591	O	CYX	98	3.562	-2.527	-11.740	1.00	0.00
ATOM	1592	N	ASN	99	4.752	-3.409	-10.044	1.00	0.00
ATOM	1593	H	ASN	99	4.801	-4.040	-9.256	1.00	0.00
ATOM	1594	CA	ASN	99	5.847	-2.492	-10.255	1.00	0.00
ATOM	1595	HA	ASN	99	5.466	-1.478	-10.135	1.00	0.00
ATOM	1596	CB	ASN	99	7.004	-2.687	-9.306	1.00	0.00
ATOM	1597	HB2	ASN	99	7.139	-3.744	-9.077	1.00	0.00
ATOM	1598	HB3	ASN	99	7.919	-2.292	-9.748	1.00	0.00
ATOM	1599	CG	ASN	99	6.728	-1.939	-8.007	1.00	0.00
ATOM	1600	OD1	ASN	99	7.024	-2.436	-6.921	1.00	0.00
ATOM	1601	ND2	ASN	99	6.178	-0.755	-8.062	1.00	0.00
ATOM	1602	HD21	ASN	99	5.990	-0.249	-7.208	1.00	0.00
ATOM	1603	HD22	ASN	99	5.944	-0.352	-8.957	1.00	0.00
ATOM	1604	C	ASN	99	6.343	-2.553	-11.666	1.00	0.00
ATOM	1605	O	ASN	99	6.171	-3.539	-12.386	1.00	0.00
ATOM	1606	N	LEU	100	6.872	-1.428	-12.061	1.00	0.00
ATOM	1607	H	LEU	100	6.974	-0.669	-11.402	1.00	0.00



ATOM	1608	CA	LEU	100	7.319	-1.223	-13.413	1.00	0.00
ATOM	1609	HA	LEU	100	7.647	-2.153	-13.877	1.00	0.00
ATOM	1610	CB	LEU	100	6.109	-0.688	-14.188	1.00	0.00
ATOM	1611	HB2	LEU	100	6.425	0.182	-14.763	1.00	0.00
ATOM	1612	HB3	LEU	100	5.710	-1.445	-14.863	1.00	0.00
ATOM	1613	CG	LEU	100	5.009	-0.267	-13.175	1.00	0.00
ATOM	1614	HG	LEU	100	5.010	-0.960	-12.333	1.00	0.00
ATOM	1615	CD1	LEU	100	5.284	1.149	-12.669	1.00	0.00
ATOM	1616	HD11	LEU	100	5.283	1.842	-13.510	1.00	0.00
ATOM	1617	HD12	LEU	100	4.510	1.438	-11.959	1.00	0.00
ATOM	1618	HD13	LEU	100	6.256	1.177	-12.176	1.00	0.00
ATOM	1619	CD2	LEU	100	3.638	-0.334	-13.831	1.00	0.00
ATOM	1620	HD21	LEU	100	3.444	-1.354	-14.165	1.00	0.00
ATOM	1621	HD22	LEU	100	2.876	-0.037	-13.111	1.00	0.00
ATOM	1622	HD23	LEU	100	3.611	0.340	-14.687	1.00	0.00
ATOM	1623	C	LEU	100	8.468	-0.220	-13.443	1.00	0.00
ATOM	1624	O	LEU	100	8.442	0.774	-12.720	1.00	0.00
ATOM	1625	N	SER	101	9.472	-0.501	-14.277	1.00	0.00
ATOM	1626	H	SER	101	9.438	-1.345	-14.831	1.00	0.00
ATOM	1627	CA	SER	101	10.648	0.365	-14.402	1.00	0.00
ATOM	1628	HA	SER	101	11.385	0.112	-13.639	1.00	0.00
ATOM	1629	CB	SER	101	11.285	0.173	-15.780	1.00	0.00

ATOM	1630	HB2	SER	101	11.572	-0.871	-15.907	1.00	0.00
ATOM	1631	HB3	SER	101	10.570	0.450	-16.554	1.00	0.00
ATOM	1632	OG	SER	101	12.439	0.997	-15.884	1.00	0.00
ATOM	1633	HG	SER	101	12.841	0.878	-16.748	1.00	0.00
ATOM	1634	C	SER	101	10.271	1.834	-14.214	1.00	0.00
ATOM	1635	O	SER	101	9.822	2.498	-15.149	1.00	0.00
ATOM	1636	N	PRO	102	10.442	2.343	-13.019	1.00	0.00
ATOM	1637	CD	PRO	102	10.956	1.637	-11.849	1.00	0.00
ATOM	1638	HD2	PRO	102	12.031	1.795	-11.755	1.00	0.00
ATOM	1639	HD3	PRO	102	10.753	0.569	-11.934	1.00	0.00
ATOM	1640	CG	PRO	102	10.169	2.289	-10.724	1.00	0.00
ATOM	1641	HG2	PRO	102	10.752	2.241	-9.804	1.00	0.00
ATOM	1642	HG3	PRO	102	9.229	1.754	-10.586	1.00	0.00
ATOM	1643	CB	PRO	102	9.921	3.711	-11.144	1.00	0.00
ATOM	1644	HB2	PRO	102	10.664	4.343	-10.657	1.00	0.00
ATOM	1645	HB3	PRO	102	8.922	4.063	-10.889	1.00	0.00
ATOM	1646	CA	PRO	102	10.119	3.751	-12.673	1.00	0.00
ATOM	1647	HA	PRO	102	9.208	4.033	-13.200	1.00	0.00
ATOM	1648	C	PRO	102	11.246	4.703	-13.061	1.00	0.00
ATOM	1649	O	PRO	102	12.364	4.591	-12.554	1.00	0.00
ATOM	1650	N	MET	103	10.950	5.635	-13.963	1.00	0.00
ATOM	1651	H	MET	103	10.027	5.686	-14.370	1.00	0.00

ATOM	1652	CA	MET	103	11.955	6.592	-14.407	1.00	0.00
ATOM	1653	HA	MET	103	12.860	6.068	-14.715	1.00	0.00
ATOM	1654	CB	MET	103	11.422	7.393	-15.600	1.00	0.00
ATOM	1655	HB2	MET	103	10.496	7.891	-15.315	1.00	0.00
ATOM	1656	HB3	MET	103	12.161	8.139	-15.892	1.00	0.00
ATOM	1657	CG	MET	103	11.153	6.451	-16.779	1.00	0.00
ATOM	1658	HG2	MET	103	10.366	5.746	-16.511	1.00	0.00
ATOM	1659	HG3	MET	103	10.840	7.031	-17.646	1.00	0.00
ATOM	1660	SD	MET	103	12.660	5.534	-17.189	1.00	0.00
ATOM	1661	CE	MET	103	13.676	6.951	-17.676	1.00	0.00
ATOM	1662	HE1	MET	103	13.769	7.638	-16.835	1.00	0.00
ATOM	1663	HE2	MET	103	14.666	6.604	-17.972	1.00	0.00
ATOM	1664	HE3	MET	103	13.206	7.464	-18.514	1.00	0.00
ATOM	1665	C	MET	103	12.323	7.545	-13.275	1.00	0.00
ATOM	1666	O	MET	103	13.489	7.637	-12.886	1.00	0.00
ATOM	1667	N	ARG	104	11.322	8.245	-12.744	1.00	0.00
ATOM	1668	H	ARG	104	10.383	8.152	-13.103	1.00	0.00
ATOM	1669	CA	ARG	104	11.554	9.180	-11.647	1.00	0.00
ATOM	1670	HA	ARG	104	12.375	8.829	-11.022	1.00	0.00
ATOM	1671	CB	ARG	104	11.921	10.560	-12.209	1.00	0.00
ATOM	1672	HB2	ARG	104	11.621	10.612	-13.255	1.00	0.00
ATOM	1673	HB3	ARG	104	11.397	11.329	-11.642	1.00	0.00

ATOM	1674	CG	ARG	104	13.435	10.786	-12.099	1.00	0.00
ATOM	1675	HG2	ARG	104	13.957	9.970	-12.600	1.00	0.00
ATOM	1676	HG3	ARG	104	13.693	11.730	-12.578	1.00	0.00
ATOM	1677	CD	ARG	104	13.854	10.831	-10.624	1.00	0.00
ATOM	1678	HD2	ARG	104	14.029	9.818	-10.261	1.00	0.00
ATOM	1679	HD3	ARG	104	14.768	11.416	-10.519	1.00	0.00
ATOM	1680	NE	ARG	104	12.808	11.446	-9.810	1.00	0.00
ATOM	1681	HE	ARG	104	12.206	10.866	-9.243	1.00	0.00
ATOM	1682	CZ	ARG	104	12.620	12.764	-9.793	1.00	0.00
ATOM	1683	NH1	ARG	104	13.383	13.546	-10.509	1.00	0.00
ATOM	1684	HH11	ARG	104	14.118	13.148	-11.076	1.00	0.00
ATOM	1685	HH12	ARG	104	13.235	14.545	-10.491	1.00	0.00
ATOM	1686	NH2	ARG	104	11.673	13.275	-9.058	1.00	0.00
ATOM	1687	HH21	ARG	104	11.085	12.668	-8.504	1.00	0.00
ATOM	1688	HH22	ARG	104	11.532	14.275	-9.046	1.00	0.00
ATOM	1689	C	ARG	104	10.316	9.309	-10.761	1.00	0.00
ATOM	1690	O	ARG	104	9.191	9.366	-11.257	1.00	0.00
ATOM	1691	N	CYX	105	10.541	9.386	-9.450	1.00	0.00
ATOM	1692	H	CYX	105	11.483	9.318	-9.091	1.00	0.00
ATOM	1693	CA	CYX	105	9.447	9.546	-8.496	1.00	0.00
ATOM	1694	HA	CYX	105	8.494	9.374	-8.995	1.00	0.00
ATOM	1695	CB	CYX	105	9.586	8.542	-7.349	1.00	0.00

ATOM	1696	HB2	CYX	105	10.622	8.518	-7.010	1.00	0.00
ATOM	1697	HB3	CYX	105	8.941	8.841	-6.523	1.00	0.00
ATOM	1698	SG	CYX	105	9.127	6.888	-7.929	1.00	0.00
ATOM	1699	C	CYX	105	9.453	10.970	-7.938	1.00	0.00
ATOM	1700	O	CYX	105	10.362	11.342	-7.196	1.00	0.00
ATOM	1701	N	PRO	106	8.470	11.770	-8.280	1.00	0.00
ATOM	1702	CD	PRO	106	7.352	11.423	-9.169	1.00	0.00
ATOM	1703	HD2	PRO	106	6.660	10.770	-8.636	1.00	0.00
ATOM	1704	HD3	PRO	106	7.739	10.903	-10.045	1.00	0.00
ATOM	1705	CG	PRO	106	6.731	12.776	-9.520	1.00	0.00
ATOM	1706	HG2	PRO	106	5.652	12.657	-9.616	1.00	0.00
ATOM	1707	HG3	PRO	106	7.144	13.121	-10.468	1.00	0.00
ATOM	1708	CB	PRO	106	7.080	13.716	-8.413	1.00	0.00
ATOM	1709	HB2	PRO	106	6.286	13.719	-7.666	1.00	0.00
ATOM	1710	HB3	PRO	106	7.235	14.730	-8.782	1.00	0.00
ATOM	1711	CA	PRO	106	8.373	13.183	-7.795	1.00	0.00
ATOM	1712	HA	PRO	106	9.245	13.719	-8.169	1.00	0.00
ATOM	1713	C	PRO	106	8.320	13.297	-6.277	1.00	0.00
ATOM	1714	O	PRO	106	8.143	14.387	-5.736	1.00	0.00
ATOM	1715	N	MET	107	8.474	12.174	-5.599	1.00	0.00
ATOM	1716	H	MET	107	8.632	11.301	-6.082	1.00	0.00
ATOM	1717	CA	MET	107	8.442	12.161	-4.148	1.00	0.00

ATOM	1718	HA	MET	107	7.615	12.767	-3.778	1.00	0.00
ATOM	1719	CB	MET	107	8.250	10.743	-3.673	1.00	0.00
ATOM	1720	HB2	MET	107	8.856	10.077	-4.287	1.00	0.00
ATOM	1721	HB3	MET	107	8.571	10.669	-2.634	1.00	0.00
ATOM	1722	CG	MET	107	6.775	10.338	-3.782	1.00	0.00
ATOM	1723	HG2	MET	107	6.696	9.404	-4.339	1.00	0.00
ATOM	1724	HG3	MET	107	6.363	10.200	-2.782	1.00	0.00
ATOM	1725	SD	MET	107	5.834	11.627	-4.643	1.00	0.00
ATOM	1726	CE	MET	107	5.811	10.853	-6.277	1.00	0.00
ATOM	1727	HE1	MET	107	5.316	9.884	-6.214	1.00	0.00
ATOM	1728	HE2	MET	107	5.271	11.492	-6.975	1.00	0.00
ATOM	1729	HE3	MET	107	6.834	10.715	-6.628	1.00	0.00
ATOM	1730	C	MET	107	9.749	12.683	-3.597	1.00	0.00
ATOM	1731	O	MET	107	10.698	11.930	-3.370	1.00	0.00
ATOM	1732	N	GLY	108	9.783	13.979	-3.390	1.00	0.00
ATOM	1733	H	GLY	108	8.975	14.549	-3.595	1.00	0.00
ATOM	1734	CA	GLY	108	10.966	14.628	-2.867	1.00	0.00
ATOM	1735	HA2	GLY	108	10.702	15.624	-2.513	1.00	0.00
ATOM	1736	HA3	GLY	108	11.361	14.041	-2.037	1.00	0.00
ATOM	1737	C	GLY	108	12.040	14.752	-3.942	1.00	0.00
ATOM	1738	O	GLY	108	13.232	14.808	-3.638	1.00	0.00
ATOM	1739	N	GLY	109	11.603	14.801	-5.199	1.00	0.00

ATOM	1740	H	GLY	109	10.614	14.750	-5.396	1.00	0.00
ATOM	1741	CA	GLY	109	12.528	14.928	-6.322	1.00	0.00
ATOM	1742	HA2	GLY	109	11.973	14.819	-7.253	1.00	0.00
ATOM	1743	HA3	GLY	109	12.994	15.913	-6.289	1.00	0.00
ATOM	1744	C	GLY	109	13.619	13.861	-6.267	1.00	0.00
ATOM	1745	O	GLY	109	14.790	14.173	-6.046	1.00	0.00
ATOM	1746	N	SER	110	13.228	12.603	-6.471	1.00	0.00
ATOM	1747	H	SER	110	12.254	12.388	-6.627	1.00	0.00
ATOM	1748	CA	SER	110	14.186	11.498	-6.444	1.00	0.00
ATOM	1749	HA	SER	110	14.616	11.401	-5.447	1.00	0.00
ATOM	1750	CB	SER	110	13.486	10.188	-6.803	1.00	0.00
ATOM	1751	HB2	SER	110	13.122	10.238	-7.829	1.00	0.00
ATOM	1752	HB3	SER	110	14.189	9.360	-6.707	1.00	0.00
ATOM	1753	OG	SER	110	12.390	9.983	-5.920	1.00	0.00
ATOM	1754	HG	SER	110	11.949	9.160	-6.143	1.00	0.00
ATOM	1755	C	SER	110	15.329	11.759	-7.423	1.00	0.00
ATOM	1756	O	SER	110	15.172	12.510	-8.386	1.00	0.00
ATOM	1757	N	ILE	111	16.480	11.142	-7.168	1.00	0.00
ATOM	1758	H	ILE	111	16.578	10.553	-6.353	1.00	0.00
ATOM	1759	CA	ILE	111	17.643	11.326	-8.033	1.00	0.00
ATOM	1760	HA	ILE	111	17.553	12.275	-8.561	1.00	0.00
ATOM	1761	CB	ILE	111	18.925	11.330	-7.192	1.00	0.00

ATOM	1762	HB	ILE	111	19.021	10.376	-6.672	1.00	0.00
ATOM	1763	CG2	ILE	111	20.139	11.538	-8.105	1.00	0.00
ATOM	1764	HG21	ILE	111	20.045	12.491	-8.624	1.00	0.00
ATOM	1765	HG22	ILE	111	21.049	11.540	-7.505	1.00	0.00
ATOM	1766	HG23	ILE	111	20.188	10.730	-8.835	1.00	0.00
ATOM	1767	CG1	ILE	111	18.856	12.468	-6.165	1.00	0.00
ATOM	1768	HG12	ILE	111	18.885	13.426	-6.684	1.00	0.00
ATOM	1769	HG13	ILE	111	17.927	12.389	-5.600	1.00	0.00
ATOM	1770	CD1	ILE	111	20.046	12.371	-5.206	1.00	0.00
ATOM	1771	HD11	ILE	111	20.976	12.449	-5.770	1.00	0.00
ATOM	1772	HD12	ILE	111	19.994	13.180	-4.478	1.00	0.00
ATOM	1773	HD13	ILE	111	20.018	11.413	-4.686	1.00	0.00
ATOM	1774	C	ILE	111	17.712	10.221	-9.085	1.00	0.00
ATOM	1775	O	ILE	111	17.320	10.421	-10.236	1.00	0.00
ATOM	1776	N	ALA	112	18.187	9.048	-8.671	1.00	0.00
ATOM	1777	H	ALA	112	18.488	8.936	-7.713	1.00	0.00
ATOM	1778	CA	ALA	112	18.278	7.904	-9.559	1.00	0.00
ATOM	1779	HA	ALA	112	18.767	8.150	-10.501	1.00	0.00
ATOM	1780	CB	ALA	112	19.055	6.776	-8.887	1.00	0.00
ATOM	1781	HB1	ALA	112	18.572	6.512	-7.946	1.00	0.00
ATOM	1782	HB2	ALA	112	19.073	5.905	-9.542	1.00	0.00
ATOM	1783	HB3	ALA	112	20.076	7.103	-8.691	1.00	0.00



ATOM	1784	C	ALA	112	16.887	7.428	-9.868	1.00	0.00
ATOM	1785	O	ALA	112	15.911	8.106	-9.542	1.00	0.00
ATOM	1786	N	GLY	113	16.773	6.244	-10.441	1.00	0.00
ATOM	1787	H	GLY	113	17.562	5.675	-10.714	1.00	0.00
ATOM	1788	CA	GLY	113	15.454	5.740	-10.687	1.00	0.00
ATOM	1789	HA2	GLY	113	14.800	6.525	-11.064	1.00	0.00
ATOM	1790	HA3	GLY	113	15.478	4.914	-11.398	1.00	0.00
ATOM	1791	C	GLY	113	14.909	5.237	-9.366	1.00	0.00
ATOM	1792	O	GLY	113	15.198	4.118	-8.940	1.00	0.00
ATOM	1793	N	PHE	114	14.149	6.104	-8.714	1.00	0.00
ATOM	1794	H	PHE	114	13.974	7.013	-9.117	1.00	0.00
ATOM	1795	CA	PHE	114	13.572	5.804	-7.408	1.00	0.00
ATOM	1796	HA	PHE	114	14.319	5.942	-6.626	1.00	0.00
ATOM	1797	CB	PHE	114	12.397	6.745	-7.133	1.00	0.00
ATOM	1798	HB2	PHE	114	12.685	7.794	-7.203	1.00	0.00
ATOM	1799	HB3	PHE	114	11.556	6.554	-7.799	1.00	0.00
ATOM	1800	CG	PHE	114	11.891	6.529	-5.724	1.00	0.00
ATOM	1801	CD1	PHE	114	12.499	7.197	-4.653	1.00	0.00
ATOM	1802	HD1	PHE	114	13.337	7.870	-4.834	1.00	0.00
ATOM	1803	CE1	PHE	114	12.030	6.999	-3.349	1.00	0.00
ATOM	1804	HE1	PHE	114	12.503	7.519	-2.516	1.00	0.00
ATOM	1805	CZ	PHE	114	10.956	6.134	-3.114	1.00	0.00

ATOM	1806	HZ	PHE	114	10.593	5.980	-2.098	1.00	0.00
ATOM	1807	CE2	PHE	114	10.348	5.466	-4.184	1.00	0.00
ATOM	1808	HE2	PHE	114	9.512	4.792	-4.001	1.00	0.00
ATOM	1809	CD2	PHE	114	10.815	5.664	-5.489	1.00	0.00
ATOM	1810	HD2	PHE	114	10.341	5.145	-6.322	1.00	0.00
ATOM	1811	C	PHE	114	13.092	4.353	-7.335	1.00	0.00
ATOM	1812	O	PHE	114	13.493	3.664	-6.412	1.00	0.00
ATOM	1813	OXT	PHE	114	12.330	3.955	-8.202	1.00	0.00

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ATOM	1814	S1	LIG	115	16.890	-18.302	-2.528	1.00	0.00
ATOM	1815	O1	LIG	115	18.914	-22.094	-0.901	1.00	0.00
ATOM	1816	O2	LIG	115	15.495	-17.709	-3.149	1.00	0.00
ATOM	1817	O3	LIG	115	17.365	-17.901	-1.022	1.00	0.00
ATOM	1818	N1	LIG	115	16.519	-20.122	-2.600	1.00	0.00
ATOM	1819	H1	LIG	115	15.512	-20.217	-2.695	1.00	0.00
ATOM	1820	N2	LIG	115	18.552	-20.934	-1.711	1.00	0.00
ATOM	1821	N3	LIG	115	21.298	-17.259	-6.461	1.00	0.00
ATOM	1822	H10	LIG	115	21.101	-16.855	-7.360	1.00	0.00
ATOM	1823	H11	LIG	115	22.257	-17.470	-6.241	1.00	0.00
ATOM	1824	C1	LIG	115	18.261	-18.021	-3.736	1.00	0.00
ATOM	1825	C2	LIG	115	17.926	-17.461	-4.968	1.00	0.00
ATOM	1826	H2	LIG	115	16.893	-17.224	-5.193	1.00	0.00

ATOM	1827	C3	LIG	115	19.571	-18.335	-3.377	1.00	0.00
ATOM	1828	H3	LIG	115	19.788	-18.794	-2.420	1.00	0.00
ATOM	1829	C4	LIG	115	17.230	-21.052	-1.865	1.00	0.00
ATOM	1830	C5	LIG	115	20.290	-17.512	-5.559	1.00	0.00
ATOM	1831	C6	LIG	115	18.945	-17.206	-5.880	1.00	0.00
ATOM	1832	H4	LIG	115	18.709	-16.767	-6.843	1.00	0.00
ATOM	1833	C7	LIG	115	20.584	-18.081	-4.295	1.00	0.00
ATOM	1834	H5	LIG	115	21.611	-18.324	-4.042	1.00	0.00
ATOM	1835	C8	LIG	115	16.699	-22.224	-1.225	1.00	0.00
ATOM	1836	H6	LIG	115	15.669	-22.539	-1.202	1.00	0.00
ATOM	1837	C9	LIG	115	17.775	-22.838	-0.652	1.00	0.00
ATOM	1838	C10	LIG	115	17.945	-24.073	0.158	1.00	0.00
ATOM	1839	H7	LIG	115	16.983	-24.571	0.299	1.00	0.00
ATOM	1840	H8	LIG	115	18.632	-24.771	-0.334	1.00	0.00
ATOM	1841	H9	LIG	115	18.364	-23.837	1.142	1.00	0.00
TER									
ATOM	1842	S1	LIG	116	-20.788	19.378	3.383	1.00	0.00
ATOM	1843	O1	LIG	116	-19.212	22.496	6.368	1.00	0.00
ATOM	1844	O2	LIG	116	-22.137	18.613	2.857	1.00	0.00
ATOM	1845	O3	LIG	116	-20.054	20.500	2.457	1.00	0.00
ATOM	1846	N1	LIG	116	-21.458	20.179	4.920	1.00	0.00
ATOM	1847	H1	LIG	116	-22.471	20.184	4.836	1.00	0.00

ATOM	1848	N2	LIG	116	-19.485	21.255	5.649	1.00	0.00
ATOM	1849	N3	LIG	116	-16.839	15.225	5.158	1.00	0.00
ATOM	1850	H10	LIG	116	-17.086	14.250	5.169	1.00	0.00
ATOM	1851	H11	LIG	116	-15.907	15.476	5.442	1.00	0.00
ATOM	1852	C1	LIG	116	-19.564	18.120	3.965	1.00	0.00
ATOM	1853	C2	LIG	116	-19.966	16.785	3.963	1.00	0.00
ATOM	1854	H2	LIG	116	-20.967	16.520	3.643	1.00	0.00
ATOM	1855	C3	LIG	116	-18.287	18.527	4.349	1.00	0.00
ATOM	1856	H3	LIG	116	-18.022	19.576	4.364	1.00	0.00
ATOM	1857	C4	LIG	116	-20.817	21.232	5.545	1.00	0.00
ATOM	1858	C5	LIG	116	-17.743	16.184	4.763	1.00	0.00
ATOM	1859	C6	LIG	116	-19.051	15.816	4.362	1.00	0.00
ATOM	1860	H4	LIG	116	-19.340	14.770	4.364	1.00	0.00
ATOM	1861	C7	LIG	116	-17.379	17.552	4.751	1.00	0.00
ATOM	1862	H5	LIG	116	-16.382	17.845	5.062	1.00	0.00
ATOM	1863	C8	LIG	116	-21.441	22.367	6.167	1.00	0.00
ATOM	1864	H6	LIG	116	-22.497	22.580	6.216	1.00	0.00
ATOM	1865	C9	LIG	116	-20.414	23.113	6.666	1.00	0.00
ATOM	1866	C10	LIG	116	-20.340	24.397	7.411	1.00	0.00
ATOM	1867	H7	LIG	116	-21.343	24.797	7.581	1.00	0.00
ATOM	1868	H8	LIG	116	-19.850	24.259	8.381	1.00	0.00
ATOM	1869	H9	LIG	116	-19.759	25.139	6.852	1.00	0.00

TER

ATOM	1870	S1	LIG	117	14.622	25.305	0.646	1.00	0.00
ATOM	1871	O1	LIG	117	18.776	27.268	0.770	1.00	0.00
ATOM	1872	O2	LIG	117	13.133	25.403	-0.027	1.00	0.00
ATOM	1873	O3	LIG	117	15.652	24.118	0.215	1.00	0.00
ATOM	1874	N1	LIG	117	15.314	26.949	0.122	1.00	0.00
ATOM	1875	H1	LIG	117	14.738	27.283	-0.646	1.00	0.00
ATOM	1876	N2	LIG	117	17.448	26.771	1.119	1.00	0.00
ATOM	1877	N3	LIG	117	14.013	25.487	6.611	1.00	0.00
ATOM	1878	H10	LIG	117	13.113	25.637	7.033	1.00	0.00
ATOM	1879	H11	LIG	117	14.802	25.358	7.222	1.00	0.00
ATOM	1880	C1	LIG	117	14.466	25.391	2.485	1.00	0.00
ATOM	1881	C2	LIG	117	13.192	25.604	3.012	1.00	0.00
ATOM	1882	H2	LIG	117	12.345	25.729	2.348	1.00	0.00
ATOM	1883	C3	LIG	117	15.594	25.207	3.283	1.00	0.00
ATOM	1884	H3	LIG	117	16.571	25.070	2.836	1.00	0.00
ATOM	1885	C4	LIG	117	16.669	27.219	0.130	1.00	0.00
ATOM	1886	C5	LIG	117	14.162	25.456	5.243	1.00	0.00
ATOM	1887	C6	LIG	117	13.043	25.635	4.395	1.00	0.00
ATOM	1888	H4	LIG	117	12.060	25.796	4.827	1.00	0.00
ATOM	1889	C7	LIG	117	15.437	25.243	4.664	1.00	0.00
ATOM	1890	H5	LIG	117	16.302	25.110	5.306	1.00	0.00

ATOM	1891	C8	LIG	117	17.394	27.995	-0.839	1.00	0.00
ATOM	1892	H6	LIG	117	16.996	28.460	-1.726	1.00	0.00
ATOM	1893	C9	LIG	117	18.685	28.003	-0.398	1.00	0.00
ATOM	1894	C10	LIG	117	19.945	28.603	-0.911	1.00	0.00
ATOM	1895	H7	LIG	117	19.756	29.150	-1.838	1.00	0.00
ATOM	1896	H8	LIG	117	20.375	29.295	-0.179	1.00	0.00
ATOM	1897	H9	LIG	117	20.692	27.827	-1.109	1.00	0.00
TER									
ATOM	1898	S1	LIG	118	22.218	-10.003	21.044	1.00	0.00
ATOM	1899	O1	LIG	118	22.069	-5.554	22.191	1.00	0.00
ATOM	1900	O2	LIG	118	23.062	-11.392	21.239	1.00	0.00
ATOM	1901	O3	LIG	118	20.763	-9.808	21.751	1.00	0.00
ATOM	1902	N1	LIG	118	23.429	-8.792	21.767	1.00	0.00
ATOM	1903	H1	LIG	118	24.084	-9.327	22.330	1.00	0.00
ATOM	1904	N2	LIG	118	22.180	-6.811	21.454	1.00	0.00
ATOM	1905	N3	LIG	118	21.863	-8.822	15.172	1.00	0.00
ATOM	1906	H10	LIG	118	22.344	-9.396	14.501	1.00	0.00
ATOM	1907	H11	LIG	118	21.314	-8.054	14.825	1.00	0.00
ATOM	1908	C1	LIG	118	22.120	-9.599	19.242	1.00	0.00
ATOM	1909	C2	LIG	118	22.811	-10.428	18.360	1.00	0.00
ATOM	1910	H2	LIG	118	23.390	-11.262	18.741	1.00	0.00
ATOM	1911	C3	LIG	118	21.345	-8.520	18.819	1.00	0.00

ATOM	1912	H3	LIG	118	20.845	-7.882	19.537	1.00	0.00
ATOM	1913	C4	LIG	118	23.057	-7.523	22.169	1.00	0.00
ATOM	1914	C5	LIG	118	21.949	-9.080	16.522	1.00	0.00
ATOM	1915	C6	LIG	118	22.723	-10.167	16.997	1.00	0.00
ATOM	1916	H4	LIG	118	23.249	-10.802	16.291	1.00	0.00
ATOM	1917	C7	LIG	118	21.265	-8.263	17.454	1.00	0.00
ATOM	1918	H5	LIG	118	20.674	-7.424	17.100	1.00	0.00
ATOM	1919	C8	LIG	118	23.545	-6.811	23.318	1.00	0.00
ATOM	1920	H6	LIG	118	24.252	-7.168	24.049	1.00	0.00
ATOM	1921	C9	LIG	118	22.914	-5.602	23.285	1.00	0.00
ATOM	1922	C10	LIG	118	22.946	-4.399	24.158	1.00	0.00
ATOM	1923	H7	LIG	118	23.637	-4.552	24.991	1.00	0.00
ATOM	1924	H8	LIG	118	23.268	-3.516	23.596	1.00	0.00
ATOM	1925	H9	LIG	118	21.951	-4.187	24.564	1.00	0.00
TER									
ATOM	1926	S1	LIG	119	-23.009	18.754	-22.550	1.00	0.00
ATOM	1927	O1	LIG	119	-18.734	17.090	-22.274	1.00	0.00
ATOM	1928	O2	LIG	119	-23.933	19.919	-23.235	1.00	0.00
ATOM	1929	O3	LIG	119	-23.140	17.202	-23.029	1.00	0.00
ATOM	1930	N1	LIG	119	-21.320	19.398	-22.980	1.00	0.00
ATOM	1931	H1	LIG	119	-21.439	20.066	-23.737	1.00	0.00
ATOM	1932	N2	LIG	119	-20.024	17.701	-21.967	1.00	0.00

ATOM	1933	N3	LIG	119	-23.570	19.161	-16.591	1.00	0.00
ATOM	1934	H10	LIG	119	-24.102	19.905	-16.173	1.00	0.00
ATOM	1935	H11	LIG	119	-23.149	18.484	-15.978	1.00	0.00
ATOM	1936	C1	LIG	119	-23.140	18.877	-20.711	1.00	0.00
ATOM	1937	C2	LIG	119	-23.886	19.932	-20.189	1.00	0.00
ATOM	1938	H2	LIG	119	-24.349	20.651	-20.856	1.00	0.00
ATOM	1939	C3	LIG	119	-22.532	17.911	-19.910	1.00	0.00
ATOM	1940	H3	LIG	119	-21.938	17.120	-20.351	1.00	0.00
ATOM	1941	C4	LIG	119	-20.192	18.600	-22.942	1.00	0.00
ATOM	1942	C5	LIG	119	-23.428	19.068	-17.957	1.00	0.00
ATOM	1943	C6	LIG	119	-24.030	20.026	-18.809	1.00	0.00
ATOM	1944	H4	LIG	119	-24.610	20.836	-18.381	1.00	0.00
ATOM	1945	C7	LIG	119	-22.677	18.013	-18.530	1.00	0.00
ATOM	1946	H5	LIG	119	-22.207	17.277	-17.886	1.00	0.00
ATOM	1947	C8	LIG	119	-19.087	18.635	-23.860	1.00	0.00
ATOM	1948	H6	LIG	119	-18.984	19.267	-24.727	1.00	0.00
ATOM	1949	C9	LIG	119	-18.211	17.693	-23.404	1.00	0.00
ATOM	1950	C10	LIG	119	-16.886	17.206	-23.870	1.00	0.00
ATOM	1951	H7	LIG	119	-16.578	17.744	-24.770	1.00	0.00
ATOM	1952	H8	LIG	119	-16.123	17.351	-23.098	1.00	0.00
ATOM	1953	H9	LIG	119	-16.924	16.136	-24.099	1.00	0.00

TER



ATOM	1954	S1	LIG	120	-5.268	4.240	-19.785	1.00	0.00
ATOM	1955	O1	LIG	120	-7.237	8.361	-20.293	1.00	0.00
ATOM	1956	O2	LIG	120	-4.676	3.183	-18.683	1.00	0.00
ATOM	1957	O3	LIG	120	-6.668	3.935	-20.560	1.00	0.00
ATOM	1958	N1	LIG	120	-5.467	5.741	-18.708	1.00	0.00
ATOM	1959	H1	LIG	120	-5.460	5.419	-17.744	1.00	0.00
ATOM	1960	N2	LIG	120	-6.308	7.236	-20.333	1.00	0.00
ATOM	1961	N3	LIG	120	-0.921	5.484	-23.729	1.00	0.00
ATOM	1962	H10	LIG	120	0.007	5.120	-23.604	1.00	0.00
ATOM	1963	H11	LIG	120	-1.098	6.052	-24.540	1.00	0.00
ATOM	1964	C1	LIG	120	-3.937	4.665	-20.996	1.00	0.00
ATOM	1965	C2	LIG	120	-2.669	4.133	-20.768	1.00	0.00
ATOM	1966	H2	LIG	120	-2.489	3.512	-19.899	1.00	0.00
ATOM	1967	C3	LIG	120	-4.239	5.458	-22.102	1.00	0.00
ATOM	1968	H3	LIG	120	-5.231	5.875	-22.230	1.00	0.00
ATOM	1969	C4	LIG	120	-6.267	6.809	-19.068	1.00	0.00
ATOM	1970	C5	LIG	120	-1.920	5.212	-22.822	1.00	0.00
ATOM	1971	C6	LIG	120	-1.660	4.408	-21.685	1.00	0.00
ATOM	1972	H4	LIG	120	-0.666	4.002	-21.531	1.00	0.00
ATOM	1973	C7	LIG	120	-3.224	5.732	-23.012	1.00	0.00
ATOM	1974	H5	LIG	120	-3.433	6.354	-23.877	1.00	0.00
ATOM	1975	C8	LIG	120	-7.095	7.592	-18.192	1.00	0.00

ATOM	1976	H6	LIG	120	-7.236	7.449	-17.133	1.00	0.00
ATOM	1977	C9	LIG	120	-7.666	8.540	-18.990	1.00	0.00
ATOM	1978	C10	LIG	120	-8.620	9.654	-18.746	1.00	0.00
ATOM	1979	H7	LIG	120	-8.896	9.694	-17.690	1.00	0.00
ATOM	1980	H8	LIG	120	-8.178	10.616	-19.029	1.00	0.00
ATOM	1981	H9	LIG	120	-9.530	9.523	-19.341	1.00	0.00
TER									
ATOM	1982	S1	LIG	121	-15.675	-26.578	-18.687	1.00	0.00
ATOM	1983	O1	LIG	121	-13.076	-28.135	-15.231	1.00	0.00
ATOM	1984	O2	LIG	121	-15.747	-25.476	-19.896	1.00	0.00
ATOM	1985	O3	LIG	121	-15.456	-28.159	-19.016	1.00	0.00
ATOM	1986	N1	LIG	121	-14.206	-25.927	-17.753	1.00	0.00
ATOM	1987	H1	LIG	121	-13.702	-25.309	-18.384	1.00	0.00
ATOM	1988	N2	LIG	121	-14.147	-27.532	-16.020	1.00	0.00
ATOM	1989	N3	LIG	121	-20.465	-25.820	-15.156	1.00	0.00
ATOM	1990	H10	LIG	121	-21.107	-25.063	-15.314	1.00	0.00
ATOM	1991	H11	LIG	121	-20.660	-26.450	-14.396	1.00	0.00
ATOM	1992	C1	LIG	121	-17.126	-26.346	-17.565	1.00	0.00
ATOM	1993	C2	LIG	121	-17.978	-25.276	-17.832	1.00	0.00
ATOM	1994	H2	LIG	121	-17.769	-24.609	-18.660	1.00	0.00
ATOM	1995	C3	LIG	121	-17.345	-27.249	-16.526	1.00	0.00
ATOM	1996	H3	LIG	121	-16.645	-28.052	-16.334	1.00	0.00

ATOM	1997	C4	LIG	121	-13.506	-26.698	-16.844	1.00	0.00
ATOM	1998	C5	LIG	121	-19.358	-25.993	-15.955	1.00	0.00
ATOM	1999	C6	LIG	121	-19.097	-25.101	-17.024	1.00	0.00
ATOM	2000	H4	LIG	121	-19.777	-24.278	-17.216	1.00	0.00
ATOM	2001	C7	LIG	121	-18.464	-27.066	-15.720	1.00	0.00
ATOM	2002	H5	LIG	121	-18.652	-27.751	-14.900	1.00	0.00
ATOM	2003	C8	LIG	121	-12.083	-26.697	-16.637	1.00	0.00
ATOM	2004	H6	LIG	121	-11.351	-26.116	-17.173	1.00	0.00
ATOM	2005	C9	LIG	121	-11.868	-27.591	-15.629	1.00	0.00
ATOM	2006	C10	LIG	121	-10.651	-28.078	-14.927	1.00	0.00
ATOM	2007	H7	LIG	121	-9.759	-27.590	-15.328	1.00	0.00
ATOM	2008	H8	LIG	121	-10.710	-27.871	-13.853	1.00	0.00
ATOM	2009	H9	LIG	121	-10.540	-29.161	-15.048	1.00	0.00
TER									
ATOM	2010	S1	LIG	122	-8.609	-10.453	-18.697	1.00	0.00
ATOM	2011	O1	LIG	122	-6.408	-6.925	-20.655	1.00	0.00
ATOM	2012	O2	LIG	122	-9.043	-11.108	-17.261	1.00	0.00
ATOM	2013	O3	LIG	122	-9.721	-9.758	-19.664	1.00	0.00
ATOM	2014	N1	LIG	122	-7.407	-9.164	-18.106	1.00	0.00
ATOM	2015	H1	LIG	122	-7.586	-9.022	-17.116	1.00	0.00
ATOM	2016	N2	LIG	122	-6.800	-8.256	-20.201	1.00	0.00
ATOM	2017	N3	LIG	122	-5.437	-14.529	-21.749	1.00	0.00

ATOM	2018	H10	LIG	122	-5.194	-15.411	-21.332	1.00	0.00
ATOM	2019	H11	LIG	122	-5.141	-14.361	-22.696	1.00	0.00
ATOM	2020	C1	LIG	122	-7.602	-11.679	-19.646	1.00	0.00
ATOM	2021	C2	LIG	122	-7.293	-12.882	-19.014	1.00	0.00
ATOM	2022	H2	LIG	122	-7.627	-13.063	-17.998	1.00	0.00
ATOM	2023	C3	LIG	122	-7.218	-11.390	-20.955	1.00	0.00
ATOM	2024	H3	LIG	122	-7.454	-10.433	-21.403	1.00	0.00
ATOM	2025	C4	LIG	122	-7.021	-8.096	-18.893	1.00	0.00
ATOM	2026	C5	LIG	122	-6.154	-13.585	-21.051	1.00	0.00
ATOM	2027	C6	LIG	122	-6.568	-13.837	-19.720	1.00	0.00
ATOM	2028	H4	LIG	122	-6.320	-14.782	-19.250	1.00	0.00
ATOM	2029	C7	LIG	122	-6.489	-12.348	-21.653	1.00	0.00
ATOM	2030	H5	LIG	122	-6.172	-12.143	-22.671	1.00	0.00
ATOM	2031	C8	LIG	122	-6.781	-6.749	-18.451	1.00	0.00
ATOM	2032	H6	LIG	122	-6.891	-6.366	-17.450	1.00	0.00
ATOM	2033	C9	LIG	122	-6.399	-6.067	-19.570	1.00	0.00
ATOM	2034	C10	LIG	122	-6.013	-4.656	-19.834	1.00	0.00
ATOM	2035	H7	LIG	122	-6.050	-4.072	-18.911	1.00	0.00
ATOM	2036	H8	LIG	122	-4.998	-4.599	-20.244	1.00	0.00
ATOM	2037	H9	LIG	122	-6.689	-4.199	-20.565	1.00	0.00
TER									
ATOM	2038	S1	LIG	123	-5.631	17.028	17.908	1.00	0.00

ATOM	2039	O1	LIG	123	-2.085	18.932	20.127	1.00	0.00
ATOM	2040	O2	LIG	123	-6.174	16.563	16.435	1.00	0.00
ATOM	2041	O3	LIG	123	-5.200	15.921	19.023	1.00	0.00
ATOM	2042	N1	LIG	123	-4.139	18.011	17.398	1.00	0.00
ATOM	2043	H1	LIG	123	-3.912	17.736	16.446	1.00	0.00
ATOM	2044	N2	LIG	123	-3.398	18.670	19.543	1.00	0.00
ATOM	2045	N3	LIG	123	-9.571	20.911	20.230	1.00	0.00
ATOM	2046	H10	LIG	123	-10.362	21.225	19.694	1.00	0.00
ATOM	2047	H11	LIG	123	-9.472	21.260	21.168	1.00	0.00
ATOM	2048	C1	LIG	123	-6.813	18.250	18.634	1.00	0.00
ATOM	2049	C2	LIG	123	-7.888	18.652	17.842	1.00	0.00
ATOM	2050	H2	LIG	123	-7.996	18.262	16.836	1.00	0.00
ATOM	2051	C3	LIG	123	-6.624	18.701	19.939	1.00	0.00
ATOM	2052	H3	LIG	123	-5.761	18.387	20.514	1.00	0.00
ATOM	2053	C4	LIG	123	-3.123	18.326	18.281	1.00	0.00
ATOM	2054	C5	LIG	123	-8.657	20.029	19.699	1.00	0.00
ATOM	2055	C6	LIG	123	-8.812	19.543	18.378	1.00	0.00
ATOM	2056	H4	LIG	123	-9.658	19.866	17.782	1.00	0.00
ATOM	2057	C7	LIG	123	-7.550	19.595	20.467	1.00	0.00
ATOM	2058	H5	LIG	123	-7.419	19.966	21.479	1.00	0.00
ATOM	2059	C8	LIG	123	-1.716	18.363	17.990	1.00	0.00
ATOM	2060	H6	LIG	123	-1.242	18.126	17.052	1.00	0.00

ATOM	2061	C9	LIG	123	-1.119	18.748	19.155	1.00	0.00
ATOM	2062	C10	LIG	123	0.292	18.979	19.562	1.00	0.00
ATOM	2063	H7	LIG	123	0.966	18.796	18.721	1.00	0.00
ATOM	2064	H8	LIG	123	0.436	20.009	19.907	1.00	0.00
ATOM	2065	H9	LIG	123	0.573	18.313	20.385	1.00	0.00
TER									
ATOM	2066	S1	LIG	124	-20.923	-3.296	0.955	1.00	0.00
ATOM	2067	O1	LIG	124	-19.123	0.571	-0.757	1.00	0.00
ATOM	2068	O2	LIG	124	-21.621	-3.956	2.281	1.00	0.00
ATOM	2069	O3	LIG	124	-21.803	-2.988	-0.381	1.00	0.00
ATOM	2070	N1	LIG	124	-20.315	-1.697	1.682	1.00	0.00
ATOM	2071	H1	LIG	124	-20.828	-1.549	2.547	1.00	0.00
ATOM	2072	N2	LIG	124	-19.310	-0.787	-0.253	1.00	0.00
ATOM	2073	N3	LIG	124	-16.071	-6.539	-0.436	1.00	0.00
ATOM	2074	H10	LIG	124	-15.771	-7.296	0.154	1.00	0.00
ATOM	2075	H11	LIG	124	-15.540	-6.354	-1.269	1.00	0.00
ATOM	2076	C1	LIG	124	-19.406	-4.259	0.522	1.00	0.00
ATOM	2077	C2	LIG	124	-19.036	-5.294	1.381	1.00	0.00
ATOM	2078	H2	LIG	124	-19.621	-5.496	2.270	1.00	0.00
ATOM	2079	C3	LIG	124	-18.706	-3.957	-0.645	1.00	0.00
ATOM	2080	H3	LIG	124	-19.009	-3.128	-1.273	1.00	0.00
ATOM	2081	C4	LIG	124	-19.966	-0.613	0.898	1.00	0.00

ATOM	2082	C5	LIG	124	-17.176	-5.784	-0.117	1.00	0.00
ATOM	2083	C6	LIG	124	-17.919	-6.057	1.058	1.00	0.00
ATOM	2084	H4	LIG	124	-17.615	-6.870	1.709	1.00	0.00
ATOM	2085	C7	LIG	124	-17.588	-4.722	-0.959	1.00	0.00
ATOM	2086	H5	LIG	124	-17.023	-4.501	-1.859	1.00	0.00
ATOM	2087	C8	LIG	124	-20.207	0.772	1.195	1.00	0.00
ATOM	2088	H6	LIG	124	-20.717	1.170	2.057	1.00	0.00
ATOM	2089	C9	LIG	124	-19.664	1.463	0.151	1.00	0.00
ATOM	2090	C10	LIG	124	-19.562	2.907	-0.186	1.00	0.00
ATOM	2091	H7	LIG	124	-20.029	3.514	0.594	1.00	0.00
ATOM	2092	H8	LIG	124	-18.515	3.212	-0.287	1.00	0.00
ATOM	2093	H9	LIG	124	-20.060	3.119	-1.139	1.00	0.00
TER									
END									

**Table I:** The number of atoms present in the system of BN-Dic

ATOM	1	N	GLN	1	-7.077	-12.405	1.432	1.00	0.00
ATOM	2	H1	GLN	1	-6.146	-12.736	1.641	1.00	0.00
ATOM	3	H2	GLN	1	-7.308	-11.659	2.072	1.00	0.00
ATOM	4	H3	GLN	1	-7.154	-12.258	0.436	1.00	0.00
ATOM	5	CA	GLN	1	-8.022	-13.483	1.738	1.00	0.00
ATOM	6	HA	GLN	1	-8.724	-13.145	2.500	1.00	0.00

ATOM	7	CB	GLN	1	-8.815	-13.899	0.491	1.00	0.00
ATOM	8	HB2	GLN	1	-8.518	-13.265	-0.344	1.00	0.00
ATOM	9	HB3	GLN	1	-8.585	-14.939	0.257	1.00	0.00
ATOM	10	CG	GLN	1	-10.315	-13.752	0.732	1.00	0.00
ATOM	11	HG2	GLN	1	-10.930	-14.559	0.333	1.00	0.00
ATOM	12	HG3	GLN	1	-10.391	-13.741	1.819	1.00	0.00
ATOM	13	CD	GLN	1	-10.840	-12.431	0.195	1.00	0.00
ATOM	14	OE1	GLN	1	-11.198	-11.530	0.935	1.00	0.00
ATOM	15	NE2	GLN	1	-10.736	-12.271	-1.111	1.00	0.00
ATOM	16	HE21	GLN	1	-11.064	-11.418	-1.540	1.00	0.00
ATOM	17	HE22	GLN	1	-10.329	-13.003	-1.676	1.00	0.00
ATOM	18	C	GLN	1	-7.290	-14.686	2.322	1.00	0.00
ATOM	19	O	GLN	1	-7.642	-15.166	3.390	1.00	0.00
ATOM	20	N	PRO	2	-6.232	-15.137	1.626	1.00	0.00
ATOM	21	CD	PRO	2	-5.736	-14.613	0.355	1.00	0.00
ATOM	22	HD2	PRO	2	-5.331	-13.619	0.545	1.00	0.00
ATOM	23	HD3	PRO	2	-6.586	-14.535	-0.322	1.00	0.00
ATOM	24	CG	PRO	2	-4.682	-15.586	-0.148	1.00	0.00
ATOM	25	HG2	PRO	2	-3.717	-15.081	-0.189	1.00	0.00
ATOM	26	HG3	PRO	2	-4.956	-15.927	-1.147	1.00	0.00
ATOM	27	CB	PRO	2	-4.659	-16.752	0.839	1.00	0.00
ATOM	28	HB2	PRO	2	-3.639	-17.013	1.122	1.00	0.00



ATOM	29	HB3 PRO	2	-5.153	-17.627	0.417	1.00	0.00
ATOM	30	CA PRO	2	-5.428	-16.259	2.063	1.00	0.00
ATOM	31	HA PRO	2	-6.098	-17.065	2.362	1.00	0.00
ATOM	32	C PRO	2	-4.538	-15.893	3.219	1.00	0.00
ATOM	33	O PRO	2	-3.549	-15.212	3.007	1.00	0.00
ATOM	34	N GLN	3	-4.884	-16.356	4.424	1.00	0.00
ATOM	35	H GLN	3	-5.707	-16.934	4.519	1.00	0.00
ATOM	36	CA GLN	3	-4.116	-16.054	5.613	1.00	0.00
ATOM	37	HA GLN	3	-4.042	-14.974	5.736	1.00	0.00
ATOM	38	CB GLN	3	-4.782	-16.642	6.856	1.00	0.00
ATOM	39	HB2 GLN	3	-5.833	-16.831	6.637	1.00	0.00
ATOM	40	HB3 GLN	3	-4.290	-17.582	7.108	1.00	0.00
ATOM	41	CG GLN	3	-4.673	-15.673	8.041	1.00	0.00
ATOM	42	HG2 GLN	3	-4.227	-16.217	8.874	1.00	0.00
ATOM	43	HG3 GLN	3	-4.043	-14.821	7.785	1.00	0.00
ATOM	44	CD GLN	3	-6.030	-15.160	8.470	1.00	0.00
ATOM	45	OE1 GLN	3	-6.650	-15.674	9.380	1.00	0.00
ATOM	46	NE2 GLN	3	-6.496	-14.148	7.760	1.00	0.00
ATOM	47	HE21 GLN	3	-7.396	-13.750	7.985	1.00	0.00
ATOM	48	HE22 GLN	3	-5.950	-13.778	6.995	1.00	0.00
ATOM	49	C GLN	3	-2.734	-16.631	5.489	1.00	0.00
ATOM	50	O GLN	3	-1.793	-16.054	5.961	1.00	0.00

ATOM	51	N	LYS	4	-2.568	-17.745	4.784	1.00	0.00
ATOM	52	H	LYS	4	-3.384	-18.227	4.435	1.00	0.00
ATOM	53	CA	LYS	4	-1.264	-18.352	4.568	1.00	0.00
ATOM	54	HA	LYS	4	-0.913	-18.831	5.482	1.00	0.00
ATOM	55	CB	LYS	4	-1.371	-19.414	3.470	1.00	0.00
ATOM	56	HB2	LYS	4	-0.539	-20.110	3.581	1.00	0.00
ATOM	57	HB3	LYS	4	-2.311	-19.950	3.599	1.00	0.00
ATOM	58	CG	LYS	4	-1.329	-18.785	2.068	1.00	0.00
ATOM	59	HG2	LYS	4	-1.538	-17.719	2.156	1.00	0.00
ATOM	60	HG3	LYS	4	-0.332	-18.927	1.650	1.00	0.00
ATOM	61	CD	LYS	4	-2.363	-19.432	1.148	1.00	0.00
ATOM	62	HD2	LYS	4	-3.326	-19.454	1.659	1.00	0.00
ATOM	63	HD3	LYS	4	-2.448	-18.837	0.239	1.00	0.00
ATOM	64	CE	LYS	4	-1.947	-20.857	0.786	1.00	0.00
ATOM	65	HE2	LYS	4	-1.746	-20.910	-0.284	1.00	0.00
ATOM	66	HE3	LYS	4	-1.044	-21.117	1.338	1.00	0.00
ATOM	67	NZ	LYS	4	-3.023	-21.804	1.131	1.00	0.00
ATOM	68	HZ1	LYS	4	-3.860	-21.564	0.619	1.00	0.00
ATOM	69	HZ2	LYS	4	-2.737	-22.742	0.887	1.00	0.00
ATOM	70	HZ3	LYS	4	-3.209	-21.756	2.122	1.00	0.00
ATOM	71	C	LYS	4	-0.210	-17.280	4.239	1.00	0.00
ATOM	72	O	LYS	4	0.933	-17.444	4.603	1.00	0.00

ATOM	73	N	CYX	5	-0.654	-16.181	3.603	1.00	0.00
ATOM	74	H	CYX	5	-1.614	-16.148	3.291	1.00	0.00
ATOM	75	CA	CYX	5	0.185	-15.064	3.327	1.00	0.00
ATOM	76	HA	CYX	5	1.202	-15.260	3.666	1.00	0.00
ATOM	77	CB	CYX	5	0.212	-14.819	1.841	1.00	0.00
ATOM	78	HB2	CYX	5	-0.379	-15.583	1.335	1.00	0.00
ATOM	79	HB3	CYX	5	-0.206	-13.836	1.627	1.00	0.00
ATOM	80	SG	CYX	5	1.878	-14.897	1.115	1.00	0.00
ATOM	81	C	CYX	5	-0.327	-13.858	4.045	1.00	0.00
ATOM	82	O	CYX	5	0.429	-13.101	4.571	1.00	0.00
ATOM	83	N	GLN	6	-1.637	-13.667	4.168	1.00	0.00
ATOM	84	H	GLN	6	-2.251	-14.305	3.681	1.00	0.00
ATOM	85	CA	GLN	6	-2.227	-12.562	4.887	1.00	0.00
ATOM	86	HA	GLN	6	-1.816	-11.622	4.519	1.00	0.00
ATOM	87	CB	GLN	6	-3.744	-12.542	4.692	1.00	0.00
ATOM	88	HB2	GLN	6	-4.062	-13.528	4.354	1.00	0.00
ATOM	89	HB3	GLN	6	-4.213	-12.318	5.650	1.00	0.00
ATOM	90	CG	GLN	6	-4.160	-11.495	3.666	1.00	0.00
ATOM	91	HG2	GLN	6	-3.246	-10.990	3.353	1.00	0.00
ATOM	92	HG3	GLN	6	-4.634	-11.957	2.800	1.00	0.00
ATOM	93	CD	GLN	6	-5.106	-10.467	4.244	1.00	0.00
ATOM	94	OE1	GLN	6	-5.126	-10.168	5.423	1.00	0.00

ATOM	95	NE2 GLN	6	-5.968	-9.949	3.380	1.00	0.00
ATOM	96	HE21 GLN	6	-6.633	-9.255	3.689	1.00	0.00
ATOM	97	HE22 GLN	6	-5.955	-10.251	2.416	1.00	0.00
ATOM	98	C GLN	6	-1.875	-12.601	6.364	1.00	0.00
ATOM	99	O GLN	6	-2.120	-11.654	7.092	1.00	0.00
ATOM	100	N ARG	7	-1.309	-13.709	6.824	1.00	0.00
ATOM	101	H ARG	7	-1.185	-14.459	6.158	1.00	0.00
ATOM	102	CA ARG	7	-0.898	-13.929	8.178	1.00	0.00
ATOM	103	HA ARG	7	-1.303	-13.138	8.809	1.00	0.00
ATOM	104	CB ARG	7	-1.393	-15.279	8.707	1.00	0.00
ATOM	105	HB2 ARG	7	-2.198	-15.638	8.065	1.00	0.00
ATOM	106	HB3 ARG	7	-0.568	-15.992	8.687	1.00	0.00
ATOM	107	CG ARG	7	-1.908	-15.137	10.136	1.00	0.00
ATOM	108	HG2 ARG	7	-1.180	-14.570	10.715	1.00	0.00
ATOM	109	HG3 ARG	7	-2.855	-14.597	10.114	1.00	0.00
ATOM	110	CD ARG	7	-2.118	-16.510	10.784	1.00	0.00
ATOM	111	HD2 ARG	7	-3.112	-16.886	10.539	1.00	0.00
ATOM	112	HD3 ARG	7	-1.366	-17.210	10.418	1.00	0.00
ATOM	113	NE ARG	7	-1.998	-16.411	12.253	1.00	0.00
ATOM	114	HE ARG	7	-2.860	-16.319	12.771	1.00	0.00
ATOM	115	CZ ARG	7	-0.856	-16.429	12.924	1.00	0.00
ATOM	116	NH1 ARG	7	0.286	-16.560	12.290	1.00	0.00

ATOM	117	HH11	ARG	7	0.294	-16.648	11.284	1.00	0.00
ATOM	118	HH12	ARG	7	1.151	-16.573	12.811	1.00	0.00
ATOM	119	NH2	ARG	7	-0.854	-16.322	14.231	1.00	0.00
ATOM	120	HH21	ARG	7	-1.728	-16.226	14.728	1.00	0.00
ATOM	121	HH22	ARG	7	0.021	-16.337	14.734	1.00	0.00
ATOM	122	C	ARG	7	0.603	-13.875	8.279	1.00	0.00
ATOM	123	O	ARG	7	1.079	-13.882	9.387	1.00	0.00
ATOM	124	N	GLU	8	1.299	-13.863	7.155	1.00	0.00
ATOM	125	H	GLU	8	0.801	-13.956	6.281	1.00	0.00
ATOM	126	CA	GLU	8	2.744	-13.786	7.116	1.00	0.00
ATOM	127	HA	GLU	8	3.146	-13.828	8.128	1.00	0.00
ATOM	128	CB	GLU	8	3.313	-14.958	6.316	1.00	0.00
ATOM	129	HB2	GLU	8	2.490	-15.502	5.851	1.00	0.00
ATOM	130	HB3	GLU	8	3.975	-14.570	5.542	1.00	0.00
ATOM	131	CG	GLU	8	4.098	-15.905	7.231	1.00	0.00
ATOM	132	HG2	GLU	8	3.754	-15.710	8.246	1.00	0.00
ATOM	133	HG3	GLU	8	3.906	-16.948	6.977	1.00	0.00
ATOM	134	CD	GLU	8	5.602	-15.626	7.139	1.00	0.00
ATOM	135	OE1	GLU	8	6.161	-15.890	6.055	1.00	0.00
ATOM	136	OE2	GLU	8	6.158	-15.210	8.174	1.00	0.00
ATOM	137	C	GLU	8	3.220	-12.465	6.529	1.00	0.00
ATOM	138	O	GLU	8	4.288	-11.980	6.845	1.00	0.00

ATOM	139	N	PHE	9	2.361	-11.809	5.761	1.00	0.00
ATOM	140	H	PHE	9	1.447	-12.219	5.629	1.00	0.00
ATOM	141	CA	PHE	9	2.646	-10.567	5.116	1.00	0.00
ATOM	142	HA	PHE	9	3.684	-10.534	4.786	1.00	0.00
ATOM	143	CB	PHE	9	1.742	-10.431	3.895	1.00	0.00
ATOM	144	HB2	PHE	9	2.217	-10.927	3.048	1.00	0.00
ATOM	145	HB3	PHE	9	0.771	-10.889	4.086	1.00	0.00
ATOM	146	CG	PHE	9	1.471	-9.004	3.466	1.00	0.00
ATOM	147	CD1	PHE	9	0.648	-8.165	4.236	1.00	0.00
ATOM	148	HD1	PHE	9	0.176	-8.567	5.132	1.00	0.00
ATOM	149	CE1	PHE	9	0.431	-6.839	3.870	1.00	0.00
ATOM	150	HE1	PHE	9	-0.168	-6.186	4.504	1.00	0.00
ATOM	151	CZ	PHE	9	0.982	-6.349	2.689	1.00	0.00
ATOM	152	HZ	PHE	9	0.808	-5.318	2.380	1.00	0.00
ATOM	153	CE2	PHE	9	1.764	-7.192	1.897	1.00	0.00
ATOM	154	HE2	PHE	9	2.176	-6.808	0.964	1.00	0.00
ATOM	155	CD2	PHE	9	2.021	-8.510	2.284	1.00	0.00
ATOM	156	HD2	PHE	9	2.649	-9.148	1.662	1.00	0.00
ATOM	157	C	PHE	9	2.378	-9.454	6.086	1.00	0.00
ATOM	158	O	PHE	9	3.052	-8.444	6.106	1.00	0.00
ATOM	159	N	GLN	10	1.305	-9.581	6.883	1.00	0.00
ATOM	160	H	GLN	10	0.716	-10.397	6.788	1.00	0.00

ATOM	161	CA	GLN	10	0.917	-8.563	7.830	1.00	0.00
ATOM	162	HA	GLN	10	1.371	-7.612	7.551	1.00	0.00
ATOM	163	CB	GLN	10	-0.606	-8.391	7.853	1.00	0.00
ATOM	164	HB2	GLN	10	-0.902	-7.793	6.992	1.00	0.00
ATOM	165	HB3	GLN	10	-1.069	-9.376	7.787	1.00	0.00
ATOM	166	CG	GLN	10	-1.065	-7.695	9.142	1.00	0.00
ATOM	167	HG2	GLN	10	-0.917	-8.354	9.997	1.00	0.00
ATOM	168	HG3	GLN	10	-0.464	-6.795	9.269	1.00	0.00
ATOM	169	CD	GLN	10	-2.516	-7.300	9.084	1.00	0.00
ATOM	170	OE1	GLN	10	-2.885	-6.303	8.484	1.00	0.00
ATOM	171	NE2	GLN	10	-3.355	-8.115	9.697	1.00	0.00
ATOM	172	HE21	GLN	10	-4.344	-7.910	9.697	1.00	0.00
ATOM	173	HE22	GLN	10	-3.004	-8.940	10.163	1.00	0.00
ATOM	174	C	GLN	10	1.460	-8.934	9.204	1.00	0.00
ATOM	175	O	GLN	10	1.443	-8.126	10.131	1.00	0.00
ATOM	176	N	GLN	11	1.929	-10.166	9.362	1.00	0.00
ATOM	177	H	GLN	11	1.885	-10.818	8.591	1.00	0.00
ATOM	178	CA	GLN	11	2.459	-10.629	10.618	1.00	0.00
ATOM	179	HA	GLN	11	1.654	-10.729	11.346	1.00	0.00
ATOM	180	CB	GLN	11	3.128	-11.987	10.442	1.00	0.00
ATOM	181	HB2	GLN	11	2.800	-12.424	9.498	1.00	0.00
ATOM	182	HB3	GLN	11	4.209	-11.849	10.422	1.00	0.00

ATOM	183	CG	GLN	11	2.755	-12.924	11.594	1.00	0.00
ATOM	184	HG2	GLN	11	1.936	-12.453	12.137	1.00	0.00
ATOM	185	HG3	GLN	11	2.430	-13.895	11.219	1.00	0.00
ATOM	186	CD	GLN	11	3.911	-13.136	12.550	1.00	0.00
ATOM	187	OE1	GLN	11	5.065	-13.175	12.182	1.00	0.00
ATOM	188	NE2	GLN	11	3.571	-13.328	13.814	1.00	0.00
ATOM	189	HE21	GLN	11	4.288	-13.477	14.510	1.00	0.00
ATOM	190	HE22	GLN	11	2.596	-13.326	14.077	1.00	0.00
ATOM	191	C	GLN	11	3.447	-9.628	11.186	1.00	0.00
ATOM	192	O	GLN	11	3.248	-9.113	12.282	1.00	0.00
ATOM	193	N	GLU	12	4.437	-9.259	10.372	1.00	0.00
ATOM	194	H	GLU	12	4.507	-9.672	9.453	1.00	0.00
ATOM	195	CA	GLU	12	5.481	-8.344	10.797	1.00	0.00
ATOM	196	HA	GLU	12	5.034	-7.372	11.006	1.00	0.00
ATOM	197	CB	GLU	12	6.207	-8.832	12.060	1.00	0.00
ATOM	198	HB2	GLU	12	7.231	-8.459	12.034	1.00	0.00
ATOM	199	HB3	GLU	12	5.694	-8.424	12.931	1.00	0.00
ATOM	200	CG	GLU	12	6.223	-10.361	12.148	1.00	0.00
ATOM	201	HG2	GLU	12	5.324	-10.727	12.644	1.00	0.00
ATOM	202	HG3	GLU	12	6.242	-10.722	11.119	1.00	0.00
ATOM	203	CD	GLU	12	7.449	-10.869	12.884	1.00	0.00
ATOM	204	OE1	GLU	12	8.499	-11.008	12.216	1.00	0.00



ATOM	205	OE2	GLU	12	7.338	-11.060	14.119	1.00	0.00
ATOM	206	C	GLU	12	6.467	-8.104	9.662	1.00	0.00
ATOM	207	O	GLU	12	7.652	-7.868	9.868	1.00	0.00
ATOM	208	N	GLN	13	5.958	-8.121	8.431	1.00	0.00
ATOM	209	H	GLN	13	4.981	-8.342	8.299	1.00	0.00
ATOM	210	CA	GLN	13	6.775	-7.908	7.261	1.00	0.00
ATOM	211	HA	GLN	13	7.519	-7.139	7.467	1.00	0.00
ATOM	212	CB	GLN	13	7.501	-9.197	6.866	1.00	0.00
ATOM	213	HB2	GLN	13	6.922	-10.051	7.219	1.00	0.00
ATOM	214	HB3	GLN	13	7.583	-9.238	5.780	1.00	0.00
ATOM	215	CG	GLN	13	8.897	-9.239	7.483	1.00	0.00
ATOM	216	HG2	GLN	13	9.381	-8.263	7.474	1.00	0.00
ATOM	217	HG3	GLN	13	8.767	-9.570	8.513	1.00	0.00
ATOM	218	CD	GLN	13	9.793	-10.231	6.765	1.00	0.00
ATOM	219	OE1	GLN	13	9.716	-10.456	5.566	1.00	0.00
ATOM	220	NE2	GLN	13	10.730	-10.796	7.509	1.00	0.00
ATOM	221	HE21	GLN	13	11.362	-11.467	7.096	1.00	0.00
ATOM	222	HE22	GLN	13	10.808	-10.554	8.486	1.00	0.00
ATOM	223	C	GLN	13	5.933	-7.385	6.129	1.00	0.00
ATOM	224	O	GLN	13	5.952	-7.921	5.060	1.00	0.00
ATOM	225	N	HIE	14	5.149	-6.339	6.383	1.00	0.00
ATOM	226	H	HIE	14	5.129	-5.974	7.324	1.00	0.00

ATOM	227	CA	HIE	14	4.254	-5.760	5.403	1.00	0.00
ATOM	228	HA	HIE	14	3.646	-6.546	4.955	1.00	0.00
ATOM	229	CB	HIE	14	3.324	-4.731	6.052	1.00	0.00
ATOM	230	HB2	HIE	14	3.786	-3.744	6.057	1.00	0.00
ATOM	231	HB3	HIE	14	2.403	-4.698	5.469	1.00	0.00
ATOM	232	CG	HIE	14	2.925	-5.025	7.468	1.00	0.00
ATOM	233	ND1	HIE	14	2.373	-4.097	8.316	1.00	0.00
ATOM	234	CE1	HIE	14	2.149	-4.682	9.500	1.00	0.00
ATOM	235	HE1	HIE	14	1.685	-4.131	10.318	1.00	0.00
ATOM	236	NE2	HIE	14	2.582	-5.943	9.428	1.00	0.00
ATOM	237	HE2	HIE	14	2.567	-6.615	10.182	1.00	0.00
ATOM	238	CD2	HIE	14	3.053	-6.189	8.167	1.00	0.00
ATOM	239	HD2	HIE	14	3.430	-7.179	7.909	1.00	0.00
ATOM	240	C	HIE	14	5.100	-5.178	4.280	1.00	0.00
ATOM	241	O	HIE	14	6.210	-5.589	3.982	1.00	0.00
ATOM	242	N	LEU	15	4.602	-4.101	3.675	1.00	0.00
ATOM	243	H	LEU	15	3.673	-3.782	3.908	1.00	0.00
ATOM	244	CA	LEU	15	5.305	-3.436	2.602	1.00	0.00
ATOM	245	HA	LEU	15	6.305	-3.855	2.495	1.00	0.00
ATOM	246	CB	LEU	15	4.550	-3.627	1.280	1.00	0.00
ATOM	247	HB2	LEU	15	3.722	-2.924	1.367	1.00	0.00
ATOM	248	HB3	LEU	15	5.187	-3.335	0.445	1.00	0.00

ATOM	249	CG	LEU	15	4.000	-5.035	1.034	1.00	0.00
ATOM	250	HG	LEU	15	3.144	-5.198	1.689	1.00	0.00
ATOM	251	CD1	LEU	15	3.567	-5.202	-0.418	1.00	0.00
ATOM	252	HD11	LEU	15	4.422	-5.040	-1.074	1.00	0.00
ATOM	253	HD12	LEU	15	3.180	-6.210	-0.569	1.00	0.00
ATOM	254	HD13	LEU	15	2.788	-4.476	-0.652	1.00	0.00
ATOM	255	CD2	LEU	15	4.985	-6.099	1.426	1.00	0.00
ATOM	256	HD21	LEU	15	5.219	-6.006	2.486	1.00	0.00
ATOM	257	HD22	LEU	15	4.554	-7.082	1.235	1.00	0.00
ATOM	258	HD23	LEU	15	5.898	-5.983	0.841	1.00	0.00
ATOM	259	C	LEU	15	5.532	-1.986	2.958	1.00	0.00
ATOM	260	O	LEU	15	4.939	-1.488	3.921	1.00	0.00
ATOM	261	N	ARG	16	6.344	-1.296	2.156	1.00	0.00
ATOM	262	H	ARG	16	6.759	-1.754	1.357	1.00	0.00
ATOM	263	CA	ARG	16	6.653	0.096	2.384	1.00	0.00
ATOM	264	HA	ARG	16	5.794	0.589	2.840	1.00	0.00
ATOM	265	CB	ARG	16	7.854	0.248	3.315	1.00	0.00
ATOM	266	HB2	ARG	16	8.558	-0.558	3.109	1.00	0.00
ATOM	267	HB3	ARG	16	8.331	1.207	3.114	1.00	0.00
ATOM	268	CG	ARG	16	7.426	0.189	4.782	1.00	0.00
ATOM	269	HG2	ARG	16	6.355	-0.008	4.825	1.00	0.00
ATOM	270	HG3	ARG	16	7.964	-0.624	5.270	1.00	0.00

ATOM	271	CD	ARG	16	7.732	1.506	5.498	1.00	0.00
ATOM	272	HD2	ARG	16	7.700	2.326	4.781	1.00	0.00
ATOM	273	HD3	ARG	16	6.991	1.677	6.278	1.00	0.00
ATOM	274	NE	ARG	16	9.071	1.471	6.117	1.00	0.00
ATOM	275	HE	ARG	16	9.708	0.773	5.761	1.00	0.00
ATOM	276	CZ	ARG	16	9.489	2.275	7.077	1.00	0.00
ATOM	277	NH1	ARG	16	8.694	3.203	7.559	1.00	0.00
ATOM	278	HH11	ARG	16	7.758	3.301	7.193	1.00	0.00
ATOM	279	HH12	ARG	16	9.023	3.813	8.293	1.00	0.00
ATOM	280	NH2	ARG	16	10.699	2.151	7.565	1.00	0.00
ATOM	281	HH21	ARG	16	11.315	1.436	7.204	1.00	0.00
ATOM	282	HH22	ARG	16	11.010	2.770	8.299	1.00	0.00
ATOM	283	C	ARG	16	6.975	0.750	1.089	1.00	0.00
ATOM	284	O	ARG	16	6.157	1.485	0.606	1.00	0.00
ATOM	285	N	ALA	17	8.111	0.463	0.491	1.00	0.00
ATOM	286	H	ALA	17	8.771	-0.126	0.978	1.00	0.00
ATOM	287	CA	ALA	17	8.498	1.014	-0.781	1.00	0.00
ATOM	288	HA	ALA	17	8.655	2.086	-0.666	1.00	0.00
ATOM	289	CB	ALA	17	9.814	0.373	-1.246	1.00	0.00
ATOM	290	HB1	ALA	17	9.671	-0.700	-1.375	1.00	0.00
ATOM	291	HB2	ALA	17	10.118	0.814	-2.195	1.00	0.00
ATOM	292	HB3	ALA	17	10.588	0.548	-0.499	1.00	0.00

ATOM	293	C	ALA	17	7.374	0.840	-1.821	1.00	0.00
ATOM	294	O	ALA	17	7.276	1.583	-2.788	1.00	0.00
ATOM	295	N	CYX	18	6.435	-0.076	-1.563	1.00	0.00
ATOM	296	H	CYX	18	6.536	-0.634	-0.727	1.00	0.00
ATOM	297	CA	CYX	18	5.338	-0.350	-2.429	1.00	0.00
ATOM	298	HA	CYX	18	5.625	-0.133	-3.458	1.00	0.00
ATOM	299	CB	CYX	18	4.917	-1.811	-2.340	1.00	0.00
ATOM	300	HB2	CYX	18	5.727	-2.397	-1.905	1.00	0.00
ATOM	301	HB3	CYX	18	4.030	-1.897	-1.713	1.00	0.00
ATOM	302	SG	CYX	18	4.555	-2.606	-3.923	1.00	0.00
ATOM	303	C	CYX	18	4.224	0.584	-2.050	1.00	0.00
ATOM	304	O	CYX	18	3.668	1.282	-2.880	1.00	0.00
ATOM	305	N	GLN	19	3.895	0.630	-0.762	1.00	0.00
ATOM	306	H	GLN	19	4.328	-0.019	-0.121	1.00	0.00
ATOM	307	CA	GLN	19	2.880	1.510	-0.257	1.00	0.00
ATOM	308	HA	GLN	19	2.162	1.747	-1.042	1.00	0.00
ATOM	309	CB	GLN	19	2.145	0.837	0.884	1.00	0.00
ATOM	310	HB2	GLN	19	1.323	1.489	1.178	1.00	0.00
ATOM	311	HB3	GLN	19	1.744	-0.105	0.509	1.00	0.00
ATOM	312	CG	GLN	19	3.034	0.565	2.091	1.00	0.00
ATOM	313	HG2	GLN	19	2.854	-0.451	2.444	1.00	0.00
ATOM	314	HG3	GLN	19	4.080	0.669	1.803	1.00	0.00

ATOM	315	CD	GLN	19	2.744	1.534	3.228	1.00	0.00
ATOM	316	OE1	GLN	19	3.630	2.166	3.803	1.00	0.00
ATOM	317	NE2	GLN	19	1.469	1.655	3.570	1.00	0.00
ATOM	318	HE21	GLN	19	1.207	2.281	4.317	1.00	0.00
ATOM	319	HE22	GLN	19	0.765	1.120	3.081	1.00	0.00
ATOM	320	C	GLN	19	3.463	2.837	0.159	1.00	0.00
ATOM	321	O	GLN	19	2.967	3.451	1.074	1.00	0.00
ATOM	322	N	GLN	20	4.546	3.278	-0.458	1.00	0.00
ATOM	323	H	GLN	20	4.925	2.710	-1.203	1.00	0.00
ATOM	324	CA	GLN	20	5.236	4.495	-0.107	1.00	0.00
ATOM	325	HA	GLN	20	4.590	5.089	0.539	1.00	0.00
ATOM	326	CB	GLN	20	6.555	4.236	0.625	1.00	0.00
ATOM	327	HB2	GLN	20	7.113	3.476	0.078	1.00	0.00
ATOM	328	HB3	GLN	20	7.129	5.162	0.647	1.00	0.00
ATOM	329	CG	GLN	20	6.307	3.754	2.062	1.00	0.00
ATOM	330	HG2	GLN	20	5.345	3.244	2.123	1.00	0.00
ATOM	331	HG3	GLN	20	7.105	3.055	2.315	1.00	0.00
ATOM	332	CD	GLN	20	6.319	4.878	3.059	1.00	0.00
ATOM	333	OE1	GLN	20	6.879	5.940	2.856	1.00	0.00
ATOM	334	NE2	GLN	20	5.650	4.667	4.181	1.00	0.00
ATOM	335	HE21	GLN	20	5.621	5.385	4.890	1.00	0.00
ATOM	336	HE22	GLN	20	5.172	3.788	4.322	1.00	0.00

ATOM	337	C	GLN	20	5.500	5.283	-1.364	1.00	0.00
ATOM	338	O	GLN	20	5.317	6.491	-1.388	1.00	0.00
ATOM	339	N	TRP	21	5.876	4.596	-2.443	1.00	0.00
ATOM	340	H	TRP	21	6.042	3.602	-2.373	1.00	0.00
ATOM	341	CA	TRP	21	6.121	5.245	-3.713	1.00	0.00
ATOM	342	HA	TRP	21	6.884	6.014	-3.595	1.00	0.00
ATOM	343	CB	TRP	21	6.608	4.229	-4.745	1.00	0.00
ATOM	344	HB2	TRP	21	7.110	4.742	-5.565	1.00	0.00
ATOM	345	HB3	TRP	21	7.311	3.556	-4.254	1.00	0.00
ATOM	346	CG	TRP	21	5.553	3.370	-5.361	1.00	0.00
ATOM	347	CD1	TRP	21	5.208	2.101	-5.053	1.00	0.00
ATOM	348	HD1	TRP	21	5.795	1.645	-4.256	1.00	0.00
ATOM	349	NE1	TRP	21	4.162	1.644	-5.833	1.00	0.00
ATOM	350	HE1	TRP	21	3.723	0.737	-5.756	1.00	0.00
ATOM	351	CE2	TRP	21	3.794	2.635	-6.708	1.00	0.00
ATOM	352	CZ2	TRP	21	2.807	2.710	-7.689	1.00	0.00
ATOM	353	HZ2	TRP	21	2.185	1.829	-7.851	1.00	0.00
ATOM	354	CH2	TRP	21	2.674	3.900	-8.402	1.00	0.00
ATOM	355	HH2	TRP	21	1.931	3.985	-9.195	1.00	0.00
ATOM	356	CZ3	TRP	21	3.490	5.004	-8.113	1.00	0.00
ATOM	357	HZ3	TRP	21	3.344	5.945	-8.643	1.00	0.00
ATOM	358	CE3	TRP	21	4.504	4.942	-7.152	1.00	0.00

ATOM	359	HE3 TRP	21	5.135	5.817	-7.000	1.00	0.00
ATOM	360	CD2 TRP	21	4.658	3.748	-6.419	1.00	0.00
ATOM	361	C TRP	21	4.846	5.939	-4.160	1.00	0.00
ATOM	362	O TRP	21	4.863	7.009	-4.757	1.00	0.00
ATOM	363	N ILE	22	3.695	5.339	-3.833	1.00	0.00
ATOM	364	H ILE	22	3.721	4.455	-3.345	1.00	0.00
ATOM	365	CA ILE	22	2.406	5.879	-4.204	1.00	0.00
ATOM	366	HA ILE	22	2.393	6.208	-5.243	1.00	0.00
ATOM	367	CB ILE	22	1.311	4.827	-3.988	1.00	0.00
ATOM	368	HB ILE	22	1.257	4.579	-2.928	1.00	0.00
ATOM	369	CG2 ILE	22	-0.043	5.371	-4.454	1.00	0.00
ATOM	370	HG21 ILE	22	0.010	5.618	-5.514	1.00	0.00
ATOM	371	HG22 ILE	22	-0.813	4.615	-4.296	1.00	0.00
ATOM	372	HG23 ILE	22	-0.291	6.266	-3.884	1.00	0.00
ATOM	373	CG1 ILE	22	1.657	3.526	-4.719	1.00	0.00
ATOM	374	HG12 ILE	22	1.392	3.638	-5.771	1.00	0.00
ATOM	375	HG13 ILE	22	2.730	3.354	-4.631	1.00	0.00
ATOM	376	CD1 ILE	22	0.902	2.339	-4.129	1.00	0.00
ATOM	377	HD11 ILE	22	-0.171	2.510	-4.217	1.00	0.00
ATOM	378	HD12 ILE	22	1.170	1.431	-4.671	1.00	0.00
ATOM	379	HD13 ILE	22	1.166	2.225	-3.078	1.00	0.00
ATOM	380	C ILE	22	2.159	7.130	-3.385	1.00	0.00



ATOM	381	O	ILE	22	1.521	8.068	-3.839	1.00	0.00
ATOM	382	N	ARG	23	2.681	7.168	-2.153	1.00	0.00
ATOM	383	H	ARG	23	3.140	6.344	-1.790	1.00	0.00
ATOM	384	CA	ARG	23	2.581	8.329	-1.299	1.00	0.00
ATOM	385	HA	ARG	23	1.543	8.659	-1.255	1.00	0.00
ATOM	386	CB	ARG	23	3.051	8.014	0.114	1.00	0.00
ATOM	387	HB2	ARG	23	3.828	7.251	0.065	1.00	0.00
ATOM	388	HB3	ARG	23	3.460	8.920	0.559	1.00	0.00
ATOM	389	CG	ARG	23	1.894	7.506	0.968	1.00	0.00
ATOM	390	HG2	ARG	23	2.046	7.831	1.997	1.00	0.00
ATOM	391	HG3	ARG	23	0.964	7.928	0.588	1.00	0.00
ATOM	392	CD	ARG	23	1.817	5.985	0.923	1.00	0.00
ATOM	393	HD2	ARG	23	0.895	5.670	0.434	1.00	0.00
ATOM	394	HD3	ARG	23	2.671	5.582	0.379	1.00	0.00
ATOM	395	NE	ARG	23	1.833	5.440	2.308	1.00	0.00
ATOM	396	HE	ARG	23	1.049	4.850	2.549	1.00	0.00
ATOM	397	CZ	ARG	23	2.791	5.594	3.186	1.00	0.00
ATOM	398	NH1	ARG	23	3.818	6.347	2.884	1.00	0.00
ATOM	399	HH11	ARG	23	3.861	6.799	1.982	1.00	0.00
ATOM	400	HH12	ARG	23	4.563	6.472	3.554	1.00	0.00
ATOM	401	NH2	ARG	23	2.690	5.074	4.383	1.00	0.00
ATOM	402	HH21	ARG	23	1.865	4.548	4.634	1.00	0.00

ATOM	403	HH22	ARG	23	3.437	5.201	5.050	1.00	0.00
ATOM	404	C	ARG	23	3.396	9.499	-1.845	1.00	0.00
ATOM	405	O	ARG	23	3.182	10.646	-1.452	1.00	0.00
ATOM	406	N	GLN	24	4.331	9.208	-2.743	1.00	0.00
ATOM	407	H	GLN	24	4.518	8.242	-2.972	1.00	0.00
ATOM	408	CA	GLN	24	5.137	10.225	-3.365	1.00	0.00
ATOM	409	HA	GLN	24	5.354	11.018	-2.649	1.00	0.00
ATOM	410	CB	GLN	24	6.457	9.628	-3.846	1.00	0.00
ATOM	411	HB2	GLN	24	6.331	8.554	-3.983	1.00	0.00
ATOM	412	HB3	GLN	24	6.727	10.086	-4.798	1.00	0.00
ATOM	413	CG	GLN	24	7.566	9.884	-2.825	1.00	0.00
ATOM	414	HG2	GLN	24	8.283	10.589	-3.245	1.00	0.00
ATOM	415	HG3	GLN	24	7.121	10.311	-1.927	1.00	0.00
ATOM	416	CD	GLN	24	8.300	8.615	-2.445	1.00	0.00
ATOM	417	OE1	GLN	24	8.325	7.646	-3.176	1.00	0.00
ATOM	418	NE2	GLN	24	8.916	8.617	-1.284	1.00	0.00
ATOM	419	HE21	GLN	24	9.421	7.796	-0.982	1.00	0.00
ATOM	420	HE22	GLN	24	8.882	9.439	-0.699	1.00	0.00
ATOM	421	C	GLN	24	4.401	10.883	-4.519	1.00	0.00
ATOM	422	O	GLN	24	4.830	11.912	-5.028	1.00	0.00
ATOM	423	N	GLN	25	3.289	10.265	-4.945	1.00	0.00
ATOM	424	H	GLN	25	3.030	9.371	-4.553	1.00	0.00

ATOM	425	CA	GLN	25	2.479	10.806	-6.009	1.00	0.00
ATOM	426	HA	GLN	25	3.116	11.134	-6.830	1.00	0.00
ATOM	427	CB	GLN	25	1.512	9.741	-6.535	1.00	0.00
ATOM	428	HB2	GLN	25	1.605	8.843	-5.925	1.00	0.00
ATOM	429	HB3	GLN	25	0.493	10.121	-6.468	1.00	0.00
ATOM	430	CG	GLN	25	1.834	9.403	-7.990	1.00	0.00
ATOM	431	HG2	GLN	25	2.915	9.268	-8.012	1.00	0.00
ATOM	432	HG3	GLN	25	1.348	8.488	-8.330	1.00	0.00
ATOM	433	CD	GLN	25	1.466	10.530	-8.939	1.00	0.00
ATOM	434	OE1	GLN	25	0.974	11.572	-8.586	1.00	0.00
ATOM	435	NE2	GLN	25	1.616	10.284	-10.223	1.00	0.00
ATOM	436	HE21	GLN	25	1.387	10.997	-10.901	1.00	0.00
ATOM	437	HE22	GLN	25	1.960	9.383	-10.525	1.00	0.00
ATOM	438	C	GLN	25	1.727	12.048	-5.535	1.00	0.00
ATOM	439	O	GLN	25	1.114	12.779	-6.301	1.00	0.00
ATOM	440	N	LEU	26	1.738	12.298	-4.229	1.00	0.00
ATOM	441	H	LEU	26	2.161	11.622	-3.609	1.00	0.00
ATOM	442	CA	LEU	26	1.063	13.426	-3.649	1.00	0.00
ATOM	443	HA	LEU	26	0.545	13.985	-4.428	1.00	0.00
ATOM	444	CB	LEU	26	0.032	12.964	-2.608	1.00	0.00
ATOM	445	HB2	LEU	26	0.547	13.064	-1.653	1.00	0.00
ATOM	446	HB3	LEU	26	-0.818	13.645	-2.636	1.00	0.00

ATOM	447	CG	LEU	26	-0.464	11.520	-2.772	1.00	0.00
ATOM	448	HG	LEU	26	-0.349	11.220	-3.814	1.00	0.00
ATOM	449	CD1	LEU	26	0.336	10.582	-1.885	1.00	0.00
ATOM	450	HD11	LEU	26	0.221	10.880	-0.843	1.00	0.00
ATOM	451	HD12	LEU	26	-0.028	9.562	-2.013	1.00	0.00
ATOM	452	HD13	LEU	26	1.389	10.629	-2.162	1.00	0.00
ATOM	453	CD2	LEU	26	-1.954	11.419	-2.450	1.00	0.00
ATOM	454	HD21	LEU	26	-2.517	12.062	-3.126	1.00	0.00
ATOM	455	HD22	LEU	26	-2.284	10.387	-2.573	1.00	0.00
ATOM	456	HD23	LEU	26	-2.126	11.735	-1.421	1.00	0.00
ATOM	457	C	LEU	26	2.096	14.396	-3.102	1.00	0.00
ATOM	458	O	LEU	26	3.290	14.272	-3.345	1.00	0.00
ATOM	459	N	ALA	27	1.623	15.361	-2.316	1.00	0.00
ATOM	460	H	ALA	27	0.625	15.460	-2.193	1.00	0.00
ATOM	461	CA	ALA	27	2.494	16.337	-1.689	1.00	0.00
ATOM	462	HA	ALA	27	3.390	16.488	-2.291	1.00	0.00
ATOM	463	CB	ALA	27	1.747	17.661	-1.587	1.00	0.00
ATOM	464	HB1	ALA	27	0.852	17.528	-0.980	1.00	0.00
ATOM	465	HB2	ALA	27	2.392	18.408	-1.124	1.00	0.00
ATOM	466	HB3	ALA	27	1.462	17.996	-2.585	1.00	0.00
ATOM	467	C	ALA	27	2.970	15.823	-0.333	1.00	0.00
ATOM	468	O	ALA	27	3.409	16.590	0.519	1.00	0.00

ATOM	469	N	GLY	28	2.826	14.510	-0.100	1.00	0.00
ATOM	470	H	GLY	28	2.399	13.933	-0.811	1.00	0.00
ATOM	471	CA	GLY	28	3.255	13.880	1.127	1.00	0.00
ATOM	472	HA2	GLY	28	3.047	14.551	1.960	1.00	0.00
ATOM	473	HA3	GLY	28	2.699	12.952	1.261	1.00	0.00
ATOM	474	C	GLY	28	4.743	13.567	1.103	1.00	0.00
ATOM	475	O	GLY	28	5.221	12.803	1.936	1.00	0.00
ATOM	476	N	SER	29	5.463	14.112	0.122	1.00	0.00
ATOM	477	H	SER	29	4.989	14.655	-0.585	1.00	0.00
ATOM	478	CA	SER	29	6.885	13.912	-0.009	1.00	0.00
ATOM	479	HA	SER	29	7.337	13.776	0.973	1.00	0.00
ATOM	480	CB	SER	29	7.158	12.666	-0.848	1.00	0.00
ATOM	481	HB2	SER	29	6.908	11.799	-0.236	1.00	0.00
ATOM	482	HB3	SER	29	6.495	12.703	-1.712	1.00	0.00
ATOM	483	OG	SER	29	8.498	12.562	-1.287	1.00	0.00
ATOM	484	HG	SER	29	8.603	11.761	-1.807	1.00	0.00
ATOM	485	C	SER	29	7.557	15.119	-0.620	1.00	0.00
ATOM	486	O	SER	29	6.911	15.849	-1.343	1.00	0.00
ATOM	487	N	PRO	30	8.816	15.363	-0.254	1.00	0.00
ATOM	488	CD	PRO	30	9.599	14.552	0.662	1.00	0.00
ATOM	489	HD2	PRO	30	9.769	13.583	0.192	1.00	0.00
ATOM	490	HD3	PRO	30	9.016	14.416	1.573	1.00	0.00

ATOM	491	CG	PRO	30	10.894	15.318	0.909	1.00	0.00
ATOM	492	HG2	PRO	30	11.733	14.726	0.542	1.00	0.00
ATOM	493	HG3	PRO	30	11.009	15.486	1.980	1.00	0.00
ATOM	494	CB	PRO	30	10.775	16.646	0.157	1.00	0.00
ATOM	495	HB2	PRO	30	11.677	16.864	-0.415	1.00	0.00
ATOM	496	HB3	PRO	30	10.574	17.467	0.845	1.00	0.00
ATOM	497	CA	PRO	30	9.593	16.459	-0.789	1.00	0.00
ATOM	498	HA	PRO	30	8.982	17.360	-0.740	1.00	0.00
ATOM	499	C	PRO	30	10.021	16.219	-2.216	1.00	0.00
ATOM	500	O	PRO	30	9.695	15.188	-2.793	1.00	0.00
ATOM	501	N	PHE	31	10.790	17.163	-2.770	1.00	0.00
ATOM	502	H	PHE	31	11.061	17.970	-2.227	1.00	0.00
ATOM	503	CA	PHE	31	11.261	17.065	-4.133	1.00	0.00
ATOM	504	HA	PHE	31	11.516	16.036	-4.387	1.00	0.00
ATOM	505	CB	PHE	31	10.131	17.531	-5.056	1.00	0.00
ATOM	506	HB2	PHE	31	10.063	18.617	-5.114	1.00	0.00
ATOM	507	HB3	PHE	31	10.357	17.129	-6.044	1.00	0.00
ATOM	508	CG	PHE	31	8.748	17.029	-4.690	1.00	0.00
ATOM	509	CD1	PHE	31	8.341	15.740	-5.069	1.00	0.00
ATOM	510	HD1	PHE	31	9.003	15.122	-5.677	1.00	0.00
ATOM	511	CE1	PHE	31	7.090	15.245	-4.670	1.00	0.00
ATOM	512	HE1	PHE	31	6.798	14.227	-4.929	1.00	0.00

ATOM	513	CZ	PHE	31	6.217	16.059	-3.939	1.00	0.00
ATOM	514	HZ	PHE	31	5.225	15.696	-3.668	1.00	0.00
ATOM	515	CE2	PHE	31	6.623	17.348	-3.554	1.00	0.00
ATOM	516	HE2	PHE	31	5.942	17.981	-2.985	1.00	0.00
ATOM	517	CD2	PHE	31	7.897	17.821	-3.899	1.00	0.00
ATOM	518	HD2	PHE	31	8.226	18.801	-3.554	1.00	0.00
ATOM	519	C	PHE	31	12.479	17.945	-4.353	1.00	0.00
ATOM	520	O	PHE	31	12.613	18.989	-3.711	1.00	0.00
ATOM	521	N	SER	32	13.359	17.518	-5.256	1.00	0.00
ATOM	522	H	SER	32	13.219	16.628	-5.714	1.00	0.00
ATOM	523	CA	SER	32	14.557	18.273	-5.572	1.00	0.00
ATOM	524	HA	SER	32	14.458	19.294	-5.205	1.00	0.00
ATOM	525	CB	SER	32	15.786	17.630	-4.911	1.00	0.00
ATOM	526	HB2	SER	32	15.473	16.699	-4.438	1.00	0.00
ATOM	527	HB3	SER	32	16.519	17.413	-5.688	1.00	0.00
ATOM	528	OG	SER	32	16.366	18.480	-3.941	1.00	0.00
ATOM	529	HG	SER	32	17.128	18.046	-3.551	1.00	0.00
ATOM	530	C	SER	32	14.738	18.353	-7.080	1.00	0.00
ATOM	531	O	SER	32	14.379	19.350	-7.706	1.00	0.00
ATOM	532	N	GLU	33	15.291	17.285	-7.664	1.00	0.00
ATOM	533	H	GLU	33	15.619	16.519	-7.094	1.00	0.00
ATOM	534	CA	GLU	33	15.524	17.227	-9.086	1.00	0.00

ATOM	535	HA	GLU	33	15.719	18.229	-9.468	1.00	0.00
ATOM	536	CB	GLU	33	16.734	16.338	-9.400	1.00	0.00
ATOM	537	HB2	GLU	33	17.005	15.791	-8.497	1.00	0.00
ATOM	538	HB3	GLU	33	16.451	15.632	-10.181	1.00	0.00
ATOM	539	CG	GLU	33	17.926	17.165	-9.870	1.00	0.00
ATOM	540	HG2	GLU	33	18.045	17.025	-10.945	1.00	0.00
ATOM	541	HG3	GLU	33	17.732	18.216	-9.660	1.00	0.00
ATOM	542	CD	GLU	33	19.204	16.731	-9.156	1.00	0.00
ATOM	543	OE1	GLU	33	19.585	15.551	-9.333	1.00	0.00
ATOM	544	OE2	GLU	33	19.775	17.584	-8.444	1.00	0.00
ATOM	545	C	GLU	33	14.268	16.756	-9.809	1.00	0.00
ATOM	546	O	GLU	33	13.185	16.662	-9.224	1.00	0.00
ATOM	547	N	ASN	34	14.420	16.431	-11.098	1.00	0.00
ATOM	548	H	ASN	34	15.318	16.556	-11.542	1.00	0.00
ATOM	549	CA	ASN	34	13.337	15.912	-11.886	1.00	0.00
ATOM	550	HA	ASN	34	12.387	16.305	-11.524	1.00	0.00
ATOM	551	CB	ASN	34	13.513	16.327	-13.345	1.00	0.00
ATOM	552	HB2	ASN	34	14.580	16.353	-13.568	1.00	0.00
ATOM	553	HB3	ASN	34	13.022	15.610	-14.003	1.00	0.00
ATOM	554	CG	ASN	34	12.931	17.699	-13.605	1.00	0.00
ATOM	555	OD1	ASN	34	11.863	18.054	-13.135	1.00	0.00
ATOM	556	ND2	ASN	34	13.647	18.475	-14.395	1.00	0.00



ATOM	557	HD21	ASN	34	13.321	19.405	-14.614	1.00	0.00
ATOM	558	HD22	ASN	34	14.518	18.135	-14.778	1.00	0.00
ATOM	559	C	ASN	34	13.294	14.402	-11.805	1.00	0.00
ATOM	560	O	ASN	34	14.340	13.756	-11.748	1.00	0.00
ATOM	561	N	GLN	35	12.094	13.838	-11.897	1.00	0.00
ATOM	562	H	GLN	35	11.276	14.429	-11.939	1.00	0.00
ATOM	563	CA	GLN	35	11.904	12.410	-11.879	1.00	0.00
ATOM	564	HA	GLN	35	12.406	11.964	-12.738	1.00	0.00
ATOM	565	CB	GLN	35	12.482	11.798	-10.603	1.00	0.00
ATOM	566	HB2	GLN	35	13.262	12.459	-10.227	1.00	0.00
ATOM	567	HB3	GLN	35	11.683	11.723	-9.865	1.00	0.00
ATOM	568	CG	GLN	35	13.069	10.414	-10.859	1.00	0.00
ATOM	569	HG2	GLN	35	13.304	9.931	-9.910	1.00	0.00
ATOM	570	HG3	GLN	35	12.331	9.818	-11.396	1.00	0.00
ATOM	571	CD	GLN	35	14.337	10.486	-11.695	1.00	0.00
ATOM	572	OE1	GLN	35	15.379	10.946	-11.272	1.00	0.00
ATOM	573	NE2	GLN	35	14.231	9.995	-12.919	1.00	0.00
ATOM	574	HE21	GLN	35	15.031	10.007	-13.536	1.00	0.00
ATOM	575	HE22	GLN	35	13.351	9.610	-13.231	1.00	0.00
ATOM	576	C	GLN	35	10.437	12.090	-12.012	1.00	0.00
ATOM	577	O	GLN	35	9.593	12.943	-11.733	1.00	0.00
ATOM	578	N	TRP	36	10.141	10.833	-12.391	1.00	0.00

ATOM	579	H	TRP	36	10.883	10.192	-12.634	1.00	0.00
ATOM	580	CA	TRP	36	8.766	10.378	-12.525	1.00	0.00
ATOM	581	HA	TRP	36	8.310	10.836	-13.403	1.00	0.00
ATOM	582	CB	TRP	36	8.715	8.855	-12.686	1.00	0.00
ATOM	583	HB2	TRP	36	8.999	8.570	-13.699	1.00	0.00
ATOM	584	HB3	TRP	36	9.406	8.403	-11.975	1.00	0.00
ATOM	585	CG	TRP	36	7.368	8.239	-12.427	1.00	0.00
ATOM	586	CD1	TRP	36	6.686	8.159	-11.251	1.00	0.00
ATOM	587	HD1	TRP	36	7.193	8.588	-10.387	1.00	0.00
ATOM	588	NE1	TRP	36	5.462	7.532	-11.412	1.00	0.00
ATOM	589	HE1	TRP	36	4.795	7.347	-10.677	1.00	0.00
ATOM	590	CE2	TRP	36	5.311	7.182	-12.733	1.00	0.00
ATOM	591	CZ2	TRP	36	4.283	6.527	-13.412	1.00	0.00
ATOM	592	HZ2	TRP	36	3.403	6.224	-12.845	1.00	0.00
ATOM	593	CH2	TRP	36	4.447	6.299	-14.787	1.00	0.00
ATOM	594	HH2	TRP	36	3.668	5.791	-15.356	1.00	0.00
ATOM	595	CZ3	TRP	36	5.613	6.720	-15.452	1.00	0.00
ATOM	596	HZ3	TRP	36	5.729	6.537	-16.521	1.00	0.00
ATOM	597	CE3	TRP	36	6.652	7.378	-14.781	1.00	0.00
ATOM	598	HE3	TRP	36	7.536	7.671	-15.347	1.00	0.00
ATOM	599	CD2	TRP	36	6.511	7.618	-13.400	1.00	0.00
ATOM	600	C	TRP	36	7.963	10.840	-11.301	1.00	0.00

ATOM	601	O	TRP	36	6.768	11.089	-11.393	1.00	0.00
ATOM	602	N	GLY	37	8.641	10.938	-10.145	1.00	0.00
ATOM	603	H	GLY	37	9.605	10.638	-10.110	1.00	0.00
ATOM	604	CA	GLY	37	8.045	11.456	-8.945	1.00	0.00
ATOM	605	HA2	GLY	37	7.601	12.428	-9.157	1.00	0.00
ATOM	606	HA3	GLY	37	7.269	10.769	-8.606	1.00	0.00
ATOM	607	C	GLY	37	9.078	11.614	-7.847	1.00	0.00
ATOM	608	O	GLY	37	9.620	12.699	-7.651	1.00	0.00
ATOM	609	N	PRO	38	9.377	10.505	-7.153	1.00	0.00
ATOM	610	CD	PRO	38	8.791	9.184	-7.347	1.00	0.00
ATOM	611	HD2	PRO	38	9.133	8.804	-8.310	1.00	0.00
ATOM	612	HD3	PRO	38	7.707	9.298	-7.366	1.00	0.00
ATOM	613	CG	PRO	38	9.266	8.326	-6.176	1.00	0.00
ATOM	614	HG2	PRO	38	9.876	7.507	-6.557	1.00	0.00
ATOM	615	HG3	PRO	38	8.399	7.920	-5.654	1.00	0.00
ATOM	616	CB	PRO	38	10.073	9.244	-5.261	1.00	0.00
ATOM	617	HB2	PRO	38	11.014	8.776	-4.971	1.00	0.00
ATOM	618	HB3	PRO	38	9.506	9.503	-4.367	1.00	0.00
ATOM	619	CA	PRO	38	10.349	10.493	-6.081	1.00	0.00
ATOM	620	HA	PRO	38	10.158	11.346	-5.430	1.00	0.00
ATOM	621	C	PRO	38	11.757	10.575	-6.616	1.00	0.00
ATOM	622	O	PRO	38	12.470	9.587	-6.664	1.00	0.00

ATOM	623	N	GLN	39	12.182	11.764	-7.033	1.00	0.00
ATOM	624	H	GLN	39	11.553	12.553	-7.017	1.00	0.00
ATOM	625	CA	GLN	39	13.509	11.957	-7.570	1.00	0.00
ATOM	626	HA	GLN	39	13.666	11.296	-8.423	1.00	0.00
ATOM	627	CB	GLN	39	13.683	13.408	-8.036	1.00	0.00
ATOM	628	HB2	GLN	39	12.862	13.673	-8.703	1.00	0.00
ATOM	629	HB3	GLN	39	13.675	14.068	-7.169	1.00	0.00
ATOM	630	CG	GLN	39	15.014	13.559	-8.780	1.00	0.00
ATOM	631	HG2	GLN	39	15.145	12.729	-9.475	1.00	0.00
ATOM	632	HG3	GLN	39	14.976	14.496	-9.336	1.00	0.00
ATOM	633	CD	GLN	39	16.205	13.599	-7.843	1.00	0.00
ATOM	634	OE1	GLN	39	16.095	13.982	-6.681	1.00	0.00
ATOM	635	NE2	GLN	39	17.343	13.173	-8.346	1.00	0.00
ATOM	636	HE21	GLN	39	18.176	13.173	-7.775	1.00	0.00
ATOM	637	HE22	GLN	39	17.379	12.847	-9.302	1.00	0.00
ATOM	638	C	GLN	39	14.557	11.591	-6.532	1.00	0.00
ATOM	639	O	GLN	39	15.619	11.074	-6.873	1.00	0.00
ATOM	640	N	GLN	40	14.236	11.839	-5.258	1.00	0.00
ATOM	641	H	GLN	40	13.368	12.305	-5.036	1.00	0.00
ATOM	642	CA	GLN	40	15.133	11.516	-4.179	1.00	0.00
ATOM	643	HA	GLN	40	16.168	11.613	-4.508	1.00	0.00
ATOM	644	CB	GLN	40	14.899	12.474	-3.012	1.00	0.00

ATOM	645	HB2	GLN	40	14.679	13.467	-3.404	1.00	0.00
ATOM	646	HB3	GLN	40	14.052	12.120	-2.425	1.00	0.00
ATOM	647	CG	GLN	40	16.146	12.541	-2.121	1.00	0.00
ATOM	648	HG2	GLN	40	16.973	12.123	-2.696	1.00	0.00
ATOM	649	HG3	GLN	40	16.377	13.571	-1.849	1.00	0.00
ATOM	650	CD	GLN	40	15.980	11.725	-0.843	1.00	0.00
ATOM	651	OE1	GLN	40	14.904	11.279	-0.464	1.00	0.00
ATOM	652	NE2	GLN	40	17.078	11.564	-0.125	1.00	0.00
ATOM	653	HE21	GLN	40	17.043	11.034	0.734	1.00	0.00
ATOM	654	HE22	GLN	40	17.947	11.971	-0.439	1.00	0.00
ATOM	655	C	GLN	40	14.960	10.064	-3.740	1.00	0.00
ATOM	656	O	GLN	40	15.683	9.571	-2.884	1.00	0.00
ATOM	657	N	GLY	41	13.979	9.371	-4.319	1.00	0.00
ATOM	658	H	GLY	41	13.388	9.844	-4.987	1.00	0.00
ATOM	659	CA	GLY	41	13.718	7.979	-4.040	1.00	0.00
ATOM	660	HA2	GLY	41	14.650	7.493	-3.752	1.00	0.00
ATOM	661	HA3	GLY	41	13.003	7.908	-3.221	1.00	0.00
ATOM	662	C	GLY	41	13.149	7.273	-5.253	1.00	0.00
ATOM	663	O	GLY	41	12.025	6.814	-5.248	1.00	0.00
ATOM	664	N	PRO	42	13.902	7.203	-6.350	1.00	0.00
ATOM	665	CD	PRO	42	15.243	7.732	-6.488	1.00	0.00
ATOM	666	HD2	PRO	42	15.901	7.155	-5.838	1.00	0.00

ATOM	667	HD3 PRO	42	15.230	8.771	-6.161	1.00	0.00
ATOM	668	CG PRO	42	15.606	7.591	-7.963	1.00	0.00
ATOM	669	HG2 PRO	42	16.456	6.914	-8.057	1.00	0.00
ATOM	670	HG3 PRO	42	15.877	8.570	-8.357	1.00	0.00
ATOM	671	CB PRO	42	14.369	7.037	-8.677	1.00	0.00
ATOM	672	HB2 PRO	42	14.638	6.207	-9.330	1.00	0.00
ATOM	673	HB3 PRO	42	13.864	7.808	-9.259	1.00	0.00
ATOM	674	CA PRO	42	13.452	6.543	-7.562	1.00	0.00
ATOM	675	HA PRO	42	12.439	6.881	-7.780	1.00	0.00
ATOM	676	C PRO	42	13.461	5.037	-7.421	1.00	0.00
ATOM	677	O PRO	42	12.622	4.346	-8.012	1.00	0.00
ATOM	678	N SER	43	14.396	4.539	-6.619	1.00	0.00
ATOM	679	H SER	43	15.058	5.170	-6.192	1.00	0.00
ATOM	680	CA SER	43	14.544	3.124	-6.375	1.00	0.00
ATOM	681	HA SER	43	14.441	2.581	-7.315	1.00	0.00
ATOM	682	CB SER	43	15.916	2.805	-5.774	1.00	0.00
ATOM	683	HB2 SER	43	15.814	2.752	-4.690	1.00	0.00
ATOM	684	HB3 SER	43	16.243	1.837	-6.155	1.00	0.00
ATOM	685	OG SER	43	16.877	3.796	-6.112	1.00	0.00
ATOM	686	HG SER	43	17.723	3.567	-5.721	1.00	0.00
ATOM	687	C SER	43	13.428	2.644	-5.454	1.00	0.00
ATOM	688	O SER	43	13.637	2.333	-4.288	1.00	0.00

ATOM	689	N	LEU	44	12.201	2.599	-5.971	1.00	0.00
ATOM	690	H	LEU	44	12.058	2.907	-6.922	1.00	0.00
ATOM	691	CA	LEU	44	11.056	2.176	-5.213	1.00	0.00
ATOM	692	HA	LEU	44	11.380	1.712	-4.281	1.00	0.00
ATOM	693	CB	LEU	44	10.166	3.373	-4.880	1.00	0.00
ATOM	694	HB2	LEU	44	10.384	4.119	-5.644	1.00	0.00
ATOM	695	HB3	LEU	44	9.122	3.069	-4.957	1.00	0.00
ATOM	696	CG	LEU	44	10.424	3.975	-3.488	1.00	0.00
ATOM	697	HG	LEU	44	11.415	3.670	-3.153	1.00	0.00
ATOM	698	CD1	LEU	44	10.348	5.483	-3.528	1.00	0.00
ATOM	699	HD11	LEU	44	9.357	5.788	-3.863	1.00	0.00
ATOM	700	HD12	LEU	44	10.534	5.883	-2.532	1.00	0.00
ATOM	701	HD13	LEU	44	11.098	5.867	-4.219	1.00	0.00
ATOM	702	CD2	LEU	44	9.437	3.447	-2.469	1.00	0.00
ATOM	703	HD21	LEU	44	9.530	2.363	-2.400	1.00	0.00
ATOM	704	HD22	LEU	44	9.646	3.891	-1.496	1.00	0.00
ATOM	705	HD23	LEU	44	8.424	3.705	-2.776	1.00	0.00
ATOM	706	C	LEU	44	10.328	1.149	-6.019	1.00	0.00
ATOM	707	O	LEU	44	9.914	0.181	-5.453	1.00	0.00
ATOM	708	N	ARG	45	10.164	1.321	-7.326	1.00	0.00
ATOM	709	H	ARG	45	10.533	2.162	-7.745	1.00	0.00
ATOM	710	CA	ARG	45	9.490	0.370	-8.179	1.00	0.00

ATOM	711	HA	ARG	45	8.477	0.201	-7.813	1.00	0.00
ATOM	712	CB	ARG	45	9.410	0.891	-9.610	1.00	0.00
ATOM	713	HB2	ARG	45	10.412	1.172	-9.935	1.00	0.00
ATOM	714	HB3	ARG	45	9.032	0.093	-10.250	1.00	0.00
ATOM	715	CG	ARG	45	8.487	2.100	-9.706	1.00	0.00
ATOM	716	HG2	ARG	45	8.996	2.958	-9.267	1.00	0.00
ATOM	717	HG3	ARG	45	8.286	2.297	-10.759	1.00	0.00
ATOM	718	CD	ARG	45	7.159	1.859	-8.967	1.00	0.00
ATOM	719	HD2	ARG	45	6.927	0.794	-8.968	1.00	0.00
ATOM	720	HD3	ARG	45	7.242	2.211	-7.939	1.00	0.00
ATOM	721	NE	ARG	45	6.060	2.581	-9.625	1.00	0.00
ATOM	722	HE	ARG	45	5.321	2.018	-10.022	1.00	0.00
ATOM	723	CZ	ARG	45	5.958	3.895	-9.697	1.00	0.00
ATOM	724	NH1	ARG	45	6.863	4.669	-9.135	1.00	0.00
ATOM	725	HH11	ARG	45	7.643	4.255	-8.644	1.00	0.00
ATOM	726	HH12	ARG	45	6.773	5.673	-9.198	1.00	0.00
ATOM	727	NH2	ARG	45	4.970	4.442	-10.366	1.00	0.00
ATOM	728	HH21	ARG	45	4.289	3.854	-10.825	1.00	0.00
ATOM	729	HH22	ARG	45	4.896	5.448	-10.419	1.00	0.00
ATOM	730	C	ARG	45	10.223	-0.929	-8.198	1.00	0.00
ATOM	731	O	ARG	45	9.746	-1.879	-7.651	1.00	0.00
ATOM	732	N	GLU	46	11.424	-0.966	-8.738	1.00	0.00



ATOM	733	H	GLU	46	11.802	-0.126	-9.151	1.00	0.00
ATOM	734	CA	GLU	46	12.219	-2.182	-8.799	1.00	0.00
ATOM	735	HA	GLU	46	11.705	-2.932	-9.400	1.00	0.00
ATOM	736	CB	GLU	46	13.583	-1.893	-9.437	1.00	0.00
ATOM	737	HB2	GLU	46	14.049	-1.061	-8.910	1.00	0.00
ATOM	738	HB3	GLU	46	14.211	-2.779	-9.342	1.00	0.00
ATOM	739	CG	GLU	46	13.425	-1.535	-10.920	1.00	0.00
ATOM	740	HG2	GLU	46	13.187	-2.452	-11.460	1.00	0.00
ATOM	741	HG3	GLU	46	12.611	-0.821	-11.043	1.00	0.00
ATOM	742	CD	GLU	46	14.716	-0.937	-11.476	1.00	0.00
ATOM	743	OE1	GLU	46	15.218	0.023	-10.846	1.00	0.00
ATOM	744	OE2	GLU	46	15.168	-1.428	-12.530	1.00	0.00
ATOM	745	C	GLU	46	12.412	-2.769	-7.401	1.00	0.00
ATOM	746	O	GLU	46	12.691	-3.956	-7.260	1.00	0.00
ATOM	747	N	GLN	47	12.227	-1.933	-6.367	1.00	0.00
ATOM	748	H	GLN	47	12.048	-0.957	-6.552	1.00	0.00
ATOM	749	CA	GLN	47	12.326	-2.357	-5.007	1.00	0.00
ATOM	750	HA	GLN	47	13.092	-3.127	-4.913	1.00	0.00
ATOM	751	CB	GLN	47	12.704	-1.183	-4.114	1.00	0.00
ATOM	752	HB2	GLN	47	12.657	-0.263	-4.696	1.00	0.00
ATOM	753	HB3	GLN	47	11.999	-1.125	-3.285	1.00	0.00
ATOM	754	CG	GLN	47	14.124	-1.368	-3.565	1.00	0.00

ATOM	755	HG2	GLN	47	14.202	-2.350	-3.097	1.00	0.00
ATOM	756	HG3	GLN	47	14.854	-1.292	-4.371	1.00	0.00
ATOM	757	CD	GLN	47	14.439	-0.306	-2.522	1.00	0.00
ATOM	758	OE1	GLN	47	15.398	0.443	-2.623	1.00	0.00
ATOM	759	NE2	GLN	47	13.613	-0.255	-1.488	1.00	0.00
ATOM	760	HE21	GLN	47	13.764	0.426	-0.758	1.00	0.00
ATOM	761	HE22	GLN	47	12.836	-0.898	-1.434	1.00	0.00
ATOM	762	C	GLN	47	11.038	-2.970	-4.551	1.00	0.00
ATOM	763	O	GLN	47	11.088	-4.068	-4.085	1.00	0.00
ATOM	764	N	CYX	48	9.903	-2.314	-4.688	1.00	0.00
ATOM	765	H	CYX	48	9.992	-1.386	-5.076	1.00	0.00
ATOM	766	CA	CYX	48	8.603	-2.768	-4.311	1.00	0.00
ATOM	767	HA	CYX	48	8.643	-3.129	-3.283	1.00	0.00
ATOM	768	CB	CYX	48	7.551	-1.673	-4.401	1.00	0.00
ATOM	769	HB2	CYX	48	7.248	-1.377	-3.397	1.00	0.00
ATOM	770	HB3	CYX	48	7.966	-0.812	-4.924	1.00	0.00
ATOM	771	SG	CYX	48	6.016	-2.103	-5.258	1.00	0.00
ATOM	772	C	CYX	48	8.227	-3.913	-5.193	1.00	0.00
ATOM	773	O	CYX	48	7.769	-4.918	-4.725	1.00	0.00
ATOM	774	N	CYX	49	8.456	-3.826	-6.495	1.00	0.00
ATOM	775	H	CYX	49	8.816	-2.944	-6.829	1.00	0.00
ATOM	776	CA	CYX	49	8.186	-4.861	-7.458	1.00	0.00

ATOM	777	HA	CYX	49	7.108	-5.000	-7.536	1.00	0.00
ATOM	778	CB	CYX	49	8.738	-4.517	-8.848	1.00	0.00
ATOM	779	HB2	CYX	49	9.819	-4.390	-8.789	1.00	0.00
ATOM	780	HB3	CYX	49	8.506	-5.325	-9.542	1.00	0.00
ATOM	781	SG	CYX	49	8.117	-2.986	-9.601	1.00	0.00
ATOM	782	C	CYX	49	8.792	-6.161	-6.939	1.00	0.00
ATOM	783	O	CYX	49	8.342	-7.235	-7.309	1.00	0.00
ATOM	784	N	ASN	50	9.824	-6.065	-6.088	1.00	0.00
ATOM	785	H	ASN	50	10.196	-5.149	-5.883	1.00	0.00
ATOM	786	CA	ASN	50	10.412	-7.194	-5.443	1.00	0.00
ATOM	787	HA	ASN	50	10.147	-8.113	-5.966	1.00	0.00
ATOM	788	CB	ASN	50	11.928	-7.045	-5.459	1.00	0.00
ATOM	789	HB2	ASN	50	12.210	-6.028	-5.732	1.00	0.00
ATOM	790	HB3	ASN	50	12.312	-7.274	-4.465	1.00	0.00
ATOM	791	CG	ASN	50	12.552	-8.001	-6.449	1.00	0.00
ATOM	792	OD1	ASN	50	13.120	-9.025	-6.101	1.00	0.00
ATOM	793	ND2	ASN	50	12.420	-7.665	-7.719	1.00	0.00
ATOM	794	HD21	ASN	50	12.812	-8.257	-8.438	1.00	0.00
ATOM	795	HD22	ASN	50	11.928	-6.819	-7.966	1.00	0.00
ATOM	796	C	ASN	50	9.971	-7.296	-4.014	1.00	0.00
ATOM	797	O	ASN	50	9.733	-8.375	-3.562	1.00	0.00
ATOM	798	N	GLU	51	9.858	-6.207	-3.285	1.00	0.00

ATOM	799	H	GLU	51	10.154	-5.351	-3.730	1.00	0.00
ATOM	800	CA	GLU	51	9.442	-6.152	-1.912	1.00	0.00
ATOM	801	HA	GLU	51	10.024	-6.869	-1.333	1.00	0.00
ATOM	802	CB	GLU	51	9.646	-4.756	-1.312	1.00	0.00
ATOM	803	HB2	GLU	51	10.219	-4.856	-0.390	1.00	0.00
ATOM	804	HB3	GLU	51	10.207	-4.152	-2.025	1.00	0.00
ATOM	805	CG	GLU	51	8.311	-4.079	-1.010	1.00	0.00
ATOM	806	HG2	GLU	51	7.768	-4.091	-1.956	1.00	0.00
ATOM	807	HG3	GLU	51	7.730	-4.604	-0.252	1.00	0.00
ATOM	808	CD	GLU	51	8.528	-2.675	-0.582	1.00	0.00
ATOM	809	OE1	GLU	51	8.793	-2.375	0.599	1.00	0.00
ATOM	810	OE2	GLU	51	8.334	-1.835	-1.453	1.00	0.00
ATOM	811	C	GLU	51	7.989	-6.610	-1.793	1.00	0.00
ATOM	812	O	GLU	51	7.492	-6.837	-0.700	1.00	0.00
ATOM	813	N	LEU	52	7.295	-6.735	-2.918	1.00	0.00
ATOM	814	H	LEU	52	7.730	-6.421	-3.774	1.00	0.00
ATOM	815	CA	LEU	52	5.927	-7.147	-2.964	1.00	0.00
ATOM	816	HA	LEU	52	5.503	-7.155	-1.960	1.00	0.00
ATOM	817	CB	LEU	52	5.119	-6.169	-3.830	1.00	0.00
ATOM	818	HB2	LEU	52	4.239	-5.999	-3.210	1.00	0.00
ATOM	819	HB3	LEU	52	5.665	-5.233	-3.949	1.00	0.00
ATOM	820	CG	LEU	52	4.683	-6.684	-5.206	1.00	0.00

ATOM	821	HG	LEU	52	4.316	-5.835	-5.783	1.00	0.00
ATOM	822	CD1	LEU	52	5.812	-7.351	-5.955	1.00	0.00
ATOM	823	HD11	LEU	52	6.179	-8.201	-5.379	1.00	0.00
ATOM	824	HD12	LEU	52	5.451	-7.698	-6.923	1.00	0.00
ATOM	825	HD13	LEU	52	6.622	-6.637	-6.104	1.00	0.00
ATOM	826	CD2	LEU	52	3.483	-7.597	-5.082	1.00	0.00
ATOM	827	HD21	LEU	52	2.654	-7.050	-4.633	1.00	0.00
ATOM	828	HD22	LEU	52	3.191	-7.951	-6.071	1.00	0.00
ATOM	829	HD23	LEU	52	3.738	-8.450	-4.453	1.00	0.00
ATOM	830	C	LEU	52	5.876	-8.603	-3.396	1.00	0.00
ATOM	831	O	LEU	52	4.882	-9.263	-3.150	1.00	0.00
ATOM	832	N	TYR	53	6.935	-9.084	-4.058	1.00	0.00
ATOM	833	H	TYR	53	7.752	-8.497	-4.139	1.00	0.00
ATOM	834	CA	TYR	53	6.985	-10.397	-4.623	1.00	0.00
ATOM	835	HA	TYR	53	5.980	-10.790	-4.776	1.00	0.00
ATOM	836	CB	TYR	53	7.690	-10.318	-5.977	1.00	0.00
ATOM	837	HB2	TYR	53	7.215	-9.512	-6.536	1.00	0.00
ATOM	838	HB3	TYR	53	8.731	-10.061	-5.783	1.00	0.00
ATOM	839	CG	TYR	53	7.628	-11.597	-6.787	1.00	0.00
ATOM	840	CD1	TYR	53	6.389	-12.140	-7.158	1.00	0.00
ATOM	841	HD1	TYR	53	5.476	-11.629	-6.853	1.00	0.00
ATOM	842	CE1	TYR	53	6.313	-13.322	-7.909	1.00	0.00

ATOM	843	HE1	TYR	53	5.349	-13.732	-8.211	1.00	0.00
ATOM	844	CZ	TYR	53	7.503	-13.973	-8.284	1.00	0.00
ATOM	845	OH	TYR	53	7.446	-15.129	-8.994	1.00	0.00
ATOM	846	HH	TYR	53	6.547	-15.409	-9.184	1.00	0.00
ATOM	847	CE2	TYR	53	8.755	-13.440	-7.916	1.00	0.00
ATOM	848	HE2	TYR	53	9.676	-13.946	-8.207	1.00	0.00
ATOM	849	CD2	TYR	53	8.812	-12.248	-7.168	1.00	0.00
ATOM	850	HD2	TYR	53	9.777	-11.829	-6.884	1.00	0.00
ATOM	851	C	TYR	53	7.783	-11.277	-3.714	1.00	0.00
ATOM	852	O	TYR	53	7.570	-12.469	-3.676	1.00	0.00
ATOM	853	N	GLN	54	8.739	-10.714	-2.987	1.00	0.00
ATOM	854	H	GLN	54	8.889	-9.724	-3.121	1.00	0.00
ATOM	855	CA	GLN	54	9.593	-11.414	-2.069	1.00	0.00
ATOM	856	HA	GLN	54	10.219	-12.116	-2.620	1.00	0.00
ATOM	857	CB	GLN	54	10.501	-10.444	-1.303	1.00	0.00
ATOM	858	HB2	GLN	54	11.058	-11.012	-0.558	1.00	0.00
ATOM	859	HB3	GLN	54	11.197	-9.994	-2.011	1.00	0.00
ATOM	860	CG	GLN	54	9.696	-9.344	-0.609	1.00	0.00
ATOM	861	HG2	GLN	54	9.216	-8.695	-1.342	1.00	0.00
ATOM	862	HG3	GLN	54	8.933	-9.832	-0.002	1.00	0.00
ATOM	863	CD	GLN	54	10.563	-8.495	0.295	1.00	0.00
ATOM	864	OE1	GLN	54	11.729	-8.226	0.021	1.00	0.00

ATOM	865	NE2	GLN	54	9.978	-8.025	1.374	1.00	0.00
ATOM	866	HE21	GLN	54	10.502	-7.451	2.019	1.00	0.00
ATOM	867	HE22	GLN	54	9.007	-8.240	1.553	1.00	0.00
ATOM	868	C	GLN	54	8.743	-12.219	-1.098	1.00	0.00
ATOM	869	O	GLN	54	9.190	-13.245	-0.601	1.00	0.00
ATOM	870	N	GLU	55	7.508	-11.761	-0.863	1.00	0.00
ATOM	871	H	GLU	55	7.237	-10.865	-1.243	1.00	0.00
ATOM	872	CA	GLU	55	6.580	-12.447	-0.010	1.00	0.00
ATOM	873	HA	GLU	55	7.118	-12.963	0.785	1.00	0.00
ATOM	874	CB	GLU	55	5.616	-11.459	0.619	1.00	0.00
ATOM	875	HB2	GLU	55	4.918	-11.124	-0.149	1.00	0.00
ATOM	876	HB3	GLU	55	5.067	-11.971	1.409	1.00	0.00
ATOM	877	CG	GLU	55	6.343	-10.257	1.203	1.00	0.00
ATOM	878	HG2	GLU	55	7.274	-10.652	1.608	1.00	0.00
ATOM	879	HG3	GLU	55	6.567	-9.508	0.444	1.00	0.00
ATOM	880	CD	GLU	55	5.539	-9.624	2.314	1.00	0.00
ATOM	881	OE1	GLU	55	4.599	-10.247	2.841	1.00	0.00
ATOM	882	OE2	GLU	55	5.853	-8.459	2.560	1.00	0.00
ATOM	883	C	GLU	55	5.853	-13.542	-0.759	1.00	0.00
ATOM	884	O	GLU	55	4.817	-14.002	-0.321	1.00	0.00
ATOM	885	N	ASP	56	6.386	-13.990	-1.885	1.00	0.00
ATOM	886	H	ASP	56	7.275	-13.593	-2.153	1.00	0.00

ATOM	887	CA	ASP	56	5.799	-14.980	-2.740	1.00	0.00
ATOM	888	HA	ASP	56	6.550	-15.399	-3.410	1.00	0.00
ATOM	889	CB	ASP	56	5.224	-16.112	-1.881	1.00	0.00
ATOM	890	HB2	ASP	56	5.914	-16.144	-1.038	1.00	0.00
ATOM	891	HB3	ASP	56	4.226	-15.857	-1.525	1.00	0.00
ATOM	892	CG	ASP	56	5.187	-17.464	-2.552	1.00	0.00
ATOM	893	OD1	ASP	56	5.621	-17.551	-3.721	1.00	0.00
ATOM	894	OD2	ASP	56	4.632	-18.395	-1.934	1.00	0.00
ATOM	895	C	ASP	56	4.685	-14.361	-3.572	1.00	0.00
ATOM	896	O	ASP	56	4.459	-13.144	-3.599	1.00	0.00
ATOM	897	N	GLN	57	3.921	-15.220	-4.258	1.00	0.00
ATOM	898	H	GLN	57	4.151	-16.204	-4.250	1.00	0.00
ATOM	899	CA	GLN	57	2.805	-14.786	-5.060	1.00	0.00
ATOM	900	HA	GLN	57	2.975	-13.771	-5.419	1.00	0.00
ATOM	901	CB	GLN	57	2.638	-15.710	-6.267	1.00	0.00
ATOM	902	HB2	GLN	57	3.558	-16.276	-6.412	1.00	0.00
ATOM	903	HB3	GLN	57	1.815	-16.399	-6.077	1.00	0.00
ATOM	904	CG	GLN	57	2.339	-14.895	-7.524	1.00	0.00
ATOM	905	HG2	GLN	57	2.948	-13.991	-7.507	1.00	0.00
ATOM	906	HG3	GLN	57	2.570	-15.472	-8.420	1.00	0.00
ATOM	907	CD	GLN	57	0.885	-14.496	-7.570	1.00	0.00
ATOM	908	OE1	GLN	57	-0.006	-15.294	-7.714	1.00	0.00



ATOM	909	NE2	GLN	57	0.617	-13.223	-7.470	1.00	0.00
ATOM	910	HE21	GLN	57	-0.343	-12.909	-7.496	1.00	0.00
ATOM	911	HE22	GLN	57	1.370	-12.558	-7.367	1.00	0.00
ATOM	912	C	GLN	57	1.529	-14.745	-4.246	1.00	0.00
ATOM	913	O	GLN	57	0.598	-14.003	-4.539	1.00	0.00
ATOM	914	N	VAL	58	1.489	-15.521	-3.171	1.00	0.00
ATOM	915	H	VAL	58	2.267	-16.141	-2.997	1.00	0.00
ATOM	916	CA	VAL	58	0.345	-15.588	-2.282	1.00	0.00
ATOM	917	HA	VAL	58	-0.593	-15.578	-2.837	1.00	0.00
ATOM	918	CB	VAL	58	0.397	-16.863	-1.431	1.00	0.00
ATOM	919	HB	VAL	58	0.736	-16.609	-0.427	1.00	0.00
ATOM	920	CG1	VAL	58	-0.992	-17.504	-1.354	1.00	0.00
ATOM	921	HG11	VAL	58	-1.331	-17.759	-2.358	1.00	0.00
ATOM	922	HG12	VAL	58	-0.942	-18.409	-0.747	1.00	0.00
ATOM	923	HG13	VAL	58	-1.692	-16.802	-0.902	1.00	0.00
ATOM	924	CG2	VAL	58	1.404	-17.872	-1.993	1.00	0.00
ATOM	925	HG21	VAL	58	2.398	-17.426	-2.006	1.00	0.00
ATOM	926	HG22	VAL	58	1.415	-18.764	-1.366	1.00	0.00
ATOM	927	HG23	VAL	58	1.116	-18.147	-3.008	1.00	0.00
ATOM	928	C	VAL	58	0.300	-14.328	-1.439	1.00	0.00
ATOM	929	O	VAL	58	-0.643	-14.153	-0.670	1.00	0.00
ATOM	930	N	CYX	59	1.285	-13.442	-1.615	1.00	0.00

ATOM	931	H	CYX	59	2.024	-13.664	-2.266	1.00	0.00
ATOM	932	CA	CYX	59	1.360	-12.205	-0.899	1.00	0.00
ATOM	933	HA	CYX	59	0.530	-12.138	-0.196	1.00	0.00
ATOM	934	CB	CYX	59	2.650	-12.109	-0.130	1.00	0.00
ATOM	935	HB2	CYX	59	3.470	-12.473	-0.749	1.00	0.00
ATOM	936	HB3	CYX	59	2.835	-11.070	0.143	1.00	0.00
ATOM	937	SG	CYX	59	2.726	-13.083	1.417	1.00	0.00
ATOM	938	C	CYX	59	1.249	-11.055	-1.869	1.00	0.00
ATOM	939	O	CYX	59	0.664	-10.018	-1.541	1.00	0.00
ATOM	940	N	VAL	60	1.692	-11.266	-3.117	1.00	0.00
ATOM	941	H	VAL	60	2.160	-12.135	-3.331	1.00	0.00
ATOM	942	CA	VAL	60	1.590	-10.269	-4.158	1.00	0.00
ATOM	943	HA	VAL	60	2.206	-9.388	-3.982	1.00	0.00
ATOM	944	CB	VAL	60	1.981	-10.876	-5.500	1.00	0.00
ATOM	945	HB	VAL	60	1.628	-11.907	-5.535	1.00	0.00
ATOM	946	CG1	VAL	60	1.368	-10.090	-6.654	1.00	0.00
ATOM	947	HG11	VAL	60	1.721	-9.060	-6.621	1.00	0.00
ATOM	948	HG12	VAL	60	1.662	-10.544	-7.600	1.00	0.00
ATOM	949	HG13	VAL	60	0.281	-10.105	-6.567	1.00	0.00
ATOM	950	CG2	VAL	60	3.485	-10.973	-5.636	1.00	0.00
ATOM	951	HG21	VAL	60	3.882	-11.603	-4.840	1.00	0.00
ATOM	952	HG22	VAL	60	3.735	-11.410	-6.603	1.00	0.00

ATOM	953	HG23 VAL	60	3.922	-9.977	-5.564	1.00	0.00
ATOM	954	C VAL	60	0.190	-9.700	-4.188	1.00	0.00
ATOM	955	O VAL	60	-0.008	-8.575	-4.613	1.00	0.00
ATOM	956	N CYX	61	-0.802	-10.475	-3.757	1.00	0.00
ATOM	957	H CYX	61	-0.583	-11.439	-3.548	1.00	0.00
ATOM	958	CA CYX	61	-2.149	-10.053	-3.646	1.00	0.00
ATOM	959	HA CYX	61	-2.252	-9.327	-2.840	1.00	0.00
ATOM	960	CB CYX	61	-2.586	-9.399	-4.949	1.00	0.00
ATOM	961	HB2 CYX	61	-1.821	-9.556	-5.709	1.00	0.00
ATOM	962	HB3 CYX	61	-3.524	-9.843	-5.282	1.00	0.00
ATOM	963	SG CYX	61	-2.858	-7.609	-4.893	1.00	0.00
ATOM	964	C CYX	61	-3.012	-11.251	-3.270	1.00	0.00
ATOM	965	O CYX	61	-2.560	-12.374	-3.370	1.00	0.00
ATOM	966	N PRO	62	-4.261	-10.995	-2.847	1.00	0.00
ATOM	967	CD PRO	62	-5.270	-11.948	-2.430	1.00	0.00
ATOM	968	HD2 PRO	62	-4.916	-12.446	-1.527	1.00	0.00
ATOM	969	HD3 PRO	62	-5.394	-12.684	-3.225	1.00	0.00
ATOM	970	CG PRO	62	-6.544	-11.126	-2.189	1.00	0.00
ATOM	971	HG2 PRO	62	-6.828	-11.220	-1.141	1.00	0.00
ATOM	972	HG3 PRO	62	-7.341	-11.523	-2.818	1.00	0.00
ATOM	973	CB PRO	62	-6.231	-9.674	-2.555	1.00	0.00
ATOM	974	HB2 PRO	62	-6.577	-8.964	-1.805	1.00	0.00

ATOM	975	HB3 PRO	62	-6.667	-9.422	-3.522	1.00	0.00
ATOM	976	CA PRO	62	-4.720	-9.634	-2.643	1.00	0.00
ATOM	977	HA PRO	62	-4.485	-9.061	-3.540	1.00	0.00
ATOM	978	C PRO	62	-4.080	-8.990	-1.459	1.00	0.00
ATOM	979	O PRO	62	-4.367	-7.871	-1.165	1.00	0.00
ATOM	980	N THR	63	-3.248	-9.702	-0.744	1.00	0.00
ATOM	981	H THR	63	-3.155	-10.670	-1.018	1.00	0.00
ATOM	982	CA THR	63	-2.513	-9.245	0.409	1.00	0.00
ATOM	983	HA THR	63	-3.216	-9.338	1.237	1.00	0.00
ATOM	984	CB THR	63	-1.333	-10.177	0.665	1.00	0.00
ATOM	985	HB THR	63	-0.424	-9.669	0.343	1.00	0.00
ATOM	986	CG2 THR	63	-1.209	-10.555	2.117	1.00	0.00
ATOM	987	HG21 THR	63	-2.117	-11.064	2.439	1.00	0.00
ATOM	988	HG22 THR	63	-0.355	-11.219	2.248	1.00	0.00
ATOM	989	HG23 THR	63	-1.065	-9.656	2.716	1.00	0.00
ATOM	990	OG1 THR	63	-1.648	-11.400	0.012	1.00	0.00
ATOM	991	HG1 THR	63	-0.932	-12.027	0.143	1.00	0.00
ATOM	992	C THR	63	-2.043	-7.837	0.236	1.00	0.00
ATOM	993	O THR	63	-2.358	-7.060	1.113	1.00	0.00
ATOM	994	N LEU	64	-1.442	-7.488	-0.901	1.00	0.00
ATOM	995	H LEU	64	-1.256	-8.213	-1.580	1.00	0.00
ATOM	996	CA LEU	64	-1.002	-6.139	-1.197	1.00	0.00

ATOM	997	HA	LEU	64	-0.134	-5.885	-0.589	1.00	0.00
ATOM	998	CB	LEU	64	-0.613	-6.034	-2.670	1.00	0.00
ATOM	999	HB2	LEU	64	-0.432	-7.063	-2.980	1.00	0.00
ATOM	1000	HB3	LEU	64	-1.448	-5.626	-3.239	1.00	0.00
ATOM	1001	CG	LEU	64	0.643	-5.193	-2.931	1.00	0.00
ATOM	1002	HG	LEU	64	1.285	-5.233	-2.051	1.00	0.00
ATOM	1003	CD1	LEU	64	1.397	-5.723	-4.129	1.00	0.00
ATOM	1004	HD11	LEU	64	0.756	-5.683	-5.010	1.00	0.00
ATOM	1005	HD12	LEU	64	2.285	-5.114	-4.299	1.00	0.00
ATOM	1006	HD13	LEU	64	1.695	-6.755	-3.944	1.00	0.00
ATOM	1007	CD2	LEU	64	0.289	-3.722	-3.129	1.00	0.00
ATOM	1008	HD21	LEU	64	-0.204	-3.343	-2.234	1.00	0.00
ATOM	1009	HD22	LEU	64	1.199	-3.151	-3.312	1.00	0.00
ATOM	1010	HD23	LEU	64	-0.381	-3.621	-3.983	1.00	0.00
ATOM	1011	C	LEU	64	-2.077	-5.130	-0.869	1.00	0.00
ATOM	1012	O	LEU	64	-1.763	-4.112	-0.264	1.00	0.00
ATOM	1013	N	LYS	65	-3.348	-5.460	-1.159	1.00	0.00
ATOM	1014	H	LYS	65	-3.491	-6.281	-1.731	1.00	0.00
ATOM	1015	CA	LYS	65	-4.498	-4.667	-0.803	1.00	0.00
ATOM	1016	HA	LYS	65	-4.554	-3.798	-1.459	1.00	0.00
ATOM	1017	CB	LYS	65	-5.799	-5.470	-0.942	1.00	0.00
ATOM	1018	HB2	LYS	65	-5.913	-5.776	-1.982	1.00	0.00

ATOM	1019	HB3	LYS	65	-5.734	-6.355	-0.309	1.00	0.00
ATOM	1020	CG	LYS	65	-7.002	-4.634	-0.524	1.00	0.00
ATOM	1021	HG2	LYS	65	-6.739	-3.580	-0.611	1.00	0.00
ATOM	1022	HG3	LYS	65	-7.831	-4.858	-1.196	1.00	0.00
ATOM	1023	CD	LYS	65	-7.419	-4.939	0.921	1.00	0.00
ATOM	1024	HD2	LYS	65	-6.604	-5.459	1.424	1.00	0.00
ATOM	1025	HD3	LYS	65	-7.625	-4.002	1.437	1.00	0.00
ATOM	1026	CE	LYS	65	-8.671	-5.817	0.940	1.00	0.00
ATOM	1027	HE2	LYS	65	-9.233	-5.656	0.020	1.00	0.00
ATOM	1028	HE3	LYS	65	-8.372	-6.863	1.003	1.00	0.00
ATOM	1029	NZ	LYS	65	-9.518	-5.477	2.100	1.00	0.00
ATOM	1030	HZ1	LYS	65	-9.796	-4.508	2.041	1.00	0.00
ATOM	1031	HZ2	LYS	65	-10.340	-6.064	2.100	1.00	0.00
ATOM	1032	HZ3	LYS	65	-8.997	-5.627	2.952	1.00	0.00
ATOM	1033	C	LYS	65	-4.317	-4.096	0.585	1.00	0.00
ATOM	1034	O	LYS	65	-4.765	-3.018	0.824	1.00	0.00
ATOM	1035	N	GLN	66	-3.685	-4.792	1.509	1.00	0.00
ATOM	1036	H	GLN	66	-3.497	-5.754	1.265	1.00	0.00
ATOM	1037	CA	GLN	66	-3.331	-4.347	2.806	1.00	0.00
ATOM	1038	HA	GLN	66	-4.218	-3.971	3.316	1.00	0.00
ATOM	1039	CB	GLN	66	-2.735	-5.487	3.638	1.00	0.00
ATOM	1040	HB2	GLN	66	-3.442	-6.316	3.670	1.00	0.00

ATOM	1041	HB3	GLN	66	-1.805	-5.821	3.177	1.00	0.00
ATOM	1042	CG	GLN	66	-2.451	-4.999	5.071	1.00	0.00
ATOM	1043	HG2	GLN	66	-2.173	-5.808	5.747	1.00	0.00
ATOM	1044	HG3	GLN	66	-1.623	-4.295	4.988	1.00	0.00
ATOM	1045	CD	GLN	66	-3.656	-4.268	5.655	1.00	0.00
ATOM	1046	OE1	GLN	66	-3.543	-3.235	6.291	1.00	0.00
ATOM	1047	NE2	GLN	66	-4.844	-4.782	5.349	1.00	0.00
ATOM	1048	HE21	GLN	66	-5.685	-4.348	5.702	1.00	0.00
ATOM	1049	HE22	GLN	66	-4.900	-5.604	4.765	1.00	0.00
ATOM	1050	C	GLN	66	-2.385	-3.173	2.788	1.00	0.00
ATOM	1051	O	GLN	66	-2.776	-2.070	3.149	1.00	0.00
ATOM	1052	N	ALA	67	-1.130	-3.396	2.404	1.00	0.00
ATOM	1053	H	ALA	67	-0.831	-4.343	2.217	1.00	0.00
ATOM	1054	CA	ALA	67	-0.154	-2.337	2.302	1.00	0.00
ATOM	1055	HA	ALA	67	0.065	-1.926	3.287	1.00	0.00
ATOM	1056	CB	ALA	67	1.134	-2.897	1.711	1.00	0.00
ATOM	1057	HB1	ALA	67	0.933	-3.304	0.720	1.00	0.00
ATOM	1058	HB2	ALA	67	1.875	-2.101	1.633	1.00	0.00
ATOM	1059	HB3	ALA	67	1.517	-3.687	2.357	1.00	0.00
ATOM	1060	C	ALA	67	-0.707	-1.193	1.459	1.00	0.00
ATOM	1061	O	ALA	67	-0.329	-0.051	1.655	1.00	0.00
ATOM	1062	N	ALA	68	-1.684	-1.468	0.602	1.00	0.00

ATOM	1063	H	ALA	68	-1.959	-2.433	0.487	1.00	0.00
ATOM	1064	CA	ALA	68	-2.328	-0.477	-0.207	1.00	0.00
ATOM	1065	HA	ALA	68	-1.638	0.335	-0.438	1.00	0.00
ATOM	1066	CB	ALA	68	-2.766	-1.130	-1.512	1.00	0.00
ATOM	1067	HB1	ALA	68	-3.464	-1.939	-1.298	1.00	0.00
ATOM	1068	HB2	ALA	68	-3.254	-0.388	-2.145	1.00	0.00
ATOM	1069	HB3	ALA	68	-1.894	-1.531	-2.029	1.00	0.00
ATOM	1070	C	ALA	68	-3.507	0.141	0.531	1.00	0.00
ATOM	1071	O	ALA	68	-3.879	1.292	0.330	1.00	0.00
ATOM	1072	N	LYS	69	-4.119	-0.600	1.443	1.00	0.00
ATOM	1073	H	LYS	69	-3.820	-1.561	1.526	1.00	0.00
ATOM	1074	CA	LYS	69	-5.223	-0.159	2.246	1.00	0.00
ATOM	1075	HA	LYS	69	-5.925	0.399	1.626	1.00	0.00
ATOM	1076	CB	LYS	69	-5.961	-1.352	2.870	1.00	0.00
ATOM	1077	HB2	LYS	69	-6.319	-2.001	2.071	1.00	0.00
ATOM	1078	HB3	LYS	69	-5.265	-1.905	3.502	1.00	0.00
ATOM	1079	CG	LYS	69	-7.148	-0.878	3.712	1.00	0.00
ATOM	1080	HG2	LYS	69	-7.775	-1.739	3.946	1.00	0.00
ATOM	1081	HG3	LYS	69	-6.768	-0.444	4.637	1.00	0.00
ATOM	1082	CD	LYS	69	-7.979	0.171	2.957	1.00	0.00
ATOM	1083	HD2	LYS	69	-7.436	1.116	2.963	1.00	0.00
ATOM	1084	HD3	LYS	69	-8.111	-0.165	1.928	1.00	0.00



ATOM	1085	CE	LYS	69	-9.341	0.365	3.606	1.00	0.00
ATOM	1086	HE2	LYS	69	-10.069	-0.263	3.092	1.00	0.00
ATOM	1087	HE3	LYS	69	-9.279	0.066	4.652	1.00	0.00
ATOM	1088	NZ	LYS	69	-9.763	1.776	3.522	1.00	0.00
ATOM	1089	HZ1	LYS	69	-9.821	2.052	2.552	1.00	0.00
ATOM	1090	HZ2	LYS	69	-10.668	1.883	3.958	1.00	0.00
ATOM	1091	HZ3	LYS	69	-9.089	2.358	3.998	1.00	0.00
ATOM	1092	C	LYS	69	-4.712	0.812	3.281	1.00	0.00
ATOM	1093	O	LYS	69	-5.398	1.762	3.599	1.00	0.00
ATOM	1094	N	SER	70	-3.491	0.626	3.766	1.00	0.00
ATOM	1095	H	SER	70	-2.972	-0.189	3.472	1.00	0.00
ATOM	1096	CA	SER	70	-2.885	1.512	4.736	1.00	0.00
ATOM	1097	HA	SER	70	-3.653	2.128	5.204	1.00	0.00
ATOM	1098	CB	SER	70	-2.176	0.711	5.820	1.00	0.00
ATOM	1099	HB2	SER	70	-2.892	0.019	6.264	1.00	0.00
ATOM	1100	HB3	SER	70	-1.364	0.147	5.360	1.00	0.00
ATOM	1101	OG	SER	70	-1.650	1.560	6.829	1.00	0.00
ATOM	1102	HG	SER	70	-1.210	1.029	7.497	1.00	0.00
ATOM	1103	C	SER	70	-1.914	2.449	4.044	1.00	0.00
ATOM	1104	O	SER	70	-1.110	3.137	4.675	1.00	0.00
ATOM	1105	N	VAL	71	-1.974	2.502	2.708	1.00	0.00
ATOM	1106	H	VAL	71	-2.590	1.872	2.214	1.00	0.00

ATOM	1107	CA	VAL	71	-1.118	3.374	1.932	1.00	0.00
ATOM	1108	HA	VAL	71	-0.061	3.276	2.179	1.00	0.00
ATOM	1109	CB	VAL	71	-1.299	3.090	0.441	1.00	0.00
ATOM	1110	HB	VAL	71	-1.767	2.111	0.328	1.00	0.00
ATOM	1111	CG1	VAL	71	-2.162	4.138	-0.216	1.00	0.00
ATOM	1112	HG11	VAL	71	-1.695	5.116	-0.104	1.00	0.00
ATOM	1113	HG12	VAL	71	-2.271	3.907	-1.276	1.00	0.00
ATOM	1114	HG13	VAL	71	-3.144	4.148	0.256	1.00	0.00
ATOM	1115	CG2	VAL	71	0.032	2.972	-0.273	1.00	0.00
ATOM	1116	HG21	VAL	71	0.608	2.156	0.164	1.00	0.00
ATOM	1117	HG22	VAL	71	-0.139	2.770	-1.331	1.00	0.00
ATOM	1118	HG23	VAL	71	0.586	3.904	-0.167	1.00	0.00
ATOM	1119	C	VAL	71	-1.427	4.817	2.304	1.00	0.00
ATOM	1120	O	VAL	71	-0.717	5.741	1.966	1.00	0.00
ATOM	1121	N	ARG	72	-2.553	5.071	2.964	1.00	0.00
ATOM	1122	H	ARG	72	-3.186	4.306	3.151	1.00	0.00
ATOM	1123	CA	ARG	72	-2.932	6.389	3.394	1.00	0.00
ATOM	1124	HA	ARG	72	-2.054	6.958	3.699	1.00	0.00
ATOM	1125	CB	ARG	72	-3.608	7.118	2.230	1.00	0.00
ATOM	1126	HB2	ARG	72	-3.589	6.475	1.349	1.00	0.00
ATOM	1127	HB3	ARG	72	-4.642	7.334	2.499	1.00	0.00
ATOM	1128	CG	ARG	72	-2.878	8.424	1.923	1.00	0.00

ATOM	1129	HG2 ARG	72	-1.946	8.438	2.487	1.00	0.00
ATOM	1130	HG3 ARG	72	-2.657	8.452	0.856	1.00	0.00
ATOM	1131	CD ARG	72	-3.717	9.638	2.299	1.00	0.00
ATOM	1132	HD2 ARG	72	-4.450	9.818	1.512	1.00	0.00
ATOM	1133	HD3 ARG	72	-4.234	9.432	3.236	1.00	0.00
ATOM	1134	NE ARG	72	-2.902	10.845	2.467	1.00	0.00
ATOM	1135	HE ARG	72	-2.949	11.532	1.729	1.00	0.00
ATOM	1136	CZ ARG	72	-2.109	11.082	3.504	1.00	0.00
ATOM	1137	NH1 ARG	72	-2.050	10.225	4.499	1.00	0.00
ATOM	1138	HH11 ARG	72	-2.610	9.385	4.472	1.00	0.00
ATOM	1139	HH12 ARG	72	-1.445	10.410	5.286	1.00	0.00
ATOM	1140	NH2 ARG	72	-1.394	12.177	3.545	1.00	0.00
ATOM	1141	HH21 ARG	72	-1.448	12.840	2.785	1.00	0.00
ATOM	1142	HH22 ARG	72	-0.792	12.353	4.336	1.00	0.00
ATOM	1143	C ARG	72	-3.857	6.296	4.579	1.00	0.00
ATOM	1144	O ARG	72	-3.452	6.638	5.682	1.00	0.00
ATOM	1145	N VAL	73	-5.122	5.929	4.313	1.00	0.00
ATOM	1146	H VAL	73	-5.396	5.775	3.353	1.00	0.00
ATOM	1147	CA VAL	73	-6.134	5.828	5.338	1.00	0.00
ATOM	1148	HA VAL	73	-6.418	6.797	5.748	1.00	0.00
ATOM	1149	CB VAL	73	-7.382	5.156	4.765	1.00	0.00
ATOM	1150	HB VAL	73	-7.552	5.551	3.764	1.00	0.00

ATOM	1151	CG1 VAL	73	-7.234	3.643	4.694	1.00	0.00
ATOM	1152	HG11 VAL	73	-7.064	3.246	5.695	1.00	0.00
ATOM	1153	HG12 VAL	73	-8.144	3.207	4.281	1.00	0.00
ATOM	1154	HG13 VAL	73	-6.388	3.389	4.055	1.00	0.00
ATOM	1155	CG2 VAL	73	-8.621	5.521	5.586	1.00	0.00
ATOM	1156	HG21 VAL	73	-8.764	6.601	5.568	1.00	0.00
ATOM	1157	HG22 VAL	73	-9.497	5.031	5.160	1.00	0.00
ATOM	1158	HG23 VAL	73	-8.486	5.190	6.616	1.00	0.00
ATOM	1159	C VAL	73	-5.553	5.081	6.537	1.00	0.00
ATOM	1160	O VAL	73	-4.587	4.318	6.414	1.00	0.00
ATOM	1161	N GLN	74	-6.181	5.270	7.683	1.00	0.00
ATOM	1162	H GLN	74	-6.956	5.915	7.738	1.00	0.00
ATOM	1163	CA GLN	74	-5.737	4.625	8.901	1.00	0.00
ATOM	1164	HA GLN	74	-5.753	3.542	8.772	1.00	0.00
ATOM	1165	CB GLN	74	-4.307	5.056	9.247	1.00	0.00
ATOM	1166	HB2 GLN	74	-3.823	5.440	8.349	1.00	0.00
ATOM	1167	HB3 GLN	74	-4.344	5.840	10.003	1.00	0.00
ATOM	1168	CG GLN	74	-3.510	3.863	9.786	1.00	0.00
ATOM	1169	HG2 GLN	74	-4.204	3.176	10.271	1.00	0.00
ATOM	1170	HG3 GLN	74	-3.003	3.349	8.969	1.00	0.00
ATOM	1171	CD GLN	74	-2.468	4.302	10.805	1.00	0.00
ATOM	1172	OE1 GLN	74	-2.125	5.469	10.934	1.00	0.00

ATOM	1173	NE2	GLN	74	-1.937	3.335	11.531	1.00	0.00
ATOM	1174	HE21	GLN	74	-1.239	3.555	12.227	1.00	0.00
ATOM	1175	HE22	GLN	74	-2.232	2.379	11.387	1.00	0.00
ATOM	1176	C	GLN	74	-6.695	4.927	10.049	1.00	0.00
ATOM	1177	O	GLN	74	-6.299	5.103	11.195	1.00	0.00
ATOM	1178	N	GLY	75	-7.983	5.055	9.717	1.00	0.00
ATOM	1179	H	GLY	75	-8.264	4.950	8.752	1.00	0.00
ATOM	1180	CA	GLY	75	-9.004	5.342	10.702	1.00	0.00
ATOM	1181	HA2	GLY	75	-9.119	4.482	11.362	1.00	0.00
ATOM	1182	HA3	GLY	75	-8.705	6.211	11.287	1.00	0.00
ATOM	1183	C	GLY	75	-10.327	5.630	10.036	1.00	0.00
ATOM	1184	O	GLY	75	-11.315	4.954	10.306	1.00	0.00
ATOM	1185	N	GLN	76	-10.327	6.590	9.098	1.00	0.00
ATOM	1186	H	GLN	76	-9.475	7.096	8.905	1.00	0.00
ATOM	1187	CA	GLN	76	-11.529	6.973	8.387	1.00	0.00
ATOM	1188	HA	GLN	76	-11.841	6.154	7.739	1.00	0.00
ATOM	1189	CB	GLN	76	-12.674	7.296	9.355	1.00	0.00
ATOM	1190	HB2	GLN	76	-12.413	6.931	10.348	1.00	0.00
ATOM	1191	HB3	GLN	76	-12.816	8.376	9.390	1.00	0.00
ATOM	1192	CG	GLN	76	-13.970	6.627	8.890	1.00	0.00
ATOM	1193	HG2	GLN	76	-14.024	6.654	7.802	1.00	0.00
ATOM	1194	HG3	GLN	76	-13.997	5.591	9.228	1.00	0.00

ATOM	1195	CD	GLN	76	-15.178	7.353	9.454	1.00	0.00
ATOM	1196	OE1	GLN	76	-15.753	8.220	8.817	1.00	0.00
ATOM	1197	NE2	GLN	76	-15.550	6.988	10.664	1.00	0.00
ATOM	1198	HE21	GLN	76	-16.347	7.431	11.099	1.00	0.00
ATOM	1199	HE22	GLN	76	-15.037	6.267	11.151	1.00	0.00
ATOM	1200	C	GLN	76	-11.254	8.161	7.485	1.00	0.00
ATOM	1201	O	GLN	76	-11.075	9.288	7.934	1.00	0.00
ATOM	1202	N	HID	77	-11.137	7.893	6.186	1.00	0.00
ATOM	1203	H	HID	77	-11.121	6.930	5.882	1.00	0.00
ATOM	1204	CA	HID	77	-10.903	8.932	5.196	1.00	0.00
ATOM	1205	HA	HID	77	-11.072	9.916	5.633	1.00	0.00
ATOM	1206	CB	HID	77	-9.454	8.855	4.710	1.00	0.00
ATOM	1207	HB2	HID	77	-8.769	9.020	5.541	1.00	0.00
ATOM	1208	HB3	HID	77	-9.251	7.882	4.261	1.00	0.00
ATOM	1209	CG	HID	77	-9.123	9.888	3.667	1.00	0.00
ATOM	1210	ND1	HID	77	-8.503	11.090	3.932	1.00	0.00
ATOM	1211	HD1	HID	77	-8.209	11.412	4.843	1.00	0.00
ATOM	1212	CE1	HID	77	-8.358	11.758	2.771	1.00	0.00
ATOM	1213	HE1	HID	77	-7.877	12.736	2.756	1.00	0.00
ATOM	1214	NE2	HID	77	-8.882	11.018	1.779	1.00	0.00
ATOM	1215	CD2	HID	77	-9.358	9.835	2.315	1.00	0.00
ATOM	1216	HD2	HID	77	-9.813	9.086	1.666	1.00	0.00

ATOM	1217	C	HID	77	-11.935	8.834	4.079	1.00	0.00
ATOM	1218	O	HID	77	-11.824	9.502	3.062	1.00	0.00
ATOM	1219	N	GLY	78	-12.944	7.982	4.264	1.00	0.00
ATOM	1220	H	GLY	78	-13.000	7.459	5.126	1.00	0.00
ATOM	1221	CA	GLY	78	-13.968	7.776	3.272	1.00	0.00
ATOM	1222	HA2	GLY	78	-14.633	6.979	3.607	1.00	0.00
ATOM	1223	HA3	GLY	78	-14.538	8.697	3.153	1.00	0.00
ATOM	1224	C	GLY	78	-13.365	7.385	1.921	1.00	0.00
ATOM	1225	O	GLY	78	-12.142	7.209	1.766	1.00	0.00
ATOM	1226	N	PRO	79	-14.242	7.183	0.937	1.00	0.00
ATOM	1227	CD	PRO	79	-15.689	7.311	1.038	1.00	0.00
ATOM	1228	HD2	PRO	79	-15.925	8.362	1.200	1.00	0.00
ATOM	1229	HD3	PRO	79	-16.021	6.728	1.897	1.00	0.00
ATOM	1230	CG	PRO	79	-16.253	6.778	-0.283	1.00	0.00
ATOM	1231	HG2	PRO	79	-16.767	7.587	-0.801	1.00	0.00
ATOM	1232	HG3	PRO	79	-16.961	5.977	-0.069	1.00	0.00
ATOM	1233	CB	PRO	79	-15.066	6.255	-1.101	1.00	0.00
ATOM	1234	HB2	PRO	79	-15.099	6.597	-2.136	1.00	0.00
ATOM	1235	HB3	PRO	79	-15.034	5.165	-1.080	1.00	0.00
ATOM	1236	CA	PRO	79	-13.833	6.826	-0.404	1.00	0.00
ATOM	1237	HA	PRO	79	-13.109	6.014	-0.333	1.00	0.00
ATOM	1238	C	PRO	79	-13.210	7.994	-1.144	1.00	0.00

ATOM	1239	O	PRO	79	-13.912	8.844	-1.671	1.00	0.00
ATOM	1240	N	PHE	80	-11.872	8.033	-1.169	1.00	0.00
ATOM	1241	H	PHE	80	-11.334	7.298	-0.731	1.00	0.00
ATOM	1242	CA	PHE	80	-11.159	9.111	-1.818	1.00	0.00
ATOM	1243	HA	PHE	80	-11.718	9.500	-2.669	1.00	0.00
ATOM	1244	CB	PHE	80	-10.991	10.231	-0.791	1.00	0.00
ATOM	1245	HB2	PHE	80	-11.835	10.238	-0.101	1.00	0.00
ATOM	1246	HB3	PHE	80	-10.067	10.082	-0.233	1.00	0.00
ATOM	1247	CG	PHE	80	-10.914	11.608	-1.392	1.00	0.00
ATOM	1248	CD1	PHE	80	-12.084	12.249	-1.821	1.00	0.00
ATOM	1249	HD1	PHE	80	-13.045	11.745	-1.720	1.00	0.00
ATOM	1250	CE1	PHE	80	-12.021	13.536	-2.380	1.00	0.00
ATOM	1251	HE1	PHE	80	-12.937	14.026	-2.711	1.00	0.00
ATOM	1252	CZ	PHE	80	-10.788	14.190	-2.514	1.00	0.00
ATOM	1253	HZ	PHE	80	-10.733	15.187	-2.950	1.00	0.00
ATOM	1254	CE2	PHE	80	-9.618	13.548	-2.081	1.00	0.00
ATOM	1255	HE2	PHE	80	-8.657	14.052	-2.180	1.00	0.00
ATOM	1256	CD2	PHE	80	-9.682	12.262	-1.522	1.00	0.00
ATOM	1257	HD2	PHE	80	-8.770	11.767	-1.187	1.00	0.00
ATOM	1258	C	PHE	80	-9.796	8.645	-2.296	1.00	0.00
ATOM	1259	O	PHE	80	-9.500	8.611	-3.479	1.00	0.00
ATOM	1260	N	GLN	81	-8.948	8.248	-1.339	1.00	0.00



ATOM	1261	H	GLN	81	-9.254	8.249	-0.377	1.00	0.00
ATOM	1262	CA	GLN	81	-7.597	7.832	-1.627	1.00	0.00
ATOM	1263	HA	GLN	81	-7.139	8.549	-2.308	1.00	0.00
ATOM	1264	CB	GLN	81	-6.751	7.751	-0.363	1.00	0.00
ATOM	1265	HB2	GLN	81	-7.105	6.915	0.241	1.00	0.00
ATOM	1266	HB3	GLN	81	-5.713	7.578	-0.648	1.00	0.00
ATOM	1267	CG	GLN	81	-6.848	9.038	0.445	1.00	0.00
ATOM	1268	HG2	GLN	81	-5.994	9.665	0.189	1.00	0.00
ATOM	1269	HG3	GLN	81	-7.771	9.569	0.213	1.00	0.00
ATOM	1270	CD	GLN	81	-6.813	8.756	1.934	1.00	0.00
ATOM	1271	OE1	GLN	81	-7.137	7.693	2.431	1.00	0.00
ATOM	1272	NE2	GLN	81	-6.431	9.763	2.688	1.00	0.00
ATOM	1273	HE21	GLN	81	-6.383	9.649	3.690	1.00	0.00
ATOM	1274	HE22	GLN	81	-6.187	10.645	2.261	1.00	0.00
ATOM	1275	C	GLN	81	-7.666	6.492	-2.282	1.00	0.00
ATOM	1276	O	GLN	81	-7.214	6.407	-3.392	1.00	0.00
ATOM	1277	N	SER	82	-8.280	5.490	-1.641	1.00	0.00
ATOM	1278	H	SER	82	-8.679	5.677	-0.733	1.00	0.00
ATOM	1279	CA	SER	82	-8.398	4.147	-2.181	1.00	0.00
ATOM	1280	HA	SER	82	-7.467	3.603	-2.021	1.00	0.00
ATOM	1281	CB	SER	82	-9.530	3.389	-1.495	1.00	0.00
ATOM	1282	HB2	SER	82	-9.267	3.276	-0.444	1.00	0.00

ATOM	1283	HB3	SER	82	-10.434	3.991	-1.580	1.00	0.00
ATOM	1284	OG	SER	82	-9.757	2.121	-2.060	1.00	0.00
ATOM	1285	HG	SER	82	-10.476	1.687	-1.595	1.00	0.00
ATOM	1286	C	SER	82	-8.683	4.193	-3.665	1.00	0.00
ATOM	1287	O	SER	82	-7.980	3.569	-4.416	1.00	0.00
ATOM	1288	N	THR	83	-9.620	5.039	-4.081	1.00	0.00
ATOM	1289	H	THR	83	-10.187	5.514	-3.393	1.00	0.00
ATOM	1290	CA	THR	83	-9.942	5.222	-5.479	1.00	0.00
ATOM	1291	HA	THR	83	-10.521	4.355	-5.798	1.00	0.00
ATOM	1292	CB	THR	83	-10.809	6.471	-5.632	1.00	0.00
ATOM	1293	HB	THR	83	-10.634	7.098	-4.758	1.00	0.00
ATOM	1294	CG2	THR	83	-10.512	7.269	-6.898	1.00	0.00
ATOM	1295	HG21	THR	83	-10.687	6.642	-7.773	1.00	0.00
ATOM	1296	HG22	THR	83	-11.165	8.141	-6.940	1.00	0.00
ATOM	1297	HG23	THR	83	-9.472	7.594	-6.887	1.00	0.00
ATOM	1298	OG1	THR	83	-12.124	6.015	-5.756	1.00	0.00
ATOM	1299	HG1	THR	83	-12.715	6.765	-5.856	1.00	0.00
ATOM	1300	C	THR	83	-8.687	5.259	-6.341	1.00	0.00
ATOM	1301	O	THR	83	-8.362	4.298	-7.040	1.00	0.00
ATOM	1302	N	ARG	84	-7.930	6.359	-6.247	1.00	0.00
ATOM	1303	H	ARG	84	-8.210	7.101	-5.623	1.00	0.00
ATOM	1304	CA	ARG	84	-6.733	6.533	-7.016	1.00	0.00

ATOM	1305	HA	ARG	84	-6.930	6.287	-8.060	1.00	0.00
ATOM	1306	CB	ARG	84	-6.241	7.979	-6.939	1.00	0.00
ATOM	1307	HB2	ARG	84	-6.910	8.544	-6.290	1.00	0.00
ATOM	1308	HB3	ARG	84	-5.235	7.987	-6.519	1.00	0.00
ATOM	1309	CG	ARG	84	-6.218	8.620	-8.332	1.00	0.00
ATOM	1310	HG2	ARG	84	-7.247	8.804	-8.640	1.00	0.00
ATOM	1311	HG3	ARG	84	-5.684	9.568	-8.263	1.00	0.00
ATOM	1312	CD	ARG	84	-5.530	7.721	-9.364	1.00	0.00
ATOM	1313	HD2	ARG	84	-5.061	6.878	-8.856	1.00	0.00
ATOM	1314	HD3	ARG	84	-6.270	7.350	-10.074	1.00	0.00
ATOM	1315	NE	ARG	84	-4.495	8.461	-10.105	1.00	0.00
ATOM	1316	HE	ARG	84	-4.163	9.309	-9.668	1.00	0.00
ATOM	1317	CZ	ARG	84	-3.993	8.118	-11.274	1.00	0.00
ATOM	1318	NH1	ARG	84	-4.454	7.065	-11.908	1.00	0.00
ATOM	1319	HH11	ARG	84	-5.196	6.516	-11.497	1.00	0.00
ATOM	1320	HH12	ARG	84	-4.065	6.808	-12.804	1.00	0.00
ATOM	1321	NH2	ARG	84	-3.016	8.817	-11.804	1.00	0.00
ATOM	1322	HH21	ARG	84	-2.649	9.619	-11.313	1.00	0.00
ATOM	1323	HH22	ARG	84	-2.636	8.548	-12.701	1.00	0.00
ATOM	1324	C	ARG	84	-5.662	5.618	-6.497	1.00	0.00
ATOM	1325	O	ARG	84	-4.943	5.023	-7.280	1.00	0.00
ATOM	1326	N	ILE	85	-5.497	5.549	-5.184	1.00	0.00

ATOM	1327	H	ILE	85	-6.032	6.196	-4.623	1.00	0.00
ATOM	1328	CA	ILE	85	-4.549	4.695	-4.522	1.00	0.00
ATOM	1329	HA	ILE	85	-3.517	5.007	-4.682	1.00	0.00
ATOM	1330	CB	ILE	85	-4.831	4.612	-3.016	1.00	0.00
ATOM	1331	HB	ILE	85	-5.909	4.654	-2.859	1.00	0.00
ATOM	1332	CG2	ILE	85	-4.283	3.318	-2.428	1.00	0.00
ATOM	1333	HG21	ILE	85	-3.205	3.275	-2.584	1.00	0.00
ATOM	1334	HG22	ILE	85	-4.496	3.284	-1.360	1.00	0.00
ATOM	1335	HG23	ILE	85	-4.755	2.466	-2.919	1.00	0.00
ATOM	1336	CG1	ILE	85	-4.289	5.854	-2.287	1.00	0.00
ATOM	1337	HG12	ILE	85	-4.830	6.729	-2.646	1.00	0.00
ATOM	1338	HG13	ILE	85	-4.465	5.732	-1.218	1.00	0.00
ATOM	1339	CD1	ILE	85	-2.794	6.041	-2.539	1.00	0.00
ATOM	1340	HD11	ILE	85	-2.618	6.163	-3.608	1.00	0.00
ATOM	1341	HD12	ILE	85	-2.444	6.927	-2.010	1.00	0.00
ATOM	1342	HD13	ILE	85	-2.252	5.166	-2.180	1.00	0.00
ATOM	1343	C	ILE	85	-4.543	3.330	-5.181	1.00	0.00
ATOM	1344	O	ILE	85	-3.489	2.748	-5.332	1.00	0.00
ATOM	1345	N	TYR	86	-5.689	2.873	-5.660	1.00	0.00
ATOM	1346	H	TYR	86	-6.504	3.459	-5.550	1.00	0.00
ATOM	1347	CA	TYR	86	-5.837	1.629	-6.346	1.00	0.00
ATOM	1348	HA	TYR	86	-5.151	0.875	-5.960	1.00	0.00

ATOM	1349	CB	TYR	86	-7.263	1.156	-6.107	1.00	0.00
ATOM	1350	HB2	TYR	86	-7.883	2.051	-6.067	1.00	0.00
ATOM	1351	HB3	TYR	86	-7.555	0.549	-6.965	1.00	0.00
ATOM	1352	CG	TYR	86	-7.451	0.355	-4.835	1.00	0.00
ATOM	1353	CD1	TYR	86	-7.139	0.914	-3.584	1.00	0.00
ATOM	1354	HD1	TYR	86	-6.762	1.935	-3.538	1.00	0.00
ATOM	1355	CE1	TYR	86	-7.307	0.174	-2.404	1.00	0.00
ATOM	1356	HE1	TYR	86	-7.028	0.591	-1.437	1.00	0.00
ATOM	1357	CZ	TYR	86	-7.792	-1.139	-2.488	1.00	0.00
ATOM	1358	OH	TYR	86	-8.004	-1.832	-1.344	1.00	0.00
ATOM	1359	HH	TYR	86	-7.790	-1.329	-0.555	1.00	0.00
ATOM	1360	CE2	TYR	86	-8.107	-1.718	-3.729	1.00	0.00
ATOM	1361	HE2	TYR	86	-8.485	-2.739	-3.788	1.00	0.00
ATOM	1362	CD2	TYR	86	-7.929	-0.965	-4.905	1.00	0.00
ATOM	1363	HD2	TYR	86	-8.162	-1.406	-5.875	1.00	0.00
ATOM	1364	C	TYR	86	-5.630	1.796	-7.827	1.00	0.00
ATOM	1365	O	TYR	86	-4.963	0.994	-8.461	1.00	0.00
ATOM	1366	N	GLN	87	-6.135	2.879	-8.410	1.00	0.00
ATOM	1367	H	GLN	87	-6.695	3.507	-7.851	1.00	0.00
ATOM	1368	CA	GLN	87	-5.967	3.176	-9.808	1.00	0.00
ATOM	1369	HA	GLN	87	-6.297	2.327	-10.407	1.00	0.00
ATOM	1370	CB	GLN	87	-6.791	4.398	-10.199	1.00	0.00

ATOM	1371	HB2	GLN	87	-7.512	4.605	-9.409	1.00	0.00
ATOM	1372	HB3	GLN	87	-6.123	5.252	-10.314	1.00	0.00
ATOM	1373	CG	GLN	87	-7.533	4.151	-11.514	1.00	0.00
ATOM	1374	HG2	GLN	87	-6.915	4.212	-12.410	1.00	0.00
ATOM	1375	HG3	GLN	87	-7.908	3.134	-11.401	1.00	0.00
ATOM	1376	CD	GLN	87	-8.719	5.092	-11.675	1.00	0.00
ATOM	1377	OE1	GLN	87	-8.769	6.158	-11.072	1.00	0.00
ATOM	1378	NE2	GLN	87	-9.585	4.758	-12.597	1.00	0.00
ATOM	1379	HE21	GLN	87	-10.396	5.338	-12.758	1.00	0.00
ATOM	1380	HE22	GLN	87	-9.438	3.921	-13.144	1.00	0.00
ATOM	1381	C	GLN	87	-4.504	3.405	-10.137	1.00	0.00
ATOM	1382	O	GLN	87	-4.129	3.503	-11.299	1.00	0.00
ATOM	1383	N	ILE	88	-3.639	3.514	-9.143	1.00	0.00
ATOM	1384	H	ILE	88	-4.012	3.520	-8.204	1.00	0.00
ATOM	1385	CA	ILE	88	-2.226	3.696	-9.315	1.00	0.00
ATOM	1386	HA	ILE	88	-1.950	3.696	-10.370	1.00	0.00
ATOM	1387	CB	ILE	88	-1.800	5.019	-8.676	1.00	0.00
ATOM	1388	HB	ILE	88	-2.143	5.037	-7.642	1.00	0.00
ATOM	1389	CG2	ILE	88	-0.281	5.171	-8.711	1.00	0.00
ATOM	1390	HG21	ILE	88	0.063	5.153	-9.745	1.00	0.00
ATOM	1391	HG22	ILE	88	-0.000	6.118	-8.252	1.00	0.00
ATOM	1392	HG23	ILE	88	0.180	4.350	-8.161	1.00	0.00

ATOM	1393	CG1	ILE	88	-2.466	6.198	-9.390	1.00	0.00
ATOM	1394	HG12	ILE	88	-1.923	6.413	-10.310	1.00	0.00
ATOM	1395	HG13	ILE	88	-3.497	5.936	-9.630	1.00	0.00
ATOM	1396	CD1	ILE	88	-2.451	7.438	-8.485	1.00	0.00
ATOM	1397	HD11	ILE	88	-1.421	7.700	-8.245	1.00	0.00
ATOM	1398	HD12	ILE	88	-2.927	8.271	-9.002	1.00	0.00
ATOM	1399	HD13	ILE	88	-2.995	7.223	-7.565	1.00	0.00
ATOM	1400	C	ILE	88	-1.501	2.504	-8.725	1.00	0.00
ATOM	1401	O	ILE	88	-0.318	2.348	-8.938	1.00	0.00
ATOM	1402	N	ALA	89	-2.201	1.643	-8.007	1.00	0.00
ATOM	1403	H	ALA	89	-3.166	1.860	-7.800	1.00	0.00
ATOM	1404	CA	ALA	89	-1.634	0.445	-7.441	1.00	0.00
ATOM	1405	HA	ALA	89	-0.545	0.492	-7.468	1.00	0.00
ATOM	1406	CB	ALA	89	-2.079	0.324	-5.993	1.00	0.00
ATOM	1407	HB1	ALA	89	-3.167	0.266	-5.950	1.00	0.00
ATOM	1408	HB2	ALA	89	-1.651	-0.578	-5.555	1.00	0.00
ATOM	1409	HB3	ALA	89	-1.740	1.196	-5.434	1.00	0.00
ATOM	1410	C	ALA	89	-2.034	-0.763	-8.271	1.00	0.00
ATOM	1411	O	ALA	89	-1.698	-1.897	-7.942	1.00	0.00
ATOM	1412	N	LYS	90	-2.749	-0.523	-9.376	1.00	0.00
ATOM	1413	H	LYS	90	-3.054	0.422	-9.561	1.00	0.00
ATOM	1414	CA	LYS	90	-3.200	-1.576	-10.262	1.00	0.00

ATOM	1415	HA	LYS	90	-3.153	-2.537	-9.750	1.00	0.00
ATOM	1416	CB	LYS	90	-4.650	-1.322	-10.696	1.00	0.00
ATOM	1417	HB2	LYS	90	-5.167	-2.282	-10.712	1.00	0.00
ATOM	1418	HB3	LYS	90	-5.112	-0.673	-9.952	1.00	0.00
ATOM	1419	CG	LYS	90	-4.748	-0.672	-12.066	1.00	0.00
ATOM	1420	HG2	LYS	90	-4.165	-1.263	-12.773	1.00	0.00
ATOM	1421	HG3	LYS	90	-5.794	-0.668	-12.374	1.00	0.00
ATOM	1422	CD	LYS	90	-4.224	0.746	-12.041	1.00	0.00
ATOM	1423	HD2	LYS	90	-4.909	1.364	-11.460	1.00	0.00
ATOM	1424	HD3	LYS	90	-3.242	0.749	-11.568	1.00	0.00
ATOM	1425	CE	LYS	90	-4.109	1.307	-13.457	1.00	0.00
ATOM	1426	HE2	LYS	90	-3.684	0.538	-14.103	1.00	0.00
ATOM	1427	HE3	LYS	90	-5.107	1.566	-13.811	1.00	0.00
ATOM	1428	NZ	LYS	90	-3.251	2.504	-13.488	1.00	0.00
ATOM	1429	HZ1	LYS	90	-2.326	2.264	-13.161	1.00	0.00
ATOM	1430	HZ2	LYS	90	-3.193	2.852	-14.434	1.00	0.00
ATOM	1431	HZ3	LYS	90	-3.645	3.216	-12.891	1.00	0.00
ATOM	1432	C	LYS	90	-2.243	-1.696	-11.419	1.00	0.00
ATOM	1433	O	LYS	90	-2.261	-2.670	-12.153	1.00	0.00
ATOM	1434	N	ASN	91	-1.439	-0.647	-11.637	1.00	0.00
ATOM	1435	H	ASN	91	-1.536	0.168	-11.049	1.00	0.00
ATOM	1436	CA	ASN	91	-0.457	-0.618	-12.684	1.00	0.00



ATOM	1437	HA	ASN	91	-0.778	-1.255	-13.509	1.00	0.00
ATOM	1438	CB	ASN	91	-0.274	0.807	-13.209	1.00	0.00
ATOM	1439	HB2	ASN	91	0.604	0.795	-13.854	1.00	0.00
ATOM	1440	HB3	ASN	91	-1.143	1.125	-13.785	1.00	0.00
ATOM	1441	CG	ASN	91	-0.043	1.798	-12.100	1.00	0.00
ATOM	1442	OD1	ASN	91	0.599	1.497	-11.123	1.00	0.00
ATOM	1443	ND2	ASN	91	-0.628	2.971	-12.252	1.00	0.00
ATOM	1444	HD21	ASN	91	-0.515	3.683	-11.545	1.00	0.00
ATOM	1445	HD22	ASN	91	-1.186	3.150	-13.075	1.00	0.00
ATOM	1446	C	ASN	91	0.881	-1.141	-12.171	1.00	0.00
ATOM	1447	O	ASN	91	1.877	-1.106	-12.885	1.00	0.00
ATOM	1448	N	LEU	92	0.916	-1.544	-10.905	1.00	0.00
ATOM	1449	H	LEU	92	0.097	-1.415	-10.328	1.00	0.00
ATOM	1450	CA	LEU	92	2.098	-2.094	-10.297	1.00	0.00
ATOM	1451	HA	LEU	92	2.970	-1.499	-10.567	1.00	0.00
ATOM	1452	CB	LEU	92	1.950	-2.083	-8.769	1.00	0.00
ATOM	1453	HB2	LEU	92	0.873	-2.066	-8.604	1.00	0.00
ATOM	1454	HB3	LEU	92	2.368	-2.996	-8.344	1.00	0.00
ATOM	1455	CG	LEU	92	2.590	-0.865	-8.093	1.00	0.00
ATOM	1456	HG	LEU	92	2.408	0.019	-8.704	1.00	0.00
ATOM	1457	CD1	LEU	92	1.989	-0.655	-6.701	1.00	0.00
ATOM	1458	HD11	LEU	92	2.171	-1.539	-6.089	1.00	0.00

ATOM	1459	HD12	LEU	92	2.452	0.213	-6.232	1.00	0.00
ATOM	1460	HD13	LEU	92	0.915	-0.490	-6.790	1.00	0.00
ATOM	1461	CD2	LEU	92	4.106	-1.009	-8.024	1.00	0.00
ATOM	1462	HD21	LEU	92	4.509	-1.100	-9.033	1.00	0.00
ATOM	1463	HD22	LEU	92	4.533	-0.131	-7.540	1.00	0.00
ATOM	1464	HD23	LEU	92	4.361	-1.900	-7.450	1.00	0.00
ATOM	1465	C	LEU	92	2.354	-3.493	-10.827	1.00	0.00
ATOM	1466	O	LEU	92	3.436	-3.752	-11.312	1.00	0.00
ATOM	1467	N	PRO	93	1.338	-4.370	-10.816	1.00	0.00
ATOM	1468	CD	PRO	93	-0.006	-4.119	-10.323	1.00	0.00
ATOM	1469	HD2	PRO	93	-0.467	-3.389	-10.988	1.00	0.00
ATOM	1470	HD3	PRO	93	0.086	-3.693	-9.324	1.00	0.00
ATOM	1471	CG	PRO	93	-0.737	-5.444	-10.320	1.00	0.00
ATOM	1472	HG2	PRO	93	-1.577	-5.393	-11.013	1.00	0.00
ATOM	1473	HG3	PRO	93	-1.108	-5.648	-9.316	1.00	0.00
ATOM	1474	CB	PRO	93	0.281	-6.502	-10.752	1.00	0.00
ATOM	1475	HB2	PRO	93	-0.130	-7.177	-11.503	1.00	0.00
ATOM	1476	HB3	PRO	93	0.619	-7.079	-9.892	1.00	0.00
ATOM	1477	CA	PRO	93	1.450	-5.716	-11.345	1.00	0.00
ATOM	1478	HA	PRO	93	2.367	-6.156	-10.952	1.00	0.00
ATOM	1479	C	PRO	93	1.485	-5.746	-12.863	1.00	0.00
ATOM	1480	O	PRO	93	1.608	-6.813	-13.460	1.00	0.00

ATOM	1481	N	ASN	94	1.378	-4.563	-13.473	1.00	0.00
ATOM	1482	H	ASN	94	1.275	-3.724	-12.920	1.00	0.00
ATOM	1483	CA	ASN	94	1.409	-4.437	-14.900	1.00	0.00
ATOM	1484	HA	ASN	94	0.972	-5.322	-15.363	1.00	0.00
ATOM	1485	CB	ASN	94	0.604	-3.211	-15.334	1.00	0.00
ATOM	1486	HB2	ASN	94	0.834	-2.376	-14.673	1.00	0.00
ATOM	1487	HB3	ASN	94	0.884	-2.953	-16.355	1.00	0.00
ATOM	1488	CG	ASN	94	-0.885	-3.466	-15.291	1.00	0.00
ATOM	1489	OD1	ASN	94	-1.361	-4.586	-15.224	1.00	0.00
ATOM	1490	ND2	ASN	94	-1.642	-2.384	-15.323	1.00	0.00
ATOM	1491	HD21	ASN	94	-2.648	-2.474	-15.298	1.00	0.00
ATOM	1492	HD22	ASN	94	-1.212	-1.472	-15.373	1.00	0.00
ATOM	1493	C	ASN	94	2.838	-4.274	-15.376	1.00	0.00
ATOM	1494	O	ASN	94	3.225	-4.817	-16.403	1.00	0.00
ATOM	1495	N	VAL	95	3.620	-3.501	-14.620	1.00	0.00
ATOM	1496	H	VAL	95	3.224	-3.022	-13.824	1.00	0.00
ATOM	1497	CA	VAL	95	5.013	-3.261	-14.943	1.00	0.00
ATOM	1498	HA	VAL	95	5.274	-3.626	-15.937	1.00	0.00
ATOM	1499	CB	VAL	95	5.302	-1.760	-14.881	1.00	0.00
ATOM	1500	HB	VAL	95	5.167	-1.420	-13.854	1.00	0.00
ATOM	1501	CG1	VAL	95	6.729	-1.458	-15.334	1.00	0.00
ATOM	1502	HG11	VAL	95	6.864	-1.798	-16.361	1.00	0.00

ATOM	1503	HG12	VAL	95	6.908	-0.385	-15.280	1.00	0.00
ATOM	1504	HG13	VAL	95	7.434	-1.977	-14.685	1.00	0.00
ATOM	1505	CG2	VAL	95	4.300	-0.982	-15.746	1.00	0.00
ATOM	1506	HG21	VAL	95	3.288	-1.163	-15.382	1.00	0.00
ATOM	1507	HG22	VAL	95	4.521	0.083	-15.690	1.00	0.00
ATOM	1508	HG23	VAL	95	4.378	-1.315	-16.781	1.00	0.00
ATOM	1509	C	VAL	95	5.910	-4.052	-14.003	1.00	0.00
ATOM	1510	O	VAL	95	7.117	-4.118	-14.185	1.00	0.00
ATOM	1511	N	CYX	96	5.305	-4.711	-13.019	1.00	0.00
ATOM	1512	H	CYX	96	4.308	-4.599	-12.907	1.00	0.00
ATOM	1513	CA	CYX	96	6.014	-5.503	-12.054	1.00	0.00
ATOM	1514	HA	CYX	96	7.053	-5.599	-12.369	1.00	0.00
ATOM	1515	CB	CYX	96	5.982	-4.878	-10.659	1.00	0.00
ATOM	1516	HB2	CYX	96	4.979	-4.970	-10.242	1.00	0.00
ATOM	1517	HB3	CYX	96	6.692	-5.394	-10.013	1.00	0.00
ATOM	1518	SG	CYX	96	6.403	-3.143	-10.624	1.00	0.00
ATOM	1519	C	CYX	96	5.434	-6.879	-12.074	1.00	0.00
ATOM	1520	O	CYX	96	5.308	-7.413	-10.998	1.00	0.00
ATOM	1521	N	ASN	97	5.057	-7.402	-13.252	1.00	0.00
ATOM	1522	H	ASN	97	5.186	-6.836	-14.078	1.00	0.00
ATOM	1523	CA	ASN	97	4.480	-8.720	-13.407	1.00	0.00
ATOM	1524	HA	ASN	97	3.393	-8.645	-13.432	1.00	0.00

ATOM	1525	CB	ASN	97	4.954	-9.368	-14.708	1.00	0.00
ATOM	1526	HB2	ASN	97	5.936	-8.987	-14.988	1.00	0.00
ATOM	1527	HB3	ASN	97	5.016	-10.444	-14.543	1.00	0.00
ATOM	1528	CG	ASN	97	3.998	-9.110	-15.840	1.00	0.00
ATOM	1529	OD1	ASN	97	3.267	-9.980	-16.283	1.00	0.00
ATOM	1530	ND2	ASN	97	3.988	-7.874	-16.289	1.00	0.00
ATOM	1531	HD21	ASN	97	3.372	-7.621	-17.049	1.00	0.00
ATOM	1532	HD22	ASN	97	4.596	-7.184	-15.872	1.00	0.00
ATOM	1533	C	ASN	97	4.876	-9.639	-12.253	1.00	0.00
ATOM	1534	O	ASN	97	5.979	-10.186	-12.247	1.00	0.00
ATOM	1535	N	MET	98	4.007	-9.718	-11.248	1.00	0.00
ATOM	1536	H	MET	98	3.132	-9.216	-11.300	1.00	0.00
ATOM	1537	CA	MET	98	4.307	-10.448	-10.037	1.00	0.00
ATOM	1538	HA	MET	98	5.155	-11.109	-10.219	1.00	0.00
ATOM	1539	CB	MET	98	4.656	-9.513	-8.881	1.00	0.00
ATOM	1540	HB2	MET	98	4.995	-10.113	-8.036	1.00	0.00
ATOM	1541	HB3	MET	98	5.458	-8.847	-9.199	1.00	0.00
ATOM	1542	CG	MET	98	3.445	-8.686	-8.463	1.00	0.00
ATOM	1543	HG2	MET	98	2.581	-9.035	-9.028	1.00	0.00
ATOM	1544	HG3	MET	98	3.271	-8.847	-7.399	1.00	0.00
ATOM	1545	SD	MET	98	3.678	-6.941	-8.763	1.00	0.00
ATOM	1546	CE	MET	98	2.345	-6.246	-7.829	1.00	0.00

ATOM	1547	HE1	MET	98	2.453	-6.523	-6.780	1.00	0.00
ATOM	1548	HE2	MET	98	2.363	-5.160	-7.922	1.00	0.00
ATOM	1549	HE3	MET	98	1.397	-6.627	-8.209	1.00	0.00
ATOM	1550	C	MET	98	3.132	-11.329	-9.694	1.00	0.00
ATOM	1551	O	MET	98	3.061	-11.897	-8.614	1.00	0.00
ATOM	1552	N	LYS	99	2.148	-11.409	-10.598	1.00	0.00
ATOM	1553	H	LYS	99	2.195	-10.800	-11.403	1.00	0.00
ATOM	1554	CA	LYS	99	0.959	-12.193	-10.406	1.00	0.00
ATOM	1555	HA	LYS	99	1.159	-13.019	-9.723	1.00	0.00
ATOM	1556	CB	LYS	99	-0.149	-11.316	-9.804	1.00	0.00
ATOM	1557	HB2	LYS	99	-0.079	-11.367	-8.718	1.00	0.00
ATOM	1558	HB3	LYS	99	0.008	-10.288	-10.130	1.00	0.00
ATOM	1559	CG	LYS	99	-1.541	-11.787	-10.249	1.00	0.00
ATOM	1560	HG2	LYS	99	-1.476	-12.821	-10.589	1.00	0.00
ATOM	1561	HG3	LYS	99	-2.225	-11.726	-9.403	1.00	0.00
ATOM	1562	CD	LYS	99	-2.064	-10.900	-11.398	1.00	0.00
ATOM	1563	HD2	LYS	99	-2.781	-10.188	-10.990	1.00	0.00
ATOM	1564	HD3	LYS	99	-1.223	-10.360	-11.832	1.00	0.00
ATOM	1565	CE	LYS	99	-2.747	-11.749	-12.489	1.00	0.00
ATOM	1566	HE2	LYS	99	-2.584	-12.803	-12.262	1.00	0.00
ATOM	1567	HE3	LYS	99	-3.816	-11.536	-12.477	1.00	0.00
ATOM	1568	NZ	LYS	99	-2.199	-11.443	-13.828	1.00	0.00

ATOM	1569	HZ1	LYS	99	-1.209	-11.641	-13.840	1.00	0.00
ATOM	1570	HZ2	LYS	99	-2.664	-12.013	-14.520	1.00	0.00
ATOM	1571	HZ3	LYS	99	-2.350	-10.467	-14.039	1.00	0.00
ATOM	1572	C	LYS	99	0.623	-12.884	-11.708	1.00	0.00
ATOM	1573	O	LYS	99	-0.066	-12.351	-12.554	1.00	0.00
ATOM	1574	N	GLN	100	1.128	-14.076	-11.917	1.00	0.00
ATOM	1575	H	GLN	100	1.771	-14.481	-11.252	1.00	0.00
ATOM	1576	CA	GLN	100	0.832	-14.817	-13.121	1.00	0.00
ATOM	1577	HA	GLN	100	0.900	-14.164	-13.991	1.00	0.00
ATOM	1578	CB	GLN	100	1.840	-15.960	-13.286	1.00	0.00
ATOM	1579	HB2	GLN	100	2.749	-15.717	-12.736	1.00	0.00
ATOM	1580	HB3	GLN	100	1.408	-16.878	-12.886	1.00	0.00
ATOM	1581	CG	GLN	100	2.178	-16.158	-14.768	1.00	0.00
ATOM	1582	HG2	GLN	100	2.311	-15.166	-15.199	1.00	0.00
ATOM	1583	HG3	GLN	100	3.100	-16.729	-14.879	1.00	0.00
ATOM	1584	CD	GLN	100	1.068	-16.874	-15.528	1.00	0.00
ATOM	1585	OE1	GLN	100	0.008	-17.183	-15.022	1.00	0.00
ATOM	1586	NE2	GLN	100	1.332	-17.192	-16.773	1.00	0.00
ATOM	1587	HE21	GLN	100	0.635	-17.668	-17.328	1.00	0.00
ATOM	1588	HE22	GLN	100	2.231	-16.960	-17.171	1.00	0.00
ATOM	1589	C	GLN	100	-0.592	-15.348	-13.083	1.00	0.00
ATOM	1590	O	GLN	100	-1.353	-15.137	-14.020	1.00	0.00

ATOM	1591	N	ILE	101	-0.943	-15.991	-11.969	1.00	0.00
ATOM	1592	H	ILE	101	-0.245	-16.180	-11.264	1.00	0.00
ATOM	1593	CA	ILE	101	-2.260	-16.541	-11.789	1.00	0.00
ATOM	1594	HA	ILE	101	-2.569	-17.154	-12.636	1.00	0.00
ATOM	1595	CB	ILE	101	-2.338	-17.375	-10.497	1.00	0.00
ATOM	1596	HB	ILE	101	-1.912	-18.360	-10.687	1.00	0.00
ATOM	1597	CG2	ILE	101	-1.569	-16.698	-9.373	1.00	0.00
ATOM	1598	HG21	ILE	101	-1.995	-15.713	-9.183	1.00	0.00
ATOM	1599	HG22	ILE	101	-1.637	-17.304	-8.470	1.00	0.00
ATOM	1600	HG23	ILE	101	-0.523	-16.592	-9.661	1.00	0.00
ATOM	1601	CG1	ILE	101	-3.793	-17.650	-10.083	1.00	0.00
ATOM	1602	HG12	ILE	101	-3.812	-18.510	-9.413	1.00	0.00
ATOM	1603	HG13	ILE	101	-4.182	-16.776	-9.562	1.00	0.00
ATOM	1604	CD1	ILE	101	-4.662	-17.941	-11.313	1.00	0.00
ATOM	1605	HD11	ILE	101	-4.273	-18.816	-11.834	1.00	0.00
ATOM	1606	HD12	ILE	101	-5.687	-18.133	-10.997	1.00	0.00
ATOM	1607	HD13	ILE	101	-4.644	-17.082	-11.983	1.00	0.00
ATOM	1608	C	ILE	101	-3.291	-15.410	-11.852	1.00	0.00
ATOM	1609	O	ILE	101	-3.815	-15.076	-12.909	1.00	0.00
ATOM	1610	N	GLY	102	-3.590	-14.795	-10.703	1.00	0.00
ATOM	1611	H	GLY	102	-3.097	-15.061	-9.862	1.00	0.00
ATOM	1612	CA	GLY	102	-4.588	-13.766	-10.611	1.00	0.00



ATOM	1613	HA2	GLY	102	-4.121	-12.804	-10.822	1.00	0.00
ATOM	1614	HA3	GLY	102	-5.364	-13.963	-11.351	1.00	0.00
ATOM	1615	C	GLY	102	-5.216	-13.716	-9.245	1.00	0.00
ATOM	1616	O	GLY	102	-6.314	-14.182	-9.010	1.00	0.00
ATOM	1617	N	THR	103	-4.503	-13.124	-8.307	1.00	0.00
ATOM	1618	H	THR	103	-3.587	-12.777	-8.552	1.00	0.00
ATOM	1619	CA	THR	103	-4.936	-13.013	-6.919	1.00	0.00
ATOM	1620	HA	THR	103	-5.494	-13.925	-6.705	1.00	0.00
ATOM	1621	CB	THR	103	-3.696	-12.976	-6.022	1.00	0.00
ATOM	1622	HB	THR	103	-3.712	-12.047	-5.453	1.00	0.00
ATOM	1623	CG2	THR	103	-3.659	-14.161	-5.060	1.00	0.00
ATOM	1624	HG21	THR	103	-3.643	-15.091	-5.629	1.00	0.00
ATOM	1625	HG22	THR	103	-2.764	-14.099	-4.441	1.00	0.00
ATOM	1626	HG23	THR	103	-4.543	-14.141	-4.423	1.00	0.00
ATOM	1627	OG1	THR	103	-2.544	-13.153	-6.846	1.00	0.00
ATOM	1628	HG1	THR	103	-1.754	-13.133	-6.301	1.00	0.00
ATOM	1629	C	THR	103	-5.815	-11.789	-6.753	1.00	0.00
ATOM	1630	O	THR	103	-6.933	-11.886	-6.249	1.00	0.00
ATOM	1631	N	CYX	104	-5.327	-10.630	-7.216	1.00	0.00
ATOM	1632	H	CYX	104	-4.368	-10.593	-7.531	1.00	0.00
ATOM	1633	CA	CYX	104	-6.089	-9.397	-7.187	1.00	0.00
ATOM	1634	HA	CYX	104	-7.128	-9.609	-6.935	1.00	0.00

ATOM	1635	CB	CYX	104	-5.515	-8.442	-6.136	1.00	0.00
ATOM	1636	HB2	CYX	104	-6.238	-7.654	-5.927	1.00	0.00
ATOM	1637	HB3	CYX	104	-5.305	-8.994	-5.220	1.00	0.00
ATOM	1638	SG	CYX	104	-3.940	-7.595	-6.552	1.00	0.00
ATOM	1639	C	CYX	104	-6.125	-8.795	-8.584	1.00	0.00
ATOM	1640	O	CYX	104	-5.514	-7.768	-8.853	1.00	0.00
ATOM	1641	N	PRO	105	-6.791	-9.472	-9.521	1.00	0.00
ATOM	1642	CD	PRO	105	-7.524	-10.712	-9.324	1.00	0.00
ATOM	1643	HD2	PRO	105	-8.375	-10.497	-8.677	1.00	0.00
ATOM	1644	HD3	PRO	105	-6.859	-11.418	-8.826	1.00	0.00
ATOM	1645	CG	PRO	105	-7.948	-11.191	-10.710	1.00	0.00
ATOM	1646	HG2	PRO	105	-9.037	-11.207	-10.764	1.00	0.00
ATOM	1647	HG3	PRO	105	-7.563	-12.198	-10.873	1.00	0.00
ATOM	1648	CB	PRO	105	-7.352	-10.208	-11.720	1.00	0.00
ATOM	1649	HB2	PRO	105	-8.077	-9.898	-12.472	1.00	0.00
ATOM	1650	HB3	PRO	105	-6.486	-10.650	-12.212	1.00	0.00
ATOM	1651	CA	PRO	105	-6.920	-9.003	-10.887	1.00	0.00
ATOM	1652	HA	PRO	105	-5.928	-8.723	-11.242	1.00	0.00
ATOM	1653	C	PRO	105	-7.857	-7.810	-11.006	1.00	0.00
ATOM	1654	O	PRO	105	-8.805	-7.813	-11.781	1.00	0.00
ATOM	1655	N	PHE	106	-7.608	-6.785	-10.201	1.00	0.00
ATOM	1656	H	PHE	106	-6.808	-6.834	-9.587	1.00	0.00

ATOM	1657	CA	PHE	106	-8.414	-5.598	-10.175	1.00	0.00
ATOM	1658	HA	PHE	106	-9.450	-5.821	-10.431	1.00	0.00
ATOM	1659	CB	PHE	106	-8.372	-5.039	-8.757	1.00	0.00
ATOM	1660	HB2	PHE	106	-9.304	-4.536	-8.500	1.00	0.00
ATOM	1661	HB3	PHE	106	-8.204	-5.866	-8.067	1.00	0.00
ATOM	1662	CG	PHE	106	-7.257	-4.038	-8.515	1.00	0.00
ATOM	1663	CD1	PHE	106	-5.933	-4.471	-8.352	1.00	0.00
ATOM	1664	HD1	PHE	106	-5.711	-5.538	-8.397	1.00	0.00
ATOM	1665	CE1	PHE	106	-4.904	-3.552	-8.134	1.00	0.00
ATOM	1666	HE1	PHE	106	-3.872	-3.890	-8.035	1.00	0.00
ATOM	1667	CZ	PHE	106	-5.205	-2.194	-8.044	1.00	0.00
ATOM	1668	HZ	PHE	106	-4.418	-1.479	-7.806	1.00	0.00
ATOM	1669	CE2	PHE	106	-6.514	-1.748	-8.258	1.00	0.00
ATOM	1670	HE2	PHE	106	-6.733	-0.681	-8.241	1.00	0.00
ATOM	1671	CD2	PHE	106	-7.538	-2.666	-8.493	1.00	0.00
ATOM	1672	HD2	PHE	106	-8.557	-2.316	-8.660	1.00	0.00
ATOM	1673	C	PHE	106	-7.878	-4.565	-11.119	1.00	0.00
ATOM	1674	O	PHE	106	-6.681	-4.598	-11.395	1.00	0.00
ATOM	1675	N	ILE	107	-8.739	-3.640	-11.546	1.00	0.00
ATOM	1676	H	ILE	107	-9.699	-3.691	-11.237	1.00	0.00
ATOM	1677	CA	ILE	107	-8.375	-2.601	-12.492	1.00	0.00
ATOM	1678	HA	ILE	107	-7.767	-1.823	-12.031	1.00	0.00

ATOM	1679	CB	ILE	107	-7.630	-3.178	-13.716	1.00	0.00
ATOM	1680	HB	ILE	107	-7.944	-2.637	-14.609	1.00	0.00
ATOM	1681	CG2	ILE	107	-6.110	-3.036	-13.539	1.00	0.00
ATOM	1682	HG21	ILE	107	-5.796	-3.578	-12.647	1.00	0.00
ATOM	1683	HG22	ILE	107	-5.602	-3.448	-14.411	1.00	0.00
ATOM	1684	HG23	ILE	107	-5.853	-1.982	-13.434	1.00	0.00
ATOM	1685	CG1	ILE	107	-8.030	-4.645	-13.991	1.00	0.00
ATOM	1686	HG12	ILE	107	-7.319	-5.299	-13.485	1.00	0.00
ATOM	1687	HG13	ILE	107	-9.028	-4.813	-13.587	1.00	0.00
ATOM	1688	CD1	ILE	107	-8.028	-4.949	-15.469	1.00	0.00
ATOM	1689	HD11	ILE	107	-7.030	-4.782	-15.874	1.00	0.00
ATOM	1690	HD12	ILE	107	-8.314	-5.989	-15.627	1.00	0.00
ATOM	1691	HD13	ILE	107	-8.739	-4.297	-15.976	1.00	0.00
ATOM	1692	C	ILE	107	-9.607	-1.840	-12.930	1.00	0.00
ATOM	1693	O	ILE	107	-9.524	-0.627	-13.065	1.00	0.00
ATOM	1694	N	ALA	108	-10.722	-2.549	-13.142	1.00	0.00
ATOM	1695	H	ALA	108	-10.676	-3.557	-13.091	1.00	0.00
ATOM	1696	CA	ALA	108	-11.977	-1.939	-13.517	1.00	0.00
ATOM	1697	HA	ALA	108	-11.816	-1.220	-14.320	1.00	0.00
ATOM	1698	CB	ALA	108	-12.932	-3.022	-14.016	1.00	0.00
ATOM	1699	HB1	ALA	108	-13.111	-3.745	-13.220	1.00	0.00
ATOM	1700	HB2	ALA	108	-13.877	-2.566	-14.311	1.00	0.00

ATOM	1701	HB3	ALA	108	-12.491	-3.529	-14.874	1.00	0.00
ATOM	1702	C	ALA	108	-12.560	-1.157	-12.341	1.00	0.00
ATOM	1703	O	ALA	108	-13.599	-1.516	-11.800	1.00	0.00
ATOM	1704	N	ILE	109	-11.871	-0.103	-11.933	1.00	0.00
ATOM	1705	H	ILE	109	-10.985	0.065	-12.387	1.00	0.00
ATOM	1706	CA	ILE	109	-12.233	0.728	-10.808	1.00	0.00
ATOM	1707	HA	ILE	109	-13.280	0.607	-10.528	1.00	0.00
ATOM	1708	CB	ILE	109	-11.340	0.444	-9.588	1.00	0.00
ATOM	1709	HB	ILE	109	-11.206	1.367	-9.025	1.00	0.00
ATOM	1710	CG2	ILE	109	-11.984	-0.618	-8.683	1.00	0.00
ATOM	1711	HG21	ILE	109	-12.118	-1.542	-9.245	1.00	0.00
ATOM	1712	HG22	ILE	109	-11.338	-0.806	-7.826	1.00	0.00
ATOM	1713	HG23	ILE	109	-12.953	-0.261	-8.336	1.00	0.00
ATOM	1714	CG1	ILE	109	-9.915	0.034	-9.987	1.00	0.00
ATOM	1715	HG12	ILE	109	-9.382	-0.300	-9.097	1.00	0.00
ATOM	1716	HG13	ILE	109	-9.972	-0.785	-10.704	1.00	0.00
ATOM	1717	CD1	ILE	109	-9.171	1.206	-10.614	1.00	0.00
ATOM	1718	HD11	ILE	109	-9.113	2.025	-9.898	1.00	0.00
ATOM	1719	HD12	ILE	109	-8.164	0.892	-10.889	1.00	0.00
ATOM	1720	HD13	ILE	109	-9.703	1.540	-11.505	1.00	0.00
ATOM	1721	C	ILE	109	-12.237	2.203	-11.239	1.00	0.00
ATOM	1722	O	ILE	109	-13.264	2.863	-11.053	1.00	0.00

ATOM 1723 OXT ILE 109 -11.224 2.698 -11.767 1.00 0.00

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ATOM 1724 CI1 LIG 110 20.727 -12.783 -6.849 1.00 0.00

ATOM 1725 CI2 LIG 110 21.737 -15.481 -7.475 1.00 0.00

ATOM 1726 P1 LIG 110 19.590 -16.829 -3.628 1.00 0.00

ATOM 1727 O1 LIG 110 19.110 -18.296 -4.030 1.00 0.00

ATOM 1728 O2 LIG 110 20.906 -17.121 -2.794 1.00 0.00

ATOM 1729 O3 LIG 110 20.119 -16.279 -5.088 1.00 0.00

ATOM 1730 O4 LIG 110 18.637 -15.916 -2.981 1.00 0.00

ATOM 1731 C1 LIG 110 17.916 -18.510 -4.816 1.00 0.00

ATOM 1732 H1 LIG 110 17.753 -19.586 -4.823 1.00 0.00

ATOM 1733 H2 LIG 110 18.070 -18.149 -5.834 1.00 0.00

ATOM 1734 H3 LIG 110 17.065 -18.006 -4.356 1.00 0.00

ATOM 1735 C2 LIG 110 21.967 -17.992 -3.250 1.00 0.00

ATOM 1736 H4 LIG 110 22.348 -17.651 -4.214 1.00 0.00

ATOM 1737 H5 LIG 110 21.600 -19.015 -3.327 1.00 0.00

ATOM 1738 H6 LIG 110 22.747 -17.925 -2.495 1.00 0.00

ATOM 1739 C3 LIG 110 20.106 -14.941 -5.390 1.00 0.00

ATOM 1740 H7 LIG 110 19.510 -14.300 -4.752 1.00 0.00

ATOM 1741 C4 LIG 110 20.779 -14.473 -6.438 1.00 0.00

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ATOM 1742 CI1 LIG 111 18.772 -13.594 20.693 1.00 0.00

ATOM	1743	Cl2	LIG	111	15.946	-13.070	20.038	1.00	0.00
ATOM	1744	P1	LIG	111	17.215	-13.520	15.633	1.00	0.00
ATOM	1745	O1	LIG	111	15.918	-14.198	14.997	1.00	0.00
ATOM	1746	O2	LIG	111	17.023	-11.995	15.246	1.00	0.00
ATOM	1747	O3	LIG	111	16.840	-13.608	17.235	1.00	0.00
ATOM	1748	O4	LIG	111	18.539	-14.075	15.321	1.00	0.00
ATOM	1749	C1	LIG	111	15.677	-15.619	15.111	1.00	0.00
ATOM	1750	H1	LIG	111	14.814	-15.826	14.482	1.00	0.00
ATOM	1751	H2	LIG	111	15.453	-15.877	16.148	1.00	0.00
ATOM	1752	H3	LIG	111	16.542	-16.179	14.755	1.00	0.00
ATOM	1753	C2	LIG	111	15.796	-11.260	15.467	1.00	0.00
ATOM	1754	H4	LIG	111	15.522	-11.291	16.522	1.00	0.00
ATOM	1755	H5	LIG	111	14.997	-11.679	14.854	1.00	0.00
ATOM	1756	H6	LIG	111	16.008	-10.238	15.164	1.00	0.00
ATOM	1757	C3	LIG	111	17.822	-13.674	18.190	1.00	0.00
ATOM	1758	H7	LIG	111	18.820	-13.922	17.853	1.00	0.00
ATOM	1759	C4	LIG	111	17.537	-13.466	19.474	1.00	0.00
TER									
ATOM	1760	Cl1	LIG	112	-4.189	-4.328	17.766	1.00	0.00
ATOM	1761	Cl2	LIG	112	-2.350	-6.630	17.850	1.00	0.00
ATOM	1762	P1	LIG	112	-5.854	-9.084	16.142	1.00	0.00
ATOM	1763	O1	LIG	112	-5.086	-10.123	15.205	1.00	0.00

ATOM	1764	O2	LIG	112	-6.115	-9.939	17.451	1.00	0.00
ATOM	1765	O3	LIG	112	-4.618	-8.067	16.531	1.00	0.00
ATOM	1766	O4	LIG	112	-7.032	-8.382	15.615	1.00	0.00
ATOM	1767	C1	LIG	112	-4.645	-9.760	13.877	1.00	0.00
ATOM	1768	H1	LIG	112	-4.285	-10.679	13.421	1.00	0.00
ATOM	1769	H2	LIG	112	-3.835	-9.031	13.940	1.00	0.00
ATOM	1770	H3	LIG	112	-5.478	-9.357	13.300	1.00	0.00
ATOM	1771	C2	LIG	112	-5.091	-10.706	18.125	1.00	0.00
ATOM	1772	H4	LIG	112	-4.257	-10.060	18.405	1.00	0.00
ATOM	1773	H5	LIG	112	-4.745	-11.513	17.478	1.00	0.00
ATOM	1774	H6	LIG	112	-5.566	-11.112	19.015	1.00	0.00
ATOM	1775	C3	LIG	112	-4.852	-6.752	16.839	1.00	0.00
ATOM	1776	H7	LIG	112	-5.822	-6.350	16.572	1.00	0.00
ATOM	1777	C4	LIG	112	-3.910	-6.009	17.415	1.00	0.00
TER									
ATOM	1778	Cl1	LIG	113	21.716	23.789	-1.963	1.00	0.00
ATOM	1779	Cl2	LIG	113	20.936	23.210	0.820	1.00	0.00
ATOM	1780	P1	LIG	113	16.602	23.170	-0.741	1.00	0.00
ATOM	1781	O1	LIG	113	15.944	22.045	0.179	1.00	0.00
ATOM	1782	O2	LIG	113	16.150	24.505	-0.016	1.00	0.00
ATOM	1783	O3	LIG	113	18.191	22.984	-0.347	1.00	0.00
ATOM	1784	O4	LIG	113	16.361	23.140	-2.190	1.00	0.00



ATOM	1785	C1	LIG	113	16.103	20.639	-0.118	1.00	0.00
ATOM	1786	H1	LIG	113	15.450	20.112	0.574	1.00	0.00
ATOM	1787	H2	LIG	113	17.140	20.339	0.045	1.00	0.00
ATOM	1788	H3	LIG	113	15.802	20.434	-1.146	1.00	0.00
ATOM	1789	C2	LIG	113	16.296	24.735	1.404	1.00	0.00
ATOM	1790	H4	LIG	113	17.341	24.627	1.700	1.00	0.00
ATOM	1791	H5	LIG	113	15.670	24.036	1.960	1.00	0.00
ATOM	1792	H6	LIG	113	15.963	25.757	1.572	1.00	0.00
ATOM	1793	C3	LIG	113	19.184	23.307	-1.235	1.00	0.00
ATOM	1794	H7	LIG	113	18.895	23.442	-2.269	1.00	0.00
ATOM	1795	C4	LIG	113	20.448	23.422	-0.831	1.00	0.00
TER									
ATOM	1796	Cl1	LIG	114	19.549	13.893	-15.675	1.00	0.00
ATOM	1797	Cl2	LIG	114	19.922	13.966	-18.598	1.00	0.00
ATOM	1798	P1	LIG	114	16.879	10.512	-18.752	1.00	0.00
ATOM	1799	O1	LIG	114	16.113	10.824	-20.116	1.00	0.00
ATOM	1800	O2	LIG	114	17.913	9.395	-19.194	1.00	0.00
ATOM	1801	O3	LIG	114	17.772	11.887	-18.591	1.00	0.00
ATOM	1802	O4	LIG	114	16.097	10.190	-17.550	1.00	0.00
ATOM	1803	C1	LIG	114	15.055	11.808	-20.180	1.00	0.00
ATOM	1804	H1	LIG	114	14.625	11.719	-21.175	1.00	0.00
ATOM	1805	H2	LIG	114	15.468	12.808	-20.040	1.00	0.00

ATOM	1806	H3	LIG	114	14.298	11.598	-19.424	1.00	0.00
ATOM	1807	C2	LIG	114	18.776	9.514	-20.349	1.00	0.00
ATOM	1808	H4	LIG	114	19.390	10.413	-20.272	1.00	0.00
ATOM	1809	H5	LIG	114	18.176	9.540	-21.259	1.00	0.00
ATOM	1810	H6	LIG	114	19.406	8.628	-20.337	1.00	0.00
ATOM	1811	C3	LIG	114	18.155	12.343	-17.357	1.00	0.00
ATOM	1812	H7	LIG	114	17.645	11.925	-16.498	1.00	0.00
ATOM	1813	C4	LIG	114	19.094	13.279	-17.238	1.00	0.00
TER									
ATOM	1814	Cl1	LIG	115	-16.545	18.034	8.585	1.00	0.00
ATOM	1815	Cl2	LIG	115	-18.625	19.760	9.760	1.00	0.00
ATOM	1816	P1	LIG	115	-21.594	16.441	8.583	1.00	0.00
ATOM	1817	O1	LIG	115	-22.645	16.516	9.780	1.00	0.00
ATOM	1818	O2	LIG	115	-22.323	17.263	7.441	1.00	0.00
ATOM	1819	O3	LIG	115	-20.420	17.445	9.155	1.00	0.00
ATOM	1820	O4	LIG	115	-21.076	15.130	8.167	1.00	0.00
ATOM	1821	C1	LIG	115	-22.385	15.883	11.054	1.00	0.00
ATOM	1822	H1	LIG	115	-23.307	15.972	11.624	1.00	0.00
ATOM	1823	H2	LIG	115	-21.576	16.402	11.570	1.00	0.00
ATOM	1824	H3	LIG	115	-22.134	14.832	10.909	1.00	0.00
ATOM	1825	C2	LIG	115	-22.904	18.573	7.643	1.00	0.00
ATOM	1826	H4	LIG	115	-22.150	19.268	8.016	1.00	0.00

ATOM	1827	H5	LIG	115	-23.737	18.505	8.344	1.00	0.00
ATOM	1828	H6	LIG	115	-23.257	18.891	6.665	1.00	0.00
ATOM	1829	C3	LIG	115	-19.110	17.289	8.783	1.00	0.00
ATOM	1830	H7	LIG	115	-18.839	16.349	8.318	1.00	0.00
ATOM	1831	C4	LIG	115	-18.217	18.249	9.015	1.00	0.00
TER									
ATOM	1832	Cl1	LIG	116	-17.227	-3.718	17.615	1.00	0.00
ATOM	1833	Cl2	LIG	116	-18.189	-1.641	15.758	1.00	0.00
ATOM	1834	P1	LIG	116	-22.418	-2.762	17.197	1.00	0.00
ATOM	1835	O1	LIG	116	-23.153	-1.347	17.154	1.00	0.00
ATOM	1836	O2	LIG	116	-22.888	-3.428	15.837	1.00	0.00
ATOM	1837	O3	LIG	116	-20.860	-2.296	16.932	1.00	0.00
ATOM	1838	O4	LIG	116	-22.570	-3.612	18.386	1.00	0.00
ATOM	1839	C1	LIG	116	-23.004	-0.387	18.225	1.00	0.00
ATOM	1840	H1	LIG	116	-23.708	0.413	18.008	1.00	0.00
ATOM	1841	H2	LIG	116	-21.985	0.005	18.234	1.00	0.00
ATOM	1842	H3	LIG	116	-23.245	-0.849	19.183	1.00	0.00
ATOM	1843	C2	LIG	116	-22.825	-2.761	14.555	1.00	0.00
ATOM	1844	H4	LIG	116	-21.803	-2.444	14.343	1.00	0.00
ATOM	1845	H5	LIG	116	-23.498	-1.902	14.550	1.00	0.00
ATOM	1846	H6	LIG	116	-23.148	-3.499	13.824	1.00	0.00
ATOM	1847	C3	LIG	116	-19.809	-3.031	17.413	1.00	0.00

ATOM	1848	H7	LIG	116	-20.031	-3.769	18.174	1.00	0.00
ATOM	1849	C4	LIG	116	-18.570	-2.817	16.973	1.00	0.00
TER									
ATOM	1850	Cl1	LIG	117	-17.659	-19.072	-17.285	1.00	0.00
ATOM	1851	Cl2	LIG	117	-17.437	-20.884	-14.971	1.00	0.00
ATOM	1852	P1	LIG	117	-14.337	-23.190	-17.480	1.00	0.00
ATOM	1853	O1	LIG	117	-13.320	-23.682	-16.353	1.00	0.00
ATOM	1854	O2	LIG	117	-15.232	-24.477	-17.712	1.00	0.00
ATOM	1855	O3	LIG	117	-15.279	-22.163	-16.601	1.00	0.00
ATOM	1856	O4	LIG	117	-13.806	-22.577	-18.705	1.00	0.00
ATOM	1857	C1	LIG	117	-12.297	-22.807	-15.826	1.00	0.00
ATOM	1858	H1	LIG	117	-11.672	-23.429	-15.188	1.00	0.00
ATOM	1859	H2	LIG	117	-12.755	-22.011	-15.237	1.00	0.00
ATOM	1860	H3	LIG	117	-11.702	-22.388	-16.639	1.00	0.00
ATOM	1861	C2	LIG	117	-15.847	-25.230	-16.640	1.00	0.00
ATOM	1862	H4	LIG	117	-16.486	-24.581	-16.041	1.00	0.00
ATOM	1863	H5	LIG	117	-15.077	-25.685	-16.017	1.00	0.00
ATOM	1864	H6	LIG	117	-16.444	-25.998	-17.126	1.00	0.00
ATOM	1865	C3	LIG	117	-15.915	-21.103	-17.192	1.00	0.00
ATOM	1866	H7	LIG	117	-15.578	-20.817	-18.181	1.00	0.00
ATOM	1867	C4	LIG	117	-16.882	-20.447	-16.555	1.00	0.00
TER									

ATOM	1868	CI1	LIG	118	20.074	-3.003	-1.149	1.00	0.00
ATOM	1869	CI2	LIG	118	22.024	-4.270	-2.959	1.00	0.00
ATOM	1870	P1	LIG	118	20.480	-1.338	-6.158	1.00	0.00
ATOM	1871	O1	LIG	118	21.810	-1.044	-6.988	1.00	0.00
ATOM	1872	O2	LIG	118	19.758	-2.429	-7.053	1.00	0.00
ATOM	1873	O3	LIG	118	21.104	-2.172	-4.882	1.00	0.00
ATOM	1874	O4	LIG	118	19.628	-0.212	-5.749	1.00	0.00
ATOM	1875	C1	LIG	118	22.790	-0.085	-6.528	1.00	0.00
ATOM	1876	H1	LIG	118	23.510	0.017	-7.337	1.00	0.00
ATOM	1877	H2	LIG	118	23.285	-0.459	-5.631	1.00	0.00
ATOM	1878	H3	LIG	118	22.313	0.876	-6.329	1.00	0.00
ATOM	1879	C2	LIG	118	20.417	-3.612	-7.562	1.00	0.00
ATOM	1880	H4	LIG	118	20.837	-4.194	-6.740	1.00	0.00
ATOM	1881	H5	LIG	118	21.201	-3.326	-8.265	1.00	0.00
ATOM	1882	H6	LIG	118	19.644	-4.183	-8.070	1.00	0.00
ATOM	1883	C3	LIG	118	20.486	-2.162	-3.658	1.00	0.00
ATOM	1884	H7	LIG	118	19.735	-1.400	-3.492	1.00	0.00
ATOM	1885	C4	LIG	118	20.824	-3.042	-2.718	1.00	0.00
TER									
ATOM	1886	CI1	LIG	119	-4.692	15.153	10.549	1.00	0.00
ATOM	1887	CI2	LIG	119	-5.886	17.384	12.061	1.00	0.00
ATOM	1888	P1	LIG	119	-3.555	15.756	15.685	1.00	0.00

ATOM	1889	O1	LIG	119	-3.184	17.103	16.454	1.00	0.00
ATOM	1890	O2	LIG	119	-4.824	15.248	16.488	1.00	0.00
ATOM	1891	O3	LIG	119	-4.153	16.372	14.279	1.00	0.00
ATOM	1892	O4	LIG	119	-2.512	14.743	15.472	1.00	0.00
ATOM	1893	C1	LIG	119	-2.059	17.918	16.050	1.00	0.00
ATOM	1894	H1	LIG	119	-1.955	18.683	16.816	1.00	0.00
ATOM	1895	H2	LIG	119	-2.264	18.381	15.084	1.00	0.00
ATOM	1896	H3	LIG	119	-1.153	17.312	16.000	1.00	0.00
ATOM	1897	C2	LIG	119	-5.959	16.086	16.806	1.00	0.00
ATOM	1898	H4	LIG	119	-6.387	16.506	15.894	1.00	0.00
ATOM	1899	H5	LIG	119	-5.654	16.883	17.484	1.00	0.00
ATOM	1900	H6	LIG	119	-6.680	15.432	17.290	1.00	0.00
ATOM	1901	C3	LIG	119	-4.088	15.661	13.109	1.00	0.00
ATOM	1902	H7	LIG	119	-3.417	14.811	13.086	1.00	0.00
ATOM	1903	C4	LIG	119	-4.806	16.027	12.049	1.00	0.00
TER									
END									

**Table J:** The number of atoms present in the system of BN-Nap

ATOM	1	N	GLN	1	-10.822	-8.568	3.550	1.00	0.00
ATOM	2	H1	GLN	1	-9.891	-8.899	3.759	1.00	0.00
ATOM	3	H2	GLN	1	-11.053	-7.822	4.190	1.00	0.00

ATOM	4	H3	GLN	1	-10.899	-8.421	2.554	1.00	0.00
ATOM	5	CA	GLN	1	-11.767	-9.646	3.856	1.00	0.00
ATOM	6	HA	GLN	1	-12.469	-9.308	4.618	1.00	0.00
ATOM	7	CB	GLN	1	-12.560	-10.062	2.609	1.00	0.00
ATOM	8	HB2	GLN	1	-12.263	-9.428	1.774	1.00	0.00
ATOM	9	HB3	GLN	1	-12.330	-11.102	2.375	1.00	0.00
ATOM	10	CG	GLN	1	-14.060	-9.915	2.850	1.00	0.00
ATOM	11	HG2	GLN	1	-14.675	-10.722	2.451	1.00	0.00
ATOM	12	HG3	GLN	1	-14.136	-9.904	3.937	1.00	0.00
ATOM	13	CD	GLN	1	-14.585	-8.594	2.313	1.00	0.00
ATOM	14	OE1	GLN	1	-14.943	-7.693	3.053	1.00	0.00
ATOM	15	NE2	GLN	1	-14.481	-8.434	1.007	1.00	0.00
ATOM	16	HE21	GLN	1	-14.809	-7.581	0.578	1.00	0.00
ATOM	17	HE22	GLN	1	-14.074	-9.166	0.442	1.00	0.00
ATOM	18	C	GLN	1	-11.035	-10.849	4.440	1.00	0.00
ATOM	19	O	GLN	1	-11.387	-11.329	5.508	1.00	0.00
ATOM	20	N	PRO	2	-9.977	-11.300	3.744	1.00	0.00
ATOM	21	CD	PRO	2	-9.481	-10.776	2.473	1.00	0.00
ATOM	22	HD2	PRO	2	-9.076	-9.782	2.663	1.00	0.00
ATOM	23	HD3	PRO	2	-10.331	-10.698	1.796	1.00	0.00
ATOM	24	CG	PRO	2	-8.427	-11.749	1.970	1.00	0.00
ATOM	25	HG2	PRO	2	-7.462	-11.244	1.929	1.00	0.00

ATOM	26	HG3 PRO	2	-8.701	-12.090	0.971	1.00	0.00
ATOM	27	CB PRO	2	-8.404	-12.915	2.957	1.00	0.00
ATOM	28	HB2 PRO	2	-7.384	-13.176	3.240	1.00	0.00
ATOM	29	HB3 PRO	2	-8.898	-13.790	2.535	1.00	0.00
ATOM	30	CA PRO	2	-9.173	-12.422	4.181	1.00	0.00
ATOM	31	HA PRO	2	-9.843	-13.228	4.480	1.00	0.00
ATOM	32	C PRO	2	-8.283	-12.056	5.337	1.00	0.00
ATOM	33	O PRO	2	-7.294	-11.375	5.125	1.00	0.00
ATOM	34	N GLN	3	-8.629	-12.519	6.542	1.00	0.00
ATOM	35	H GLN	3	-9.452	-13.097	6.637	1.00	0.00
ATOM	36	CA GLN	3	-7.861	-12.217	7.731	1.00	0.00
ATOM	37	HA GLN	3	-7.787	-11.137	7.854	1.00	0.00
ATOM	38	CB GLN	3	-8.527	-12.805	8.974	1.00	0.00
ATOM	39	HB2 GLN	3	-9.578	-12.994	8.755	1.00	0.00
ATOM	40	HB3 GLN	3	-8.035	-13.745	9.226	1.00	0.00
ATOM	41	CG GLN	3	-8.418	-11.836	10.159	1.00	0.00
ATOM	42	HG2 GLN	3	-7.972	-12.380	10.992	1.00	0.00
ATOM	43	HG3 GLN	3	-7.788	-10.984	9.903	1.00	0.00
ATOM	44	CD GLN	3	-9.775	-11.323	10.588	1.00	0.00
ATOM	45	OE1 GLN	3	-10.395	-11.837	11.498	1.00	0.00
ATOM	46	NE2 GLN	3	-10.241	-10.311	9.878	1.00	0.00
ATOM	47	HE21 GLN	3	-11.141	-9.913	10.103	1.00	0.00



ATOM	48	HE22	GLN	3	-9.695	-9.941	9.113	1.00	0.00
ATOM	49	C	GLN	3	-6.479	-12.794	7.607	1.00	0.00
ATOM	50	O	GLN	3	-5.538	-12.217	8.079	1.00	0.00
ATOM	51	N	LYS	4	-6.313	-13.908	6.902	1.00	0.00
ATOM	52	H	LYS	4	-7.129	-14.390	6.553	1.00	0.00
ATOM	53	CA	LYS	4	-5.009	-14.515	6.686	1.00	0.00
ATOM	54	HA	LYS	4	-4.658	-14.994	7.600	1.00	0.00
ATOM	55	CB	LYS	4	-5.116	-15.577	5.588	1.00	0.00
ATOM	56	HB2	LYS	4	-4.284	-16.273	5.699	1.00	0.00
ATOM	57	HB3	LYS	4	-6.056	-16.113	5.717	1.00	0.00
ATOM	58	CG	LYS	4	-5.074	-14.948	4.186	1.00	0.00
ATOM	59	HG2	LYS	4	-5.283	-13.882	4.274	1.00	0.00
ATOM	60	HG3	LYS	4	-4.077	-15.090	3.768	1.00	0.00
ATOM	61	CD	LYS	4	-6.108	-15.595	3.266	1.00	0.00
ATOM	62	HD2	LYS	4	-7.071	-15.617	3.777	1.00	0.00
ATOM	63	HD3	LYS	4	-6.193	-15.000	2.357	1.00	0.00
ATOM	64	CE	LYS	4	-5.692	-17.020	2.904	1.00	0.00
ATOM	65	HE2	LYS	4	-5.491	-17.073	1.834	1.00	0.00
ATOM	66	HE3	LYS	4	-4.789	-17.280	3.456	1.00	0.00
ATOM	67	NZ	LYS	4	-6.768	-17.967	3.249	1.00	0.00
ATOM	68	HZ1	LYS	4	-7.605	-17.727	2.737	1.00	0.00
ATOM	69	HZ2	LYS	4	-6.482	-18.905	3.005	1.00	0.00

ATOM	70	HZ3	LYS	4	-6.954	-17.919	4.240	1.00	0.00
ATOM	71	C	LYS	4	-3.955	-13.443	6.357	1.00	0.00
ATOM	72	O	LYS	4	-2.812	-13.607	6.721	1.00	0.00
ATOM	73	N	CYX	5	-4.399	-12.344	5.721	1.00	0.00
ATOM	74	H	CYX	5	-5.359	-12.311	5.409	1.00	0.00
ATOM	75	CA	CYX	5	-3.560	-11.227	5.445	1.00	0.00
ATOM	76	HA	CYX	5	-2.543	-11.423	5.784	1.00	0.00
ATOM	77	CB	CYX	5	-3.533	-10.982	3.959	1.00	0.00
ATOM	78	HB2	CYX	5	-4.124	-11.746	3.453	1.00	0.00
ATOM	79	HB3	CYX	5	-3.951	-9.999	3.745	1.00	0.00
ATOM	80	SG	CYX	5	-1.867	-11.060	3.233	1.00	0.00
ATOM	81	C	CYX	5	-4.072	-10.021	6.163	1.00	0.00
ATOM	82	O	CYX	5	-3.316	-9.264	6.689	1.00	0.00
ATOM	83	N	GLN	6	-5.382	-9.830	6.286	1.00	0.00
ATOM	84	H	GLN	6	-5.996	-10.468	5.799	1.00	0.00
ATOM	85	CA	GLN	6	-5.972	-8.725	7.005	1.00	0.00
ATOM	86	HA	GLN	6	-5.561	-7.785	6.637	1.00	0.00
ATOM	87	CB	GLN	6	-7.489	-8.705	6.810	1.00	0.00
ATOM	88	HB2	GLN	6	-7.807	-9.691	6.472	1.00	0.00
ATOM	89	HB3	GLN	6	-7.958	-8.481	7.768	1.00	0.00
ATOM	90	CG	GLN	6	-7.905	-7.658	5.784	1.00	0.00
ATOM	91	HG2	GLN	6	-6.991	-7.153	5.471	1.00	0.00

ATOM	92	HG3 GLN	6	-8.379	-8.120	4.918	1.00	0.00
ATOM	93	CD GLN	6	-8.851	-6.630	6.362	1.00	0.00
ATOM	94	OE1 GLN	6	-8.871	-6.331	7.541	1.00	0.00
ATOM	95	NE2 GLN	6	-9.713	-6.112	5.498	1.00	0.00
ATOM	96	HE21 GLN	6	-10.378	-5.418	5.807	1.00	0.00
ATOM	97	HE22 GLN	6	-9.700	-6.414	4.534	1.00	0.00
ATOM	98	C GLN	6	-5.620	-8.764	8.482	1.00	0.00
ATOM	99	O GLN	6	-5.865	-7.817	9.210	1.00	0.00
ATOM	100	N ARG	7	-5.054	-9.872	8.942	1.00	0.00
ATOM	101	H ARG	7	-4.930	-10.622	8.276	1.00	0.00
ATOM	102	CA ARG	7	-4.643	-10.092	10.296	1.00	0.00
ATOM	103	HA ARG	7	-5.048	-9.301	10.927	1.00	0.00
ATOM	104	CB ARG	7	-5.138	-11.442	10.825	1.00	0.00
ATOM	105	HB2 ARG	7	-5.943	-11.801	10.183	1.00	0.00
ATOM	106	HB3 ARG	7	-4.313	-12.155	10.805	1.00	0.00
ATOM	107	CG ARG	7	-5.653	-11.300	12.254	1.00	0.00
ATOM	108	HG2 ARG	7	-4.925	-10.733	12.833	1.00	0.00
ATOM	109	HG3 ARG	7	-6.600	-10.760	12.232	1.00	0.00
ATOM	110	CD ARG	7	-5.863	-12.673	12.902	1.00	0.00
ATOM	111	HD2 ARG	7	-6.857	-13.049	12.657	1.00	0.00
ATOM	112	HD3 ARG	7	-5.111	-13.373	12.536	1.00	0.00
ATOM	113	NE ARG	7	-5.743	-12.574	14.371	1.00	0.00

ATOM	114	HE	ARG	7	-6.605	-12.482	14.889	1.00	0.00
ATOM	115	CZ	ARG	7	-4.601	-12.592	15.042	1.00	0.00
ATOM	116	NH1	ARG	7	-3.459	-12.723	14.408	1.00	0.00
ATOM	117	HH11	ARG	7	-3.451	-12.811	13.402	1.00	0.00
ATOM	118	HH12	ARG	7	-2.594	-12.736	14.929	1.00	0.00
ATOM	119	NH2	ARG	7	-4.599	-12.485	16.349	1.00	0.00
ATOM	120	HH21	ARG	7	-5.473	-12.389	16.846	1.00	0.00
ATOM	121	HH22	ARG	7	-3.724	-12.500	16.852	1.00	0.00
ATOM	122	C	ARG	7	-3.142	-10.038	10.397	1.00	0.00
ATOM	123	O	ARG	7	-2.666	-10.045	11.505	1.00	0.00
ATOM	124	N	GLU	8	-2.446	-10.026	9.273	1.00	0.00
ATOM	125	H	GLU	8	-2.944	-10.119	8.399	1.00	0.00
ATOM	126	CA	GLU	8	-1.001	-9.949	9.234	1.00	0.00
ATOM	127	HA	GLU	8	-0.599	-9.991	10.246	1.00	0.00
ATOM	128	CB	GLU	8	-0.432	-11.121	8.434	1.00	0.00
ATOM	129	HB2	GLU	8	-1.255	-11.665	7.969	1.00	0.00
ATOM	130	HB3	GLU	8	0.230	-10.733	7.660	1.00	0.00
ATOM	131	CG	GLU	8	0.353	-12.068	9.349	1.00	0.00
ATOM	132	HG2	GLU	8	0.009	-11.873	10.364	1.00	0.00
ATOM	133	HG3	GLU	8	0.161	-13.111	9.095	1.00	0.00
ATOM	134	CD	GLU	8	1.857	-11.789	9.257	1.00	0.00
ATOM	135	OE1	GLU	8	2.416	-12.053	8.173	1.00	0.00

ATOM	136	OE2	GLU	8	2.413	-11.373	10.292	1.00	0.00
ATOM	137	C	GLU	8	-0.525	-8.628	8.647	1.00	0.00
ATOM	138	O	GLU	8	0.543	-8.143	8.963	1.00	0.00
ATOM	139	N	PHE	9	-1.384	-7.972	7.879	1.00	0.00
ATOM	140	H	PHE	9	-2.298	-8.382	7.747	1.00	0.00
ATOM	141	CA	PHE	9	-1.099	-6.730	7.234	1.00	0.00
ATOM	142	HA	PHE	9	-0.061	-6.697	6.904	1.00	0.00
ATOM	143	CB	PHE	9	-2.003	-6.594	6.013	1.00	0.00
ATOM	144	HB2	PHE	9	-1.528	-7.090	5.166	1.00	0.00
ATOM	145	HB3	PHE	9	-2.974	-7.052	6.204	1.00	0.00
ATOM	146	CG	PHE	9	-2.274	-5.167	5.584	1.00	0.00
ATOM	147	CD1	PHE	9	-3.097	-4.328	6.354	1.00	0.00
ATOM	148	HD1	PHE	9	-3.569	-4.730	7.250	1.00	0.00
ATOM	149	CE1	PHE	9	-3.314	-3.002	5.988	1.00	0.00
ATOM	150	HE1	PHE	9	-3.913	-2.349	6.622	1.00	0.00
ATOM	151	CZ	PHE	9	-2.763	-2.512	4.807	1.00	0.00
ATOM	152	HZ	PHE	9	-2.937	-1.481	4.498	1.00	0.00
ATOM	153	CE2	PHE	9	-1.981	-3.355	4.015	1.00	0.00
ATOM	154	HE2	PHE	9	-1.569	-2.971	3.082	1.00	0.00
ATOM	155	CD2	PHE	9	-1.724	-4.673	4.402	1.00	0.00
ATOM	156	HD2	PHE	9	-1.096	-5.311	3.780	1.00	0.00
ATOM	157	C	PHE	9	-1.367	-5.617	8.204	1.00	0.00

ATOM	158	O	PHE	9	-0.693	-4.607	8.224	1.00	0.00
ATOM	159	N	GLN	10	-2.440	-5.744	9.001	1.00	0.00
ATOM	160	H	GLN	10	-3.029	-6.560	8.906	1.00	0.00
ATOM	161	CA	GLN	10	-2.828	-4.726	9.948	1.00	0.00
ATOM	162	HA	GLN	10	-2.374	-3.775	9.669	1.00	0.00
ATOM	163	CB	GLN	10	-4.351	-4.554	9.971	1.00	0.00
ATOM	164	HB2	GLN	10	-4.647	-3.956	9.110	1.00	0.00
ATOM	165	HB3	GLN	10	-4.814	-5.539	9.905	1.00	0.00
ATOM	166	CG	GLN	10	-4.810	-3.858	11.260	1.00	0.00
ATOM	167	HG2	GLN	10	-4.662	-4.517	12.115	1.00	0.00
ATOM	168	HG3	GLN	10	-4.209	-2.958	11.387	1.00	0.00
ATOM	169	CD	GLN	10	-6.261	-3.463	11.202	1.00	0.00
ATOM	170	OE1	GLN	10	-6.630	-2.466	10.602	1.00	0.00
ATOM	171	NE2	GLN	10	-7.100	-4.278	11.815	1.00	0.00
ATOM	172	HE21	GLN	10	-8.089	-4.073	11.815	1.00	0.00
ATOM	173	HE22	GLN	10	-6.749	-5.103	12.281	1.00	0.00
ATOM	174	C	GLN	10	-2.285	-5.097	11.322	1.00	0.00
ATOM	175	O	GLN	10	-2.302	-4.289	12.249	1.00	0.00
ATOM	176	N	GLN	11	-1.816	-6.329	11.480	1.00	0.00
ATOM	177	H	GLN	11	-1.860	-6.981	10.709	1.00	0.00
ATOM	178	CA	GLN	11	-1.286	-6.792	12.736	1.00	0.00
ATOM	179	HA	GLN	11	-2.091	-6.892	13.464	1.00	0.00

ATOM	180	CB	GLN	11	-0.617	-8.150	12.560	1.00	0.00
ATOM	181	HB2	GLN	11	-0.945	-8.587	11.616	1.00	0.00
ATOM	182	HB3	GLN	11	0.464	-8.012	12.540	1.00	0.00
ATOM	183	CG	GLN	11	-0.990	-9.087	13.712	1.00	0.00
ATOM	184	HG2	GLN	11	-1.809	-8.616	14.255	1.00	0.00
ATOM	185	HG3	GLN	11	-1.315	-10.058	13.337	1.00	0.00
ATOM	186	CD	GLN	11	0.166	-9.299	14.668	1.00	0.00
ATOM	187	OE1	GLN	11	1.320	-9.338	14.300	1.00	0.00
ATOM	188	NE2	GLN	11	-0.174	-9.491	15.932	1.00	0.00
ATOM	189	HE21	GLN	11	0.543	-9.640	16.628	1.00	0.00
ATOM	190	HE22	GLN	11	-1.149	-9.489	16.195	1.00	0.00
ATOM	191	C	GLN	11	-0.298	-5.791	13.304	1.00	0.00
ATOM	192	O	GLN	11	-0.497	-5.276	14.400	1.00	0.00
ATOM	193	N	GLU	12	0.692	-5.422	12.490	1.00	0.00
ATOM	194	H	GLU	12	0.762	-5.835	11.571	1.00	0.00
ATOM	195	CA	GLU	12	1.736	-4.507	12.915	1.00	0.00
ATOM	196	HA	GLU	12	1.289	-3.535	13.124	1.00	0.00
ATOM	197	CB	GLU	12	2.462	-4.995	14.178	1.00	0.00
ATOM	198	HB2	GLU	12	3.486	-4.622	14.152	1.00	0.00
ATOM	199	HB3	GLU	12	1.949	-4.587	15.049	1.00	0.00
ATOM	200	CG	GLU	12	2.478	-6.524	14.266	1.00	0.00
ATOM	201	HG2	GLU	12	1.579	-6.890	14.762	1.00	0.00

ATOM	202	HG3	GLU	12	2.497	-6.885	13.237	1.00	0.00
ATOM	203	CD	GLU	12	3.704	-7.032	15.002	1.00	0.00
ATOM	204	OE1	GLU	12	4.754	-7.171	14.334	1.00	0.00
ATOM	205	OE2	GLU	12	3.593	-7.223	16.237	1.00	0.00
ATOM	206	C	GLU	12	2.722	-4.267	11.780	1.00	0.00
ATOM	207	O	GLU	12	3.907	-4.031	11.986	1.00	0.00
ATOM	208	N	GLN	13	2.213	-4.284	10.549	1.00	0.00
ATOM	209	H	GLN	13	1.236	-4.505	10.417	1.00	0.00
ATOM	210	CA	GLN	13	3.030	-4.071	9.379	1.00	0.00
ATOM	211	HA	GLN	13	3.774	-3.302	9.585	1.00	0.00
ATOM	212	CB	GLN	13	3.756	-5.360	8.984	1.00	0.00
ATOM	213	HB2	GLN	13	3.177	-6.214	9.337	1.00	0.00
ATOM	214	HB3	GLN	13	3.838	-5.401	7.898	1.00	0.00
ATOM	215	CG	GLN	13	5.152	-5.402	9.601	1.00	0.00
ATOM	216	HG2	GLN	13	5.636	-4.426	9.592	1.00	0.00
ATOM	217	HG3	GLN	13	5.022	-5.733	10.631	1.00	0.00
ATOM	218	CD	GLN	13	6.048	-6.394	8.883	1.00	0.00
ATOM	219	OE1	GLN	13	5.971	-6.619	7.684	1.00	0.00
ATOM	220	NE2	GLN	13	6.985	-6.959	9.627	1.00	0.00
ATOM	221	HE21	GLN	13	7.617	-7.630	9.214	1.00	0.00
ATOM	222	HE22	GLN	13	7.063	-6.717	10.604	1.00	0.00
ATOM	223	C	GLN	13	2.188	-3.548	8.247	1.00	0.00



ATOM	224	O	GLN	13	2.207	-4.084	7.178	1.00	0.00
ATOM	225	N	HIE	14	1.404	-2.502	8.501	1.00	0.00
ATOM	226	H	HIE	14	1.384	-2.137	9.442	1.00	0.00
ATOM	227	CA	HIE	14	0.509	-1.923	7.521	1.00	0.00
ATOM	228	HA	HIE	14	-0.099	-2.709	7.073	1.00	0.00
ATOM	229	CB	HIE	14	-0.421	-0.894	8.170	1.00	0.00
ATOM	230	HB2	HIE	14	0.041	0.093	8.175	1.00	0.00
ATOM	231	HB3	HIE	14	-1.342	-0.861	7.587	1.00	0.00
ATOM	232	CG	HIE	14	-0.820	-1.188	9.586	1.00	0.00
ATOM	233	ND1	HIE	14	-1.372	-0.260	10.434	1.00	0.00
ATOM	234	CE1	HIE	14	-1.596	-0.845	11.618	1.00	0.00
ATOM	235	HE1	HIE	14	-2.060	-0.294	12.436	1.00	0.00
ATOM	236	NE2	HIE	14	-1.163	-2.106	11.546	1.00	0.00
ATOM	237	HE2	HIE	14	-1.178	-2.778	12.300	1.00	0.00
ATOM	238	CD2	HIE	14	-0.692	-2.352	10.285	1.00	0.00
ATOM	239	HD2	HIE	14	-0.315	-3.342	10.027	1.00	0.00
ATOM	240	C	HIE	14	1.355	-1.341	6.398	1.00	0.00
ATOM	241	O	HIE	14	2.465	-1.752	6.100	1.00	0.00
ATOM	242	N	LEU	15	0.857	-0.264	5.793	1.00	0.00
ATOM	243	H	LEU	15	-0.072	0.055	6.026	1.00	0.00
ATOM	244	CA	LEU	15	1.560	0.401	4.720	1.00	0.00
ATOM	245	HA	LEU	15	2.560	-0.018	4.613	1.00	0.00

ATOM	246	CB	LEU	15	0.805	0.210	3.398	1.00	0.00
ATOM	247	HB2	LEU	15	-0.023	0.913	3.485	1.00	0.00
ATOM	248	HB3	LEU	15	1.442	0.502	2.563	1.00	0.00
ATOM	249	CG	LEU	15	0.255	-1.198	3.152	1.00	0.00
ATOM	250	HG	LEU	15	-0.601	-1.361	3.807	1.00	0.00
ATOM	251	CD1	LEU	15	-0.178	-1.365	1.700	1.00	0.00
ATOM	252	HD11	LEU	15	0.677	-1.203	1.044	1.00	0.00
ATOM	253	HD12	LEU	15	-0.565	-2.373	1.549	1.00	0.00
ATOM	254	HD13	LEU	15	-0.957	-0.639	1.466	1.00	0.00
ATOM	255	CD2	LEU	15	1.240	-2.262	3.544	1.00	0.00
ATOM	256	HD21	LEU	15	1.474	-2.169	4.604	1.00	0.00
ATOM	257	HD22	LEU	15	0.809	-3.245	3.353	1.00	0.00
ATOM	258	HD23	LEU	15	2.153	-2.146	2.959	1.00	0.00
ATOM	259	C	LEU	15	1.787	1.851	5.076	1.00	0.00
ATOM	260	O	LEU	15	1.194	2.349	6.039	1.00	0.00
ATOM	261	N	ARG	16	2.599	2.541	4.274	1.00	0.00
ATOM	262	H	ARG	16	3.014	2.083	3.475	1.00	0.00
ATOM	263	CA	ARG	16	2.908	3.933	4.502	1.00	0.00
ATOM	264	HA	ARG	16	2.049	4.426	4.958	1.00	0.00
ATOM	265	CB	ARG	16	4.109	4.085	5.433	1.00	0.00
ATOM	266	HB2	ARG	16	4.813	3.279	5.227	1.00	0.00
ATOM	267	HB3	ARG	16	4.586	5.044	5.232	1.00	0.00

ATOM	268	CG	ARG	16	3.681	4.026	6.900	1.00	0.00
ATOM	269	HG2	ARG	16	2.610	3.829	6.943	1.00	0.00
ATOM	270	HG3	ARG	16	4.219	3.213	7.388	1.00	0.00
ATOM	271	CD	ARG	16	3.987	5.343	7.616	1.00	0.00
ATOM	272	HD2	ARG	16	3.955	6.163	6.899	1.00	0.00
ATOM	273	HD3	ARG	16	3.246	5.514	8.396	1.00	0.00
ATOM	274	NE	ARG	16	5.326	5.308	8.235	1.00	0.00
ATOM	275	HE	ARG	16	5.963	4.610	7.879	1.00	0.00
ATOM	276	CZ	ARG	16	5.744	6.112	9.195	1.00	0.00
ATOM	277	NH1	ARG	16	4.949	7.040	9.677	1.00	0.00
ATOM	278	HH11	ARG	16	4.013	7.138	9.311	1.00	0.00
ATOM	279	HH12	ARG	16	5.278	7.650	10.411	1.00	0.00
ATOM	280	NH2	ARG	16	6.954	5.988	9.683	1.00	0.00
ATOM	281	HH21	ARG	16	7.570	5.273	9.322	1.00	0.00
ATOM	282	HH22	ARG	16	7.265	6.607	10.417	1.00	0.00
ATOM	283	C	ARG	16	3.230	4.587	3.207	1.00	0.00
ATOM	284	O	ARG	16	2.412	5.322	2.724	1.00	0.00
ATOM	285	N	ALA	17	4.366	4.300	2.609	1.00	0.00
ATOM	286	H	ALA	17	5.026	3.711	3.096	1.00	0.00
ATOM	287	CA	ALA	17	4.753	4.851	1.337	1.00	0.00
ATOM	288	HA	ALA	17	4.910	5.923	1.452	1.00	0.00
ATOM	289	CB	ALA	17	6.069	4.210	0.872	1.00	0.00

ATOM	290	HB1	ALA	17	5.926	3.137	0.743	1.00	0.00
ATOM	291	HB2	ALA	17	6.373	4.651	-0.077	1.00	0.00
ATOM	292	HB3	ALA	17	6.843	4.385	1.619	1.00	0.00
ATOM	293	C	ALA	17	3.629	4.677	0.297	1.00	0.00
ATOM	294	O	ALA	17	3.531	5.420	-0.670	1.00	0.00
ATOM	295	N	CYX	18	2.690	3.761	0.555	1.00	0.00
ATOM	296	H	CYX	18	2.791	3.203	1.391	1.00	0.00
ATOM	297	CA	CYX	18	1.593	3.487	-0.311	1.00	0.00
ATOM	298	HA	CYX	18	1.880	3.704	-1.340	1.00	0.00
ATOM	299	CB	CYX	18	1.172	2.026	-0.222	1.00	0.00
ATOM	300	HB2	CYX	18	1.982	1.440	0.213	1.00	0.00
ATOM	301	HB3	CYX	18	0.285	1.940	0.405	1.00	0.00
ATOM	302	SG	CYX	18	0.810	1.231	-1.805	1.00	0.00
ATOM	303	C	CYX	18	0.479	4.421	0.068	1.00	0.00
ATOM	304	O	CYX	18	-0.077	5.119	-0.762	1.00	0.00
ATOM	305	N	GLN	19	0.150	4.467	1.356	1.00	0.00
ATOM	306	H	GLN	19	0.583	3.818	1.997	1.00	0.00
ATOM	307	CA	GLN	19	-0.865	5.347	1.861	1.00	0.00
ATOM	308	HA	GLN	19	-1.583	5.584	1.076	1.00	0.00
ATOM	309	CB	GLN	19	-1.600	4.674	3.002	1.00	0.00
ATOM	310	HB2	GLN	19	-2.422	5.326	3.296	1.00	0.00
ATOM	311	HB3	GLN	19	-2.001	3.732	2.627	1.00	0.00

ATOM	312	CG	GLN	19	-0.711	4.402	4.209	1.00	0.00
ATOM	313	HG2	GLN	19	-0.891	3.386	4.562	1.00	0.00
ATOM	314	HG3	GLN	19	0.335	4.506	3.921	1.00	0.00
ATOM	315	CD	GLN	19	-1.001	5.371	5.346	1.00	0.00
ATOM	316	OE1	GLN	19	-0.115	6.003	5.921	1.00	0.00
ATOM	317	NE2	GLN	19	-2.276	5.492	5.688	1.00	0.00
ATOM	318	HE21	GLN	19	-2.538	6.118	6.435	1.00	0.00
ATOM	319	HE22	GLN	19	-2.980	4.957	5.199	1.00	0.00
ATOM	320	C	GLN	19	-0.282	6.674	2.277	1.00	0.00
ATOM	321	O	GLN	19	-0.778	7.288	3.192	1.00	0.00
ATOM	322	N	GLN	20	0.801	7.115	1.660	1.00	0.00
ATOM	323	H	GLN	20	1.180	6.547	0.915	1.00	0.00
ATOM	324	CA	GLN	20	1.491	8.332	2.011	1.00	0.00
ATOM	325	HA	GLN	20	0.845	8.926	2.657	1.00	0.00
ATOM	326	CB	GLN	20	2.810	8.073	2.743	1.00	0.00
ATOM	327	HB2	GLN	20	3.368	7.313	2.196	1.00	0.00
ATOM	328	HB3	GLN	20	3.384	8.999	2.765	1.00	0.00
ATOM	329	CG	GLN	20	2.562	7.591	4.180	1.00	0.00
ATOM	330	HG2	GLN	20	1.600	7.081	4.241	1.00	0.00
ATOM	331	HG3	GLN	20	3.360	6.892	4.433	1.00	0.00
ATOM	332	CD	GLN	20	2.574	8.715	5.177	1.00	0.00
ATOM	333	OE1	GLN	20	3.134	9.777	4.974	1.00	0.00

ATOM	334	NE2	GLN	20	1.905	8.504	6.299	1.00	0.00
ATOM	335	HE21	GLN	20	1.876	9.222	7.008	1.00	0.00
ATOM	336	HE22	GLN	20	1.427	7.625	6.440	1.00	0.00
ATOM	337	C	GLN	20	1.755	9.120	0.754	1.00	0.00
ATOM	338	O	GLN	20	1.572	10.328	0.730	1.00	0.00
ATOM	339	N	TRP	21	2.131	8.433	-0.325	1.00	0.00
ATOM	340	H	TRP	21	2.297	7.439	-0.255	1.00	0.00
ATOM	341	CA	TRP	21	2.376	9.082	-1.595	1.00	0.00
ATOM	342	HA	TRP	21	3.139	9.851	-1.477	1.00	0.00
ATOM	343	CB	TRP	21	2.863	8.066	-2.627	1.00	0.00
ATOM	344	HB2	TRP	21	3.365	8.579	-3.447	1.00	0.00
ATOM	345	HB3	TRP	21	3.566	7.393	-2.136	1.00	0.00
ATOM	346	CG	TRP	21	1.808	7.207	-3.243	1.00	0.00
ATOM	347	CD1	TRP	21	1.463	5.938	-2.935	1.00	0.00
ATOM	348	HD1	TRP	21	2.050	5.482	-2.138	1.00	0.00
ATOM	349	NE1	TRP	21	0.417	5.481	-3.715	1.00	0.00
ATOM	350	HE1	TRP	21	-0.022	4.574	-3.638	1.00	0.00
ATOM	351	CE2	TRP	21	0.049	6.472	-4.590	1.00	0.00
ATOM	352	CZ2	TRP	21	-0.938	6.547	-5.571	1.00	0.00
ATOM	353	HZ2	TRP	21	-1.560	5.666	-5.733	1.00	0.00
ATOM	354	CH2	TRP	21	-1.071	7.737	-6.284	1.00	0.00
ATOM	355	HH2	TRP	21	-1.814	7.822	-7.077	1.00	0.00

ATOM	356	CZ3 TRP	21	-0.255	8.841	-5.995	1.00	0.00
ATOM	357	HZ3 TRP	21	-0.401	9.782	-6.525	1.00	0.00
ATOM	358	CE3 TRP	21	0.759	8.779	-5.034	1.00	0.00
ATOM	359	HE3 TRP	21	1.390	9.654	-4.882	1.00	0.00
ATOM	360	CD2 TRP	21	0.913	7.585	-4.301	1.00	0.00
ATOM	361	C TRP	21	1.101	9.776	-2.042	1.00	0.00
ATOM	362	O TRP	21	1.118	10.846	-2.639	1.00	0.00
ATOM	363	N ILE	22	-0.050	9.176	-1.715	1.00	0.00
ATOM	364	H ILE	22	-0.024	8.292	-1.227	1.00	0.00
ATOM	365	CA ILE	22	-1.339	9.716	-2.086	1.00	0.00
ATOM	366	HA ILE	22	-1.352	10.045	-3.125	1.00	0.00
ATOM	367	CB ILE	22	-2.434	8.664	-1.870	1.00	0.00
ATOM	368	HB ILE	22	-2.488	8.416	-0.810	1.00	0.00
ATOM	369	CG2 ILE	22	-3.788	9.208	-2.336	1.00	0.00
ATOM	370	HG21 ILE	22	-3.735	9.455	-3.396	1.00	0.00
ATOM	371	HG22 ILE	22	-4.558	8.452	-2.178	1.00	0.00
ATOM	372	HG23 ILE	22	-4.036	10.103	-1.766	1.00	0.00
ATOM	373	CG1 ILE	22	-2.088	7.363	-2.601	1.00	0.00
ATOM	374	HG12 ILE	22	-2.353	7.475	-3.653	1.00	0.00
ATOM	375	HG13 ILE	22	-1.015	7.191	-2.513	1.00	0.00
ATOM	376	CD1 ILE	22	-2.843	6.176	-2.011	1.00	0.00
ATOM	377	HD11 ILE	22	-3.916	6.347	-2.099	1.00	0.00

ATOM	378	HD12	ILE	22	-2.575	5.268	-2.553	1.00	0.00
ATOM	379	HD13	ILE	22	-2.579	6.062	-0.960	1.00	0.00
ATOM	380	C	ILE	22	-1.586	10.967	-1.267	1.00	0.00
ATOM	381	O	ILE	22	-2.224	11.905	-1.721	1.00	0.00
ATOM	382	N	ARG	23	-1.064	11.005	-0.035	1.00	0.00
ATOM	383	H	ARG	23	-0.605	10.181	0.328	1.00	0.00
ATOM	384	CA	ARG	23	-1.164	12.166	0.819	1.00	0.00
ATOM	385	HA	ARG	23	-2.202	12.496	0.863	1.00	0.00
ATOM	386	CB	ARG	23	-0.694	11.851	2.232	1.00	0.00
ATOM	387	HB2	ARG	23	0.083	11.088	2.183	1.00	0.00
ATOM	388	HB3	ARG	23	-0.285	12.757	2.677	1.00	0.00
ATOM	389	CG	ARG	23	-1.851	11.343	3.086	1.00	0.00
ATOM	390	HG2	ARG	23	-1.699	11.668	4.115	1.00	0.00
ATOM	391	HG3	ARG	23	-2.781	11.765	2.706	1.00	0.00
ATOM	392	CD	ARG	23	-1.928	9.822	3.041	1.00	0.00
ATOM	393	HD2	ARG	23	-2.850	9.507	2.552	1.00	0.00
ATOM	394	HD3	ARG	23	-1.074	9.419	2.497	1.00	0.00
ATOM	395	NE	ARG	23	-1.912	9.277	4.426	1.00	0.00
ATOM	396	HE	ARG	23	-2.696	8.687	4.667	1.00	0.00
ATOM	397	CZ	ARG	23	-0.954	9.431	5.304	1.00	0.00
ATOM	398	NH1	ARG	23	0.073	10.184	5.002	1.00	0.00
ATOM	399	HH11	ARG	23	0.116	10.636	4.100	1.00	0.00



ATOM	400	HH12	ARG	23	0.818	10.309	5.672	1.00	0.00
ATOM	401	NH2	ARG	23	-1.055	8.911	6.501	1.00	0.00
ATOM	402	HH21	ARG	23	-1.880	8.385	6.752	1.00	0.00
ATOM	403	HH22	ARG	23	-0.308	9.038	7.168	1.00	0.00
ATOM	404	C	ARG	23	-0.349	13.336	0.273	1.00	0.00
ATOM	405	O	ARG	23	-0.563	14.483	0.666	1.00	0.00
ATOM	406	N	GLN	24	0.586	13.045	-0.625	1.00	0.00
ATOM	407	H	GLN	24	0.773	12.079	-0.854	1.00	0.00
ATOM	408	CA	GLN	24	1.392	14.062	-1.247	1.00	0.00
ATOM	409	HA	GLN	24	1.609	14.855	-0.531	1.00	0.00
ATOM	410	CB	GLN	24	2.712	13.465	-1.728	1.00	0.00
ATOM	411	HB2	GLN	24	2.586	12.391	-1.865	1.00	0.00
ATOM	412	HB3	GLN	24	2.982	13.923	-2.680	1.00	0.00
ATOM	413	CG	GLN	24	3.821	13.721	-0.707	1.00	0.00
ATOM	414	HG2	GLN	24	4.538	14.426	-1.127	1.00	0.00
ATOM	415	HG3	GLN	24	3.376	14.148	0.191	1.00	0.00
ATOM	416	CD	GLN	24	4.555	12.452	-0.327	1.00	0.00
ATOM	417	OE1	GLN	24	4.580	11.483	-1.058	1.00	0.00
ATOM	418	NE2	GLN	24	5.171	12.454	0.834	1.00	0.00
ATOM	419	HE21	GLN	24	5.676	11.633	1.136	1.00	0.00
ATOM	420	HE22	GLN	24	5.137	13.276	1.419	1.00	0.00
ATOM	421	C	GLN	24	0.656	14.720	-2.401	1.00	0.00

ATOM	422	O	GLN	24	1.085	15.749	-2.910	1.00	0.00
ATOM	423	N	GLN	25	-0.456	14.102	-2.827	1.00	0.00
ATOM	424	H	GLN	25	-0.715	13.208	-2.435	1.00	0.00
ATOM	425	CA	GLN	25	-1.266	14.643	-3.891	1.00	0.00
ATOM	426	HA	GLN	25	-0.629	14.971	-4.712	1.00	0.00
ATOM	427	CB	GLN	25	-2.233	13.578	-4.417	1.00	0.00
ATOM	428	HB2	GLN	25	-2.140	12.680	-3.807	1.00	0.00
ATOM	429	HB3	GLN	25	-3.252	13.958	-4.350	1.00	0.00
ATOM	430	CG	GLN	25	-1.911	13.240	-5.872	1.00	0.00
ATOM	431	HG2	GLN	25	-0.830	13.105	-5.894	1.00	0.00
ATOM	432	HG3	GLN	25	-2.397	12.325	-6.212	1.00	0.00
ATOM	433	CD	GLN	25	-2.279	14.367	-6.821	1.00	0.00
ATOM	434	OE1	GLN	25	-2.771	15.409	-6.468	1.00	0.00
ATOM	435	NE2	GLN	25	-2.129	14.121	-8.105	1.00	0.00
ATOM	436	HE21	GLN	25	-2.358	14.834	-8.783	1.00	0.00
ATOM	437	HE22	GLN	25	-1.785	13.220	-8.407	1.00	0.00
ATOM	438	C	GLN	25	-2.018	15.885	-3.417	1.00	0.00
ATOM	439	O	GLN	25	-2.631	16.616	-4.183	1.00	0.00
ATOM	440	N	LEU	26	-2.007	16.135	-2.111	1.00	0.00
ATOM	441	H	LEU	26	-1.584	15.459	-1.491	1.00	0.00
ATOM	442	CA	LEU	26	-2.682	17.263	-1.531	1.00	0.00
ATOM	443	HA	LEU	26	-3.200	17.822	-2.310	1.00	0.00

ATOM	444	CB	LEU	26	-3.713	16.801	-0.490	1.00	0.00
ATOM	445	HB2	LEU	26	-3.198	16.901	0.465	1.00	0.00
ATOM	446	HB3	LEU	26	-4.563	17.482	-0.518	1.00	0.00
ATOM	447	CG	LEU	26	-4.209	15.357	-0.654	1.00	0.00
ATOM	448	HG	LEU	26	-4.094	15.057	-1.696	1.00	0.00
ATOM	449	CD1	LEU	26	-3.409	14.419	0.233	1.00	0.00
ATOM	450	HD11	LEU	26	-3.524	14.717	1.275	1.00	0.00
ATOM	451	HD12	LEU	26	-3.773	13.399	0.105	1.00	0.00
ATOM	452	HD13	LEU	26	-2.356	14.466	-0.044	1.00	0.00
ATOM	453	CD2	LEU	26	-5.699	15.256	-0.332	1.00	0.00
ATOM	454	HD21	LEU	26	-6.262	15.899	-1.008	1.00	0.00
ATOM	455	HD22	LEU	26	-6.029	14.224	-0.455	1.00	0.00
ATOM	456	HD23	LEU	26	-5.871	15.572	0.697	1.00	0.00
ATOM	457	C	LEU	26	-1.649	18.233	-0.984	1.00	0.00
ATOM	458	O	LEU	26	-0.455	18.109	-1.227	1.00	0.00
ATOM	459	N	ALA	27	-2.122	19.198	-0.198	1.00	0.00
ATOM	460	H	ALA	27	-3.120	19.297	-0.075	1.00	0.00
ATOM	461	CA	ALA	27	-1.251	20.174	0.429	1.00	0.00
ATOM	462	HA	ALA	27	-0.355	20.325	-0.173	1.00	0.00
ATOM	463	CB	ALA	27	-1.998	21.498	0.531	1.00	0.00
ATOM	464	HB1	ALA	27	-2.893	21.365	1.138	1.00	0.00
ATOM	465	HB2	ALA	27	-1.353	22.245	0.994	1.00	0.00

ATOM	466	HB3	ALA	27	-2.283	21.833	-0.467	1.00	0.00
ATOM	467	C	ALA	27	-0.775	19.660	1.785	1.00	0.00
ATOM	468	O	ALA	27	-0.336	20.427	2.637	1.00	0.00
ATOM	469	N	GLY	28	-0.919	18.347	2.018	1.00	0.00
ATOM	470	H	GLY	28	-1.346	17.770	1.307	1.00	0.00
ATOM	471	CA	GLY	28	-0.490	17.717	3.245	1.00	0.00
ATOM	472	HA2	GLY	28	-0.698	18.388	4.078	1.00	0.00
ATOM	473	HA3	GLY	28	-1.046	16.789	3.379	1.00	0.00
ATOM	474	C	GLY	28	0.998	17.404	3.221	1.00	0.00
ATOM	475	O	GLY	28	1.476	16.640	4.054	1.00	0.00
ATOM	476	N	SER	29	1.718	17.949	2.240	1.00	0.00
ATOM	477	H	SER	29	1.244	18.492	1.533	1.00	0.00
ATOM	478	CA	SER	29	3.140	17.749	2.109	1.00	0.00
ATOM	479	HA	SER	29	3.592	17.613	3.091	1.00	0.00
ATOM	480	CB	SER	29	3.413	16.503	1.270	1.00	0.00
ATOM	481	HB2	SER	29	3.163	15.636	1.882	1.00	0.00
ATOM	482	HB3	SER	29	2.750	16.540	0.406	1.00	0.00
ATOM	483	OG	SER	29	4.753	16.399	0.831	1.00	0.00
ATOM	484	HG	SER	29	4.858	15.598	0.311	1.00	0.00
ATOM	485	C	SER	29	3.812	18.956	1.498	1.00	0.00
ATOM	486	O	SER	29	3.166	19.686	0.775	1.00	0.00
ATOM	487	N	PRO	30	5.071	19.200	1.864	1.00	0.00

ATOM	488	CD	PRO	30	5.854	18.389	2.780	1.00	0.00
ATOM	489	HD2	PRO	30	6.024	17.420	2.310	1.00	0.00
ATOM	490	HD3	PRO	30	5.271	18.253	3.691	1.00	0.00
ATOM	491	CG	PRO	30	7.149	19.155	3.027	1.00	0.00
ATOM	492	HG2	PRO	30	7.988	18.563	2.660	1.00	0.00
ATOM	493	HG3	PRO	30	7.264	19.323	4.098	1.00	0.00
ATOM	494	CB	PRO	30	7.030	20.483	2.275	1.00	0.00
ATOM	495	HB2	PRO	30	7.932	20.701	1.703	1.00	0.00
ATOM	496	HB3	PRO	30	6.829	21.304	2.963	1.00	0.00
ATOM	497	CA	PRO	30	5.848	20.296	1.329	1.00	0.00
ATOM	498	HA	PRO	30	5.237	21.197	1.378	1.00	0.00
ATOM	499	C	PRO	30	6.276	20.056	-0.098	1.00	0.00
ATOM	500	O	PRO	30	5.950	19.025	-0.675	1.00	0.00
ATOM	501	N	PHE	31	7.045	21.000	-0.652	1.00	0.00
ATOM	502	H	PHE	31	7.316	21.807	-0.109	1.00	0.00
ATOM	503	CA	PHE	31	7.516	20.902	-2.015	1.00	0.00
ATOM	504	HA	PHE	31	7.771	19.873	-2.269	1.00	0.00
ATOM	505	CB	PHE	31	6.386	21.368	-2.938	1.00	0.00
ATOM	506	HB2	PHE	31	6.318	22.454	-2.996	1.00	0.00
ATOM	507	HB3	PHE	31	6.612	20.966	-3.926	1.00	0.00
ATOM	508	CG	PHE	31	5.003	20.866	-2.572	1.00	0.00
ATOM	509	CD1	PHE	31	4.596	19.577	-2.951	1.00	0.00

ATOM	510	HD1	PHE	31	5.258	18.959	-3.559	1.00	0.00
ATOM	511	CE1	PHE	31	3.345	19.082	-2.552	1.00	0.00
ATOM	512	HE1	PHE	31	3.053	18.064	-2.811	1.00	0.00
ATOM	513	CZ	PHE	31	2.472	19.896	-1.821	1.00	0.00
ATOM	514	HZ	PHE	31	1.480	19.533	-1.550	1.00	0.00
ATOM	515	CE2	PHE	31	2.878	21.185	-1.436	1.00	0.00
ATOM	516	HE2	PHE	31	2.197	21.818	-0.867	1.00	0.00
ATOM	517	CD2	PHE	31	4.152	21.658	-1.781	1.00	0.00
ATOM	518	HD2	PHE	31	4.481	22.638	-1.436	1.00	0.00
ATOM	519	C	PHE	31	8.734	21.782	-2.235	1.00	0.00
ATOM	520	O	PHE	31	8.868	22.826	-1.593	1.00	0.00
ATOM	521	N	SER	32	9.614	21.355	-3.138	1.00	0.00
ATOM	522	H	SER	32	9.474	20.465	-3.596	1.00	0.00
ATOM	523	CA	SER	32	10.812	22.110	-3.454	1.00	0.00
ATOM	524	HA	SER	32	10.713	23.131	-3.087	1.00	0.00
ATOM	525	CB	SER	32	12.041	21.467	-2.793	1.00	0.00
ATOM	526	HB2	SER	32	11.728	20.536	-2.320	1.00	0.00
ATOM	527	HB3	SER	32	12.774	21.250	-3.570	1.00	0.00
ATOM	528	OG	SER	32	12.621	22.317	-1.823	1.00	0.00
ATOM	529	HG	SER	32	13.383	21.883	-1.433	1.00	0.00
ATOM	530	C	SER	32	10.993	22.190	-4.962	1.00	0.00
ATOM	531	O	SER	32	10.634	23.187	-5.588	1.00	0.00

ATOM	532	N	GLU	33	11.546	21.122	-5.546	1.00	0.00
ATOM	533	H	GLU	33	11.874	20.356	-4.976	1.00	0.00
ATOM	534	CA	GLU	33	11.779	21.064	-6.968	1.00	0.00
ATOM	535	HA	GLU	33	11.974	22.066	-7.350	1.00	0.00
ATOM	536	CB	GLU	33	12.989	20.175	-7.282	1.00	0.00
ATOM	537	HB2	GLU	33	13.260	19.628	-6.379	1.00	0.00
ATOM	538	HB3	GLU	33	12.706	19.469	-8.063	1.00	0.00
ATOM	539	CG	GLU	33	14.181	21.002	-7.752	1.00	0.00
ATOM	540	HG2	GLU	33	14.300	20.862	-8.827	1.00	0.00
ATOM	541	HG3	GLU	33	13.987	22.053	-7.542	1.00	0.00
ATOM	542	CD	GLU	33	15.459	20.568	-7.038	1.00	0.00
ATOM	543	OE1	GLU	33	15.840	19.388	-7.215	1.00	0.00
ATOM	544	OE2	GLU	33	16.030	21.421	-6.326	1.00	0.00
ATOM	545	C	GLU	33	10.523	20.593	-7.691	1.00	0.00
ATOM	546	O	GLU	33	9.440	20.499	-7.106	1.00	0.00
ATOM	547	N	ASN	34	10.675	20.268	-8.980	1.00	0.00
ATOM	548	H	ASN	34	11.573	20.393	-9.424	1.00	0.00
ATOM	549	CA	ASN	34	9.592	19.749	-9.768	1.00	0.00
ATOM	550	HA	ASN	34	8.642	20.142	-9.406	1.00	0.00
ATOM	551	CB	ASN	34	9.768	20.164	-11.227	1.00	0.00
ATOM	552	HB2	ASN	34	10.835	20.190	-11.450	1.00	0.00
ATOM	553	HB3	ASN	34	9.277	19.447	-11.885	1.00	0.00

ATOM	554	CG	ASN	34	9.186	21.536	-11.487	1.00	0.00
ATOM	555	OD1	ASN	34	8.118	21.891	-11.017	1.00	0.00
ATOM	556	ND2	ASN	34	9.902	22.312	-12.277	1.00	0.00
ATOM	557	HD21	ASN	34	9.576	23.242	-12.496	1.00	0.00
ATOM	558	HD22	ASN	34	10.773	21.972	-12.660	1.00	0.00
ATOM	559	C	ASN	34	9.549	18.239	-9.687	1.00	0.00
ATOM	560	O	ASN	34	10.595	17.593	-9.630	1.00	0.00
ATOM	561	N	GLN	35	8.349	17.675	-9.779	1.00	0.00
ATOM	562	H	GLN	35	7.531	18.266	-9.821	1.00	0.00
ATOM	563	CA	GLN	35	8.159	16.247	-9.761	1.00	0.00
ATOM	564	HA	GLN	35	8.661	15.801	-10.620	1.00	0.00
ATOM	565	CB	GLN	35	8.737	15.635	-8.485	1.00	0.00
ATOM	566	HB2	GLN	35	9.517	16.296	-8.109	1.00	0.00
ATOM	567	HB3	GLN	35	7.938	15.560	-7.747	1.00	0.00
ATOM	568	CG	GLN	35	9.324	14.251	-8.741	1.00	0.00
ATOM	569	HG2	GLN	35	9.559	13.768	-7.792	1.00	0.00
ATOM	570	HG3	GLN	35	8.586	13.655	-9.278	1.00	0.00
ATOM	571	CD	GLN	35	10.592	14.323	-9.577	1.00	0.00
ATOM	572	OE1	GLN	35	11.634	14.783	-9.154	1.00	0.00
ATOM	573	NE2	GLN	35	10.486	13.832	-10.801	1.00	0.00
ATOM	574	HE21	GLN	35	11.286	13.844	-11.418	1.00	0.00
ATOM	575	HE22	GLN	35	9.606	13.447	-11.113	1.00	0.00



ATOM	576	C	GLN	35	6.692	15.927	-9.894	1.00	0.00
ATOM	577	O	GLN	35	5.848	16.780	-9.615	1.00	0.00
ATOM	578	N	TRP	36	6.396	14.670	-10.273	1.00	0.00
ATOM	579	H	TRP	36	7.138	14.029	-10.516	1.00	0.00
ATOM	580	CA	TRP	36	5.021	14.215	-10.407	1.00	0.00
ATOM	581	HA	TRP	36	4.565	14.673	-11.285	1.00	0.00
ATOM	582	CB	TRP	36	4.970	12.692	-10.568	1.00	0.00
ATOM	583	HB2	TRP	36	5.254	12.407	-11.581	1.00	0.00
ATOM	584	HB3	TRP	36	5.661	12.240	-9.857	1.00	0.00
ATOM	585	CG	TRP	36	3.623	12.076	-10.309	1.00	0.00
ATOM	586	CD1	TRP	36	2.941	11.996	-9.133	1.00	0.00
ATOM	587	HD1	TRP	36	3.448	12.425	-8.269	1.00	0.00
ATOM	588	NE1	TRP	36	1.717	11.369	-9.294	1.00	0.00
ATOM	589	HE1	TRP	36	1.050	11.184	-8.559	1.00	0.00
ATOM	590	CE2	TRP	36	1.566	11.019	-10.615	1.00	0.00
ATOM	591	CZ2	TRP	36	0.538	10.364	-11.294	1.00	0.00
ATOM	592	HZ2	TRP	36	-0.342	10.061	-10.727	1.00	0.00
ATOM	593	CH2	TRP	36	0.702	10.136	-12.669	1.00	0.00
ATOM	594	HH2	TRP	36	-0.077	9.628	-13.238	1.00	0.00
ATOM	595	CZ3	TRP	36	1.868	10.557	-13.334	1.00	0.00
ATOM	596	HZ3	TRP	36	1.984	10.374	-14.403	1.00	0.00
ATOM	597	CE3	TRP	36	2.907	11.215	-12.663	1.00	0.00

ATOM	598	HE3 TRP	36	3.791	11.508	-13.229	1.00	0.00
ATOM	599	CD2 TRP	36	2.766	11.455	-11.282	1.00	0.00
ATOM	600	C TRP	36	4.218	14.677	-9.183	1.00	0.00
ATOM	601	O TRP	36	3.023	14.926	-9.275	1.00	0.00
ATOM	602	N GLY	37	4.896	14.775	-8.027	1.00	0.00
ATOM	603	H GLY	37	5.860	14.475	-7.992	1.00	0.00
ATOM	604	CA GLY	37	4.300	15.293	-6.827	1.00	0.00
ATOM	605	HA2 GLY	37	3.856	16.265	-7.039	1.00	0.00
ATOM	606	HA3 GLY	37	3.524	14.606	-6.488	1.00	0.00
ATOM	607	C GLY	37	5.333	15.451	-5.729	1.00	0.00
ATOM	608	O GLY	37	5.875	16.536	-5.533	1.00	0.00
ATOM	609	N PRO	38	5.632	14.342	-5.035	1.00	0.00
ATOM	610	CD PRO	38	5.046	13.021	-5.229	1.00	0.00
ATOM	611	HD2 PRO	38	5.388	12.641	-6.192	1.00	0.00
ATOM	612	HD3 PRO	38	3.962	13.135	-5.248	1.00	0.00
ATOM	613	CG PRO	38	5.521	12.163	-4.058	1.00	0.00
ATOM	614	HG2 PRO	38	6.131	11.344	-4.439	1.00	0.00
ATOM	615	HG3 PRO	38	4.654	11.757	-3.536	1.00	0.00
ATOM	616	CB PRO	38	6.328	13.081	-3.143	1.00	0.00
ATOM	617	HB2 PRO	38	7.269	12.613	-2.853	1.00	0.00
ATOM	618	HB3 PRO	38	5.761	13.340	-2.249	1.00	0.00
ATOM	619	CA PRO	38	6.604	14.330	-3.963	1.00	0.00

ATOM	620	HA	PRO	38	6.413	15.183	-3.312	1.00	0.00
ATOM	621	C	PRO	38	8.012	14.412	-4.498	1.00	0.00
ATOM	622	O	PRO	38	8.725	13.424	-4.546	1.00	0.00
ATOM	623	N	GLN	39	8.437	15.601	-4.915	1.00	0.00
ATOM	624	H	GLN	39	7.808	16.390	-4.899	1.00	0.00
ATOM	625	CA	GLN	39	9.764	15.794	-5.452	1.00	0.00
ATOM	626	HA	GLN	39	9.921	15.133	-6.305	1.00	0.00
ATOM	627	CB	GLN	39	9.938	17.245	-5.918	1.00	0.00
ATOM	628	HB2	GLN	39	9.117	17.510	-6.585	1.00	0.00
ATOM	629	HB3	GLN	39	9.930	17.905	-5.051	1.00	0.00
ATOM	630	CG	GLN	39	11.269	17.396	-6.662	1.00	0.00
ATOM	631	HG2	GLN	39	11.400	16.566	-7.357	1.00	0.00
ATOM	632	HG3	GLN	39	11.231	18.333	-7.218	1.00	0.00
ATOM	633	CD	GLN	39	12.460	17.436	-5.725	1.00	0.00
ATOM	634	OE1	GLN	39	12.350	17.819	-4.563	1.00	0.00
ATOM	635	NE2	GLN	39	13.598	17.010	-6.228	1.00	0.00
ATOM	636	HE21	GLN	39	14.431	17.010	-5.657	1.00	0.00
ATOM	637	HE22	GLN	39	13.634	16.684	-7.184	1.00	0.00
ATOM	638	C	GLN	39	10.812	15.428	-4.414	1.00	0.00
ATOM	639	O	GLN	39	11.874	14.911	-4.755	1.00	0.00
ATOM	640	N	GLN	40	10.491	15.676	-3.140	1.00	0.00
ATOM	641	H	GLN	40	9.623	16.142	-2.918	1.00	0.00

ATOM	642	CA	GLN	40	11.388	15.353	-2.061	1.00	0.00
ATOM	643	HA	GLN	40	12.423	15.450	-2.390	1.00	0.00
ATOM	644	CB	GLN	40	11.154	16.311	-0.894	1.00	0.00
ATOM	645	HB2	GLN	40	10.934	17.304	-1.286	1.00	0.00
ATOM	646	HB3	GLN	40	10.307	15.957	-0.307	1.00	0.00
ATOM	647	CG	GLN	40	12.401	16.378	-0.003	1.00	0.00
ATOM	648	HG2	GLN	40	13.228	15.960	-0.578	1.00	0.00
ATOM	649	HG3	GLN	40	12.632	17.408	0.269	1.00	0.00
ATOM	650	CD	GLN	40	12.235	15.562	1.275	1.00	0.00
ATOM	651	OE1	GLN	40	11.159	15.116	1.654	1.00	0.00
ATOM	652	NE2	GLN	40	13.333	15.401	1.993	1.00	0.00
ATOM	653	HE21	GLN	40	13.298	14.871	2.852	1.00	0.00
ATOM	654	HE22	GLN	40	14.202	15.808	1.679	1.00	0.00
ATOM	655	C	GLN	40	11.215	13.901	-1.622	1.00	0.00
ATOM	656	O	GLN	40	11.938	13.408	-0.766	1.00	0.00
ATOM	657	N	GLY	41	10.234	13.208	-2.201	1.00	0.00
ATOM	658	H	GLY	41	9.643	13.681	-2.869	1.00	0.00
ATOM	659	CA	GLY	41	9.973	11.816	-1.922	1.00	0.00
ATOM	660	HA2	GLY	41	10.905	11.330	-1.634	1.00	0.00
ATOM	661	HA3	GLY	41	9.258	11.745	-1.103	1.00	0.00
ATOM	662	C	GLY	41	9.404	11.110	-3.135	1.00	0.00
ATOM	663	O	GLY	41	8.280	10.651	-3.130	1.00	0.00

ATOM	664	N	PRO	42	10.157	11.040	-4.232	1.00	0.00
ATOM	665	CD	PRO	42	11.498	11.569	-4.370	1.00	0.00
ATOM	666	HD2	PRO	42	12.156	10.992	-3.720	1.00	0.00
ATOM	667	HD3	PRO	42	11.485	12.608	-4.043	1.00	0.00
ATOM	668	CG	PRO	42	11.861	11.428	-5.845	1.00	0.00
ATOM	669	HG2	PRO	42	12.711	10.751	-5.939	1.00	0.00
ATOM	670	HG3	PRO	42	12.132	12.407	-6.239	1.00	0.00
ATOM	671	CB	PRO	42	10.624	10.874	-6.559	1.00	0.00
ATOM	672	HB2	PRO	42	10.893	10.044	-7.212	1.00	0.00
ATOM	673	HB3	PRO	42	10.119	11.645	-7.141	1.00	0.00
ATOM	674	CA	PRO	42	9.707	10.380	-5.444	1.00	0.00
ATOM	675	HA	PRO	42	8.694	10.718	-5.662	1.00	0.00
ATOM	676	C	PRO	42	9.716	8.874	-5.303	1.00	0.00
ATOM	677	O	PRO	42	8.877	8.183	-5.894	1.00	0.00
ATOM	678	N	SER	43	10.651	8.376	-4.501	1.00	0.00
ATOM	679	H	SER	43	11.313	9.007	-4.074	1.00	0.00
ATOM	680	CA	SER	43	10.799	6.961	-4.257	1.00	0.00
ATOM	681	HA	SER	43	10.696	6.418	-5.197	1.00	0.00
ATOM	682	CB	SER	43	12.171	6.642	-3.656	1.00	0.00
ATOM	683	HB2	SER	43	12.069	6.589	-2.572	1.00	0.00
ATOM	684	HB3	SER	43	12.498	5.674	-4.037	1.00	0.00
ATOM	685	OG	SER	43	13.132	7.633	-3.994	1.00	0.00

ATOM	686	HG	SER	43	13.978	7.404	-3.603	1.00	0.00
ATOM	687	C	SER	43	9.683	6.481	-3.336	1.00	0.00
ATOM	688	O	SER	43	9.892	6.170	-2.170	1.00	0.00
ATOM	689	N	LEU	44	8.456	6.436	-3.853	1.00	0.00
ATOM	690	H	LEU	44	8.313	6.744	-4.804	1.00	0.00
ATOM	691	CA	LEU	44	7.311	6.013	-3.095	1.00	0.00
ATOM	692	HA	LEU	44	7.635	5.549	-2.163	1.00	0.00
ATOM	693	CB	LEU	44	6.421	7.210	-2.762	1.00	0.00
ATOM	694	HB2	LEU	44	6.639	7.956	-3.526	1.00	0.00
ATOM	695	HB3	LEU	44	5.377	6.906	-2.839	1.00	0.00
ATOM	696	CG	LEU	44	6.679	7.812	-1.370	1.00	0.00
ATOM	697	HG	LEU	44	7.670	7.507	-1.035	1.00	0.00
ATOM	698	CD1	LEU	44	6.603	9.320	-1.410	1.00	0.00
ATOM	699	HD11	LEU	44	5.612	9.625	-1.745	1.00	0.00
ATOM	700	HD12	LEU	44	6.789	9.720	-0.414	1.00	0.00
ATOM	701	HD13	LEU	44	7.353	9.704	-2.101	1.00	0.00
ATOM	702	CD2	LEU	44	5.692	7.284	-0.351	1.00	0.00
ATOM	703	HD21	LEU	44	5.785	6.200	-0.282	1.00	0.00
ATOM	704	HD22	LEU	44	5.901	7.728	0.622	1.00	0.00
ATOM	705	HD23	LEU	44	4.679	7.542	-0.658	1.00	0.00
ATOM	706	C	LEU	44	6.583	4.986	-3.901	1.00	0.00
ATOM	707	O	LEU	44	6.169	4.018	-3.335	1.00	0.00

ATOM	708	N	ARG	45	6.419	5.158	-5.208	1.00	0.00
ATOM	709	H	ARG	45	6.788	5.999	-5.627	1.00	0.00
ATOM	710	CA	ARG	45	5.745	4.207	-6.061	1.00	0.00
ATOM	711	HA	ARG	45	4.732	4.038	-5.695	1.00	0.00
ATOM	712	CB	ARG	45	5.665	4.728	-7.492	1.00	0.00
ATOM	713	HB2	ARG	45	6.667	5.009	-7.817	1.00	0.00
ATOM	714	HB3	ARG	45	5.287	3.930	-8.132	1.00	0.00
ATOM	715	CG	ARG	45	4.742	5.937	-7.588	1.00	0.00
ATOM	716	HG2	ARG	45	5.251	6.795	-7.149	1.00	0.00
ATOM	717	HG3	ARG	45	4.541	6.134	-8.641	1.00	0.00
ATOM	718	CD	ARG	45	3.414	5.696	-6.849	1.00	0.00
ATOM	719	HD2	ARG	45	3.182	4.631	-6.850	1.00	0.00
ATOM	720	HD3	ARG	45	3.497	6.048	-5.821	1.00	0.00
ATOM	721	NE	ARG	45	2.315	6.418	-7.507	1.00	0.00
ATOM	722	HE	ARG	45	1.576	5.855	-7.904	1.00	0.00
ATOM	723	CZ	ARG	45	2.213	7.732	-7.579	1.00	0.00
ATOM	724	NH1	ARG	45	3.118	8.506	-7.017	1.00	0.00
ATOM	725	HH11	ARG	45	3.898	8.092	-6.526	1.00	0.00
ATOM	726	HH12	ARG	45	3.028	9.510	-7.080	1.00	0.00
ATOM	727	NH2	ARG	45	1.225	8.279	-8.248	1.00	0.00
ATOM	728	HH21	ARG	45	0.544	7.691	-8.707	1.00	0.00
ATOM	729	HH22	ARG	45	1.151	9.285	-8.301	1.00	0.00

ATOM	730	C	ARG	45	6.478	2.908	-6.080	1.00	0.00
ATOM	731	O	ARG	45	6.001	1.958	-5.533	1.00	0.00
ATOM	732	N	GLU	46	7.679	2.871	-6.620	1.00	0.00
ATOM	733	H	GLU	46	8.057	3.711	-7.033	1.00	0.00
ATOM	734	CA	GLU	46	8.474	1.655	-6.681	1.00	0.00
ATOM	735	HA	GLU	46	7.960	0.905	-7.282	1.00	0.00
ATOM	736	CB	GLU	46	9.838	1.944	-7.319	1.00	0.00
ATOM	737	HB2	GLU	46	10.304	2.776	-6.792	1.00	0.00
ATOM	738	HB3	GLU	46	10.466	1.058	-7.224	1.00	0.00
ATOM	739	CG	GLU	46	9.680	2.302	-8.802	1.00	0.00
ATOM	740	HG2	GLU	46	9.442	1.385	-9.342	1.00	0.00
ATOM	741	HG3	GLU	46	8.866	3.016	-8.925	1.00	0.00
ATOM	742	CD	GLU	46	10.971	2.900	-9.358	1.00	0.00
ATOM	743	OE1	GLU	46	11.473	3.860	-8.728	1.00	0.00
ATOM	744	OE2	GLU	46	11.423	2.409	-10.412	1.00	0.00
ATOM	745	C	GLU	46	8.667	1.068	-5.283	1.00	0.00
ATOM	746	O	GLU	46	8.946	-0.119	-5.142	1.00	0.00
ATOM	747	N	GLN	47	8.482	1.904	-4.249	1.00	0.00
ATOM	748	H	GLN	47	8.303	2.880	-4.434	1.00	0.00
ATOM	749	CA	GLN	47	8.581	1.480	-2.889	1.00	0.00
ATOM	750	HA	GLN	47	9.347	0.710	-2.795	1.00	0.00
ATOM	751	CB	GLN	47	8.959	2.654	-1.996	1.00	0.00



ATOM	752	HB2	GLN	47	8.912	3.574	-2.578	1.00	0.00
ATOM	753	HB3	GLN	47	8.254	2.712	-1.167	1.00	0.00
ATOM	754	CG	GLN	47	10.379	2.469	-1.447	1.00	0.00
ATOM	755	HG2	GLN	47	10.457	1.487	-0.979	1.00	0.00
ATOM	756	HG3	GLN	47	11.109	2.545	-2.253	1.00	0.00
ATOM	757	CD	GLN	47	10.694	3.531	-0.404	1.00	0.00
ATOM	758	OE1	GLN	47	11.653	4.280	-0.505	1.00	0.00
ATOM	759	NE2	GLN	47	9.868	3.582	0.630	1.00	0.00
ATOM	760	HE21	GLN	47	10.019	4.263	1.360	1.00	0.00
ATOM	761	HE22	GLN	47	9.091	2.939	0.684	1.00	0.00
ATOM	762	C	GLN	47	7.293	0.867	-2.433	1.00	0.00
ATOM	763	O	GLN	47	7.343	-0.231	-1.967	1.00	0.00
ATOM	764	N	CYX	48	6.158	1.523	-2.570	1.00	0.00
ATOM	765	H	CYX	48	6.247	2.451	-2.958	1.00	0.00
ATOM	766	CA	CYX	48	4.858	1.069	-2.193	1.00	0.00
ATOM	767	HA	CYX	48	4.898	0.708	-1.165	1.00	0.00
ATOM	768	CB	CYX	48	3.806	2.164	-2.283	1.00	0.00
ATOM	769	HB2	CYX	48	3.503	2.460	-1.279	1.00	0.00
ATOM	770	HB3	CYX	48	4.221	3.025	-2.806	1.00	0.00
ATOM	771	SG	CYX	48	2.271	1.734	-3.140	1.00	0.00
ATOM	772	C	CYX	48	4.482	-0.076	-3.075	1.00	0.00
ATOM	773	O	CYX	48	4.024	-1.081	-2.607	1.00	0.00

ATOM	774	N	CYX	49	4.711	0.011	-4.377	1.00	0.00
ATOM	775	H	CYX	49	5.071	0.893	-4.711	1.00	0.00
ATOM	776	CA	CYX	49	4.441	-1.024	-5.340	1.00	0.00
ATOM	777	HA	CYX	49	3.363	-1.163	-5.418	1.00	0.00
ATOM	778	CB	CYX	49	4.993	-0.680	-6.730	1.00	0.00
ATOM	779	HB2	CYX	49	6.074	-0.553	-6.671	1.00	0.00
ATOM	780	HB3	CYX	49	4.761	-1.488	-7.424	1.00	0.00
ATOM	781	SG	CYX	49	4.372	0.851	-7.483	1.00	0.00
ATOM	782	C	CYX	49	5.047	-2.324	-4.821	1.00	0.00
ATOM	783	O	CYX	49	4.597	-3.398	-5.191	1.00	0.00
ATOM	784	N	ASN	50	6.079	-2.228	-3.970	1.00	0.00
ATOM	785	H	ASN	50	6.451	-1.312	-3.765	1.00	0.00
ATOM	786	CA	ASN	50	6.667	-3.357	-3.325	1.00	0.00
ATOM	787	HA	ASN	50	6.402	-4.276	-3.848	1.00	0.00
ATOM	788	CB	ASN	50	8.183	-3.208	-3.341	1.00	0.00
ATOM	789	HB2	ASN	50	8.465	-2.191	-3.614	1.00	0.00
ATOM	790	HB3	ASN	50	8.567	-3.437	-2.347	1.00	0.00
ATOM	791	CG	ASN	50	8.807	-4.164	-4.331	1.00	0.00
ATOM	792	OD1	ASN	50	9.375	-5.188	-3.983	1.00	0.00
ATOM	793	ND2	ASN	50	8.675	-3.828	-5.601	1.00	0.00
ATOM	794	HD21	ASN	50	9.067	-4.420	-6.320	1.00	0.00
ATOM	795	HD22	ASN	50	8.183	-2.982	-5.848	1.00	0.00

ATOM	796	C	ASN	50	6.226	-3.459	-1.896	1.00	0.00
ATOM	797	O	ASN	50	5.988	-4.538	-1.444	1.00	0.00
ATOM	798	N	GLU	51	6.113	-2.370	-1.167	1.00	0.00
ATOM	799	H	GLU	51	6.409	-1.514	-1.612	1.00	0.00
ATOM	800	CA	GLU	51	5.697	-2.315	0.206	1.00	0.00
ATOM	801	HA	GLU	51	6.279	-3.032	0.785	1.00	0.00
ATOM	802	CB	GLU	51	5.901	-0.919	0.806	1.00	0.00
ATOM	803	HB2	GLU	51	6.474	-1.019	1.728	1.00	0.00
ATOM	804	HB3	GLU	51	6.462	-0.315	0.093	1.00	0.00
ATOM	805	CG	GLU	51	4.566	-0.242	1.108	1.00	0.00
ATOM	806	HG2	GLU	51	4.023	-0.254	0.162	1.00	0.00
ATOM	807	HG3	GLU	51	3.985	-0.767	1.866	1.00	0.00
ATOM	808	CD	GLU	51	4.783	1.162	1.536	1.00	0.00
ATOM	809	OE1	GLU	51	5.048	1.462	2.717	1.00	0.00
ATOM	810	OE2	GLU	51	4.589	2.002	0.665	1.00	0.00
ATOM	811	C	GLU	51	4.244	-2.773	0.325	1.00	0.00
ATOM	812	O	GLU	51	3.747	-3.000	1.418	1.00	0.00
ATOM	813	N	LEU	52	3.550	-2.898	-0.800	1.00	0.00
ATOM	814	H	LEU	52	3.985	-2.584	-1.656	1.00	0.00
ATOM	815	CA	LEU	52	2.182	-3.310	-0.846	1.00	0.00
ATOM	816	HA	LEU	52	1.758	-3.318	0.158	1.00	0.00
ATOM	817	CB	LEU	52	1.374	-2.332	-1.712	1.00	0.00

ATOM	818	HB2 LEU	52	0.494	-2.162	-1.092	1.00	0.00
ATOM	819	HB3 LEU	52	1.920	-1.396	-1.831	1.00	0.00
ATOM	820	CG LEU	52	0.938	-2.847	-3.088	1.00	0.00
ATOM	821	HG LEU	52	0.571	-1.998	-3.665	1.00	0.00
ATOM	822	CD1 LEU	52	2.067	-3.514	-3.837	1.00	0.00
ATOM	823	HD11 LEU	52	2.434	-4.364	-3.261	1.00	0.00
ATOM	824	HD12 LEU	52	1.706	-3.861	-4.805	1.00	0.00
ATOM	825	HD13 LEU	52	2.877	-2.800	-3.986	1.00	0.00
ATOM	826	CD2 LEU	52	-0.262	-3.760	-2.964	1.00	0.00
ATOM	827	HD21 LEU	52	-1.091	-3.213	-2.515	1.00	0.00
ATOM	828	HD22 LEU	52	-0.554	-4.114	-3.953	1.00	0.00
ATOM	829	HD23 LEU	52	-0.007	-4.613	-2.335	1.00	0.00
ATOM	830	C LEU	52	2.131	-4.766	-1.278	1.00	0.00
ATOM	831	O LEU	52	1.137	-5.426	-1.032	1.00	0.00
ATOM	832	N TYR	53	3.190	-5.247	-1.940	1.00	0.00
ATOM	833	H TYR	53	4.007	-4.660	-2.021	1.00	0.00
ATOM	834	CA TYR	53	3.240	-6.560	-2.505	1.00	0.00
ATOM	835	HA TYR	53	2.235	-6.953	-2.658	1.00	0.00
ATOM	836	CB TYR	53	3.945	-6.481	-3.859	1.00	0.00
ATOM	837	HB2 TYR	53	3.470	-5.675	-4.418	1.00	0.00
ATOM	838	HB3 TYR	53	4.986	-6.224	-3.665	1.00	0.00
ATOM	839	CG TYR	53	3.883	-7.760	-4.669	1.00	0.00

ATOM	840	CD1 TYR	53	2.644	-8.303	-5.040	1.00	0.00
ATOM	841	HD1 TYR	53	1.731	-7.792	-4.735	1.00	0.00
ATOM	842	CE1 TYR	53	2.568	-9.485	-5.791	1.00	0.00
ATOM	843	HE1 TYR	53	1.604	-9.895	-6.093	1.00	0.00
ATOM	844	CZ TYR	53	3.758	-10.136	-6.166	1.00	0.00
ATOM	845	OH TYR	53	3.701	-11.292	-6.876	1.00	0.00
ATOM	846	HH TYR	53	2.802	-11.572	-7.066	1.00	0.00
ATOM	847	CE2 TYR	53	5.010	-9.603	-5.798	1.00	0.00
ATOM	848	HE2 TYR	53	5.931	-10.109	-6.089	1.00	0.00
ATOM	849	CD2 TYR	53	5.067	-8.411	-5.050	1.00	0.00
ATOM	850	HD2 TYR	53	6.032	-7.992	-4.766	1.00	0.00
ATOM	851	C TYR	53	4.038	-7.440	-1.596	1.00	0.00
ATOM	852	O TYR	53	3.825	-8.632	-1.558	1.00	0.00
ATOM	853	N GLN	54	4.994	-6.877	-0.869	1.00	0.00
ATOM	854	H GLN	54	5.144	-5.887	-1.003	1.00	0.00
ATOM	855	CA GLN	54	5.848	-7.577	0.049	1.00	0.00
ATOM	856	HA GLN	54	6.474	-8.279	-0.502	1.00	0.00
ATOM	857	CB GLN	54	6.756	-6.607	0.815	1.00	0.00
ATOM	858	HB2 GLN	54	7.313	-7.175	1.560	1.00	0.00
ATOM	859	HB3 GLN	54	7.452	-6.157	0.107	1.00	0.00
ATOM	860	CG GLN	54	5.951	-5.507	1.509	1.00	0.00
ATOM	861	HG2 GLN	54	5.471	-4.858	0.776	1.00	0.00

ATOM	862	HG3	GLN	54	5.188	-5.995	2.116	1.00	0.00
ATOM	863	CD	GLN	54	6.818	-4.658	2.413	1.00	0.00
ATOM	864	OE1	GLN	54	7.984	-4.389	2.139	1.00	0.00
ATOM	865	NE2	GLN	54	6.233	-4.188	3.492	1.00	0.00
ATOM	866	HE21	GLN	54	6.757	-3.614	4.137	1.00	0.00
ATOM	867	HE22	GLN	54	5.262	-4.403	3.671	1.00	0.00
ATOM	868	C	GLN	54	4.998	-8.382	1.020	1.00	0.00
ATOM	869	O	GLN	54	5.445	-9.408	1.517	1.00	0.00
ATOM	870	N	GLU	55	3.763	-7.924	1.255	1.00	0.00
ATOM	871	H	GLU	55	3.492	-7.028	0.875	1.00	0.00
ATOM	872	CA	GLU	55	2.835	-8.610	2.108	1.00	0.00
ATOM	873	HA	GLU	55	3.373	-9.126	2.903	1.00	0.00
ATOM	874	CB	GLU	55	1.871	-7.622	2.737	1.00	0.00
ATOM	875	HB2	GLU	55	1.173	-7.287	1.969	1.00	0.00
ATOM	876	HB3	GLU	55	1.322	-8.134	3.527	1.00	0.00
ATOM	877	CG	GLU	55	2.598	-6.420	3.321	1.00	0.00
ATOM	878	HG2	GLU	55	3.529	-6.815	3.726	1.00	0.00
ATOM	879	HG3	GLU	55	2.822	-5.671	2.562	1.00	0.00
ATOM	880	CD	GLU	55	1.794	-5.787	4.432	1.00	0.00
ATOM	881	OE1	GLU	55	0.854	-6.410	4.959	1.00	0.00
ATOM	882	OE2	GLU	55	2.108	-4.622	4.678	1.00	0.00
ATOM	883	C	GLU	55	2.108	-9.705	1.359	1.00	0.00

ATOM	884	O	GLU	55	1.072	-10.165	1.797	1.00	0.00
ATOM	885	N	ASP	56	2.641	-10.153	0.233	1.00	0.00
ATOM	886	H	ASP	56	3.530	-9.756	-0.035	1.00	0.00
ATOM	887	CA	ASP	56	2.054	-11.143	-0.622	1.00	0.00
ATOM	888	HA	ASP	56	2.805	-11.562	-1.292	1.00	0.00
ATOM	889	CB	ASP	56	1.479	-12.275	0.237	1.00	0.00
ATOM	890	HB2	ASP	56	2.169	-12.307	1.080	1.00	0.00
ATOM	891	HB3	ASP	56	0.481	-12.020	0.593	1.00	0.00
ATOM	892	CG	ASP	56	1.442	-13.627	-0.434	1.00	0.00
ATOM	893	OD1	ASP	56	1.876	-13.714	-1.603	1.00	0.00
ATOM	894	OD2	ASP	56	0.887	-14.558	0.184	1.00	0.00
ATOM	895	C	ASP	56	0.940	-10.524	-1.454	1.00	0.00
ATOM	896	O	ASP	56	0.714	-9.307	-1.481	1.00	0.00
ATOM	897	N	GLN	57	0.176	-11.383	-2.140	1.00	0.00
ATOM	898	H	GLN	57	0.406	-12.367	-2.132	1.00	0.00
ATOM	899	CA	GLN	57	-0.940	-10.949	-2.942	1.00	0.00
ATOM	900	HA	GLN	57	-0.770	-9.934	-3.301	1.00	0.00
ATOM	901	CB	GLN	57	-1.107	-11.873	-4.149	1.00	0.00
ATOM	902	HB2	GLN	57	-0.187	-12.439	-4.294	1.00	0.00
ATOM	903	HB3	GLN	57	-1.930	-12.562	-3.959	1.00	0.00
ATOM	904	CG	GLN	57	-1.406	-11.058	-5.406	1.00	0.00
ATOM	905	HG2	GLN	57	-0.797	-10.154	-5.389	1.00	0.00

ATOM	906	HG3	GLN	57	-1.175	-11.635	-6.302	1.00	0.00
ATOM	907	CD	GLN	57	-2.860	-10.659	-5.452	1.00	0.00
ATOM	908	OE1	GLN	57	-3.751	-11.457	-5.596	1.00	0.00
ATOM	909	NE2	GLN	57	-3.128	-9.386	-5.352	1.00	0.00
ATOM	910	HE21	GLN	57	-4.088	-9.072	-5.378	1.00	0.00
ATOM	911	HE22	GLN	57	-2.375	-8.721	-5.249	1.00	0.00
ATOM	912	C	GLN	57	-2.216	-10.908	-2.128	1.00	0.00
ATOM	913	O	GLN	57	-3.147	-10.166	-2.421	1.00	0.00
ATOM	914	N	VAL	58	-2.256	-11.684	-1.053	1.00	0.00
ATOM	915	H	VAL	58	-1.478	-12.304	-0.879	1.00	0.00
ATOM	916	CA	VAL	58	-3.400	-11.751	-0.164	1.00	0.00
ATOM	917	HA	VAL	58	-4.338	-11.741	-0.719	1.00	0.00
ATOM	918	CB	VAL	58	-3.348	-13.026	0.687	1.00	0.00
ATOM	919	HB	VAL	58	-3.009	-12.772	1.691	1.00	0.00
ATOM	920	CG1	VAL	58	-4.737	-13.667	0.764	1.00	0.00
ATOM	921	HG11	VAL	58	-5.076	-13.922	-0.240	1.00	0.00
ATOM	922	HG12	VAL	58	-4.687	-14.572	1.371	1.00	0.00
ATOM	923	HG13	VAL	58	-5.437	-12.965	1.216	1.00	0.00
ATOM	924	CG2	VAL	58	-2.341	-14.035	0.125	1.00	0.00
ATOM	925	HG21	VAL	58	-1.347	-13.589	0.112	1.00	0.00
ATOM	926	HG22	VAL	58	-2.330	-14.927	0.752	1.00	0.00
ATOM	927	HG23	VAL	58	-2.629	-14.310	-0.890	1.00	0.00



ATOM	928	C	VAL	58	-3.445	-10.491	0.679	1.00	0.00
ATOM	929	O	VAL	58	-4.388	-10.316	1.448	1.00	0.00
ATOM	930	N	CYX	59	-2.460	-9.605	0.503	1.00	0.00
ATOM	931	H	CYX	59	-1.721	-9.827	-0.148	1.00	0.00
ATOM	932	CA	CYX	59	-2.385	-8.368	1.219	1.00	0.00
ATOM	933	HA	CYX	59	-3.215	-8.301	1.922	1.00	0.00
ATOM	934	CB	CYX	59	-1.095	-8.272	1.988	1.00	0.00
ATOM	935	HB2	CYX	59	-0.275	-8.636	1.369	1.00	0.00
ATOM	936	HB3	CYX	59	-0.910	-7.233	2.261	1.00	0.00
ATOM	937	SG	CYX	59	-1.019	-9.246	3.535	1.00	0.00
ATOM	938	C	CYX	59	-2.496	-7.218	0.249	1.00	0.00
ATOM	939	O	CYX	59	-3.081	-6.181	0.577	1.00	0.00
ATOM	940	N	VAL	60	-2.053	-7.429	-0.999	1.00	0.00
ATOM	941	H	VAL	60	-1.585	-8.298	-1.213	1.00	0.00
ATOM	942	CA	VAL	60	-2.155	-6.432	-2.040	1.00	0.00
ATOM	943	HA	VAL	60	-1.539	-5.551	-1.864	1.00	0.00
ATOM	944	CB	VAL	60	-1.764	-7.039	-3.382	1.00	0.00
ATOM	945	HB	VAL	60	-2.117	-8.070	-3.417	1.00	0.00
ATOM	946	CG1	VAL	60	-2.377	-6.253	-4.536	1.00	0.00
ATOM	947	HG11	VAL	60	-2.024	-5.223	-4.503	1.00	0.00
ATOM	948	HG12	VAL	60	-2.083	-6.707	-5.482	1.00	0.00
ATOM	949	HG13	VAL	60	-3.464	-6.268	-4.449	1.00	0.00

ATOM	950	CG2 VAL	60	-0.260	-7.136	-3.518	1.00	0.00
ATOM	951	HG21 VAL	60	0.137	-7.766	-2.722	1.00	0.00
ATOM	952	HG22 VAL	60	-0.010	-7.573	-4.485	1.00	0.00
ATOM	953	HG23 VAL	60	0.177	-6.140	-3.446	1.00	0.00
ATOM	954	C VAL	60	-3.555	-5.863	-2.070	1.00	0.00
ATOM	955	O VAL	60	-3.753	-4.738	-2.495	1.00	0.00
ATOM	956	N CYX	61	-4.547	-6.638	-1.639	1.00	0.00
ATOM	957	H CYX	61	-4.328	-7.602	-1.430	1.00	0.00
ATOM	958	CA CYX	61	-5.894	-6.216	-1.528	1.00	0.00
ATOM	959	HA CYX	61	-5.997	-5.490	-0.722	1.00	0.00
ATOM	960	CB CYX	61	-6.331	-5.562	-2.831	1.00	0.00
ATOM	961	HB2 CYX	61	-5.566	-5.719	-3.591	1.00	0.00
ATOM	962	HB3 CYX	61	-7.269	-6.006	-3.164	1.00	0.00
ATOM	963	SG CYX	61	-6.603	-3.772	-2.775	1.00	0.00
ATOM	964	C CYX	61	-6.757	-7.414	-1.152	1.00	0.00
ATOM	965	O CYX	61	-6.305	-8.537	-1.252	1.00	0.00
ATOM	966	N PRO	62	-8.006	-7.158	-0.729	1.00	0.00
ATOM	967	CD PRO	62	-9.015	-8.111	-0.312	1.00	0.00
ATOM	968	HD2 PRO	62	-8.661	-8.609	0.591	1.00	0.00
ATOM	969	HD3 PRO	62	-9.139	-8.847	-1.107	1.00	0.00
ATOM	970	CG PRO	62	-10.289	-7.289	-0.071	1.00	0.00
ATOM	971	HG2 PRO	62	-10.573	-7.383	0.977	1.00	0.00

ATOM	972	HG3 PRO	62	-11.086	-7.686	-0.700	1.00	0.00
ATOM	973	CB PRO	62	-9.976	-5.837	-0.437	1.00	0.00
ATOM	974	HB2 PRO	62	-10.322	-5.127	0.313	1.00	0.00
ATOM	975	HB3 PRO	62	-10.412	-5.585	-1.404	1.00	0.00
ATOM	976	CA PRO	62	-8.465	-5.797	-0.525	1.00	0.00
ATOM	977	HA PRO	62	-8.230	-5.224	-1.422	1.00	0.00
ATOM	978	C PRO	62	-7.825	-5.153	0.659	1.00	0.00
ATOM	979	O PRO	62	-8.112	-4.034	0.953	1.00	0.00
ATOM	980	N THR	63	-6.993	-5.865	1.374	1.00	0.00
ATOM	981	H THR	63	-6.900	-6.833	1.100	1.00	0.00
ATOM	982	CA THR	63	-6.258	-5.408	2.527	1.00	0.00
ATOM	983	HA THR	63	-6.961	-5.501	3.355	1.00	0.00
ATOM	984	CB THR	63	-5.078	-6.340	2.783	1.00	0.00
ATOM	985	HB THR	63	-4.169	-5.832	2.461	1.00	0.00
ATOM	986	CG2 THR	63	-4.954	-6.718	4.235	1.00	0.00
ATOM	987	HG21 THR	63	-5.862	-7.227	4.557	1.00	0.00
ATOM	988	HG22 THR	63	-4.100	-7.382	4.366	1.00	0.00
ATOM	989	HG23 THR	63	-4.810	-5.819	4.834	1.00	0.00
ATOM	990	OG1 THR	63	-5.393	-7.563	2.130	1.00	0.00
ATOM	991	HG1 THR	63	-4.677	-8.190	2.261	1.00	0.00
ATOM	992	C THR	63	-5.788	-4.000	2.354	1.00	0.00
ATOM	993	O THR	63	-6.103	-3.223	3.231	1.00	0.00

ATOM	994	N	LEU	64	-5.187	-3.651	1.217	1.00	0.00
ATOM	995	H	LEU	64	-5.001	-4.376	0.538	1.00	0.00
ATOM	996	CA	LEU	64	-4.747	-2.302	0.921	1.00	0.00
ATOM	997	HA	LEU	64	-3.879	-2.048	1.529	1.00	0.00
ATOM	998	CB	LEU	64	-4.358	-2.197	-0.552	1.00	0.00
ATOM	999	HB2	LEU	64	-4.177	-3.226	-0.862	1.00	0.00
ATOM	1000	HB3	LEU	64	-5.193	-1.789	-1.121	1.00	0.00
ATOM	1001	CG	LEU	64	-3.102	-1.356	-0.813	1.00	0.00
ATOM	1002	HG	LEU	64	-2.460	-1.396	0.067	1.00	0.00
ATOM	1003	CD1	LEU	64	-2.348	-1.886	-2.011	1.00	0.00
ATOM	1004	HD11	LEU	64	-2.989	-1.846	-2.892	1.00	0.00
ATOM	1005	HD12	LEU	64	-1.460	-1.277	-2.181	1.00	0.00
ATOM	1006	HD13	LEU	64	-2.050	-2.918	-1.826	1.00	0.00
ATOM	1007	CD2	LEU	64	-3.456	0.115	-1.011	1.00	0.00
ATOM	1008	HD21	LEU	64	-3.949	0.494	-0.116	1.00	0.00
ATOM	1009	HD22	LEU	64	-2.546	0.686	-1.194	1.00	0.00
ATOM	1010	HD23	LEU	64	-4.126	0.216	-1.865	1.00	0.00
ATOM	1011	C	LEU	64	-5.822	-1.293	1.249	1.00	0.00
ATOM	1012	O	LEU	64	-5.508	-0.275	1.854	1.00	0.00
ATOM	1013	N	LYS	65	-7.093	-1.623	0.959	1.00	0.00
ATOM	1014	H	LYS	65	-7.236	-2.444	0.387	1.00	0.00
ATOM	1015	CA	LYS	65	-8.243	-0.830	1.315	1.00	0.00

ATOM	1016	HA	LYS	65	-8.299	0.039	0.659	1.00	0.00
ATOM	1017	CB	LYS	65	-9.544	-1.633	1.176	1.00	0.00
ATOM	1018	HB2	LYS	65	-9.658	-1.939	0.136	1.00	0.00
ATOM	1019	HB3	LYS	65	-9.479	-2.518	1.809	1.00	0.00
ATOM	1020	CG	LYS	65	-10.747	-0.797	1.594	1.00	0.00
ATOM	1021	HG2	LYS	65	-10.484	0.257	1.507	1.00	0.00
ATOM	1022	HG3	LYS	65	-11.576	-1.021	0.922	1.00	0.00
ATOM	1023	CD	LYS	65	-11.164	-1.102	3.039	1.00	0.00
ATOM	1024	HD2	LYS	65	-10.349	-1.622	3.542	1.00	0.00
ATOM	1025	HD3	LYS	65	-11.370	-0.165	3.555	1.00	0.00
ATOM	1026	CE	LYS	65	-12.416	-1.980	3.058	1.00	0.00
ATOM	1027	HE2	LYS	65	-12.978	-1.819	2.138	1.00	0.00
ATOM	1028	HE3	LYS	65	-12.117	-3.026	3.121	1.00	0.00
ATOM	1029	NZ	LYS	65	-13.263	-1.640	4.218	1.00	0.00
ATOM	1030	HZ1	LYS	65	-13.541	-0.671	4.159	1.00	0.00
ATOM	1031	HZ2	LYS	65	-14.085	-2.227	4.218	1.00	0.00
ATOM	1032	HZ3	LYS	65	-12.742	-1.790	5.070	1.00	0.00
ATOM	1033	C	LYS	65	-8.062	-0.259	2.703	1.00	0.00
ATOM	1034	O	LYS	65	-8.510	0.819	2.942	1.00	0.00
ATOM	1035	N	GLN	66	-7.430	-0.955	3.627	1.00	0.00
ATOM	1036	H	GLN	66	-7.242	-1.917	3.383	1.00	0.00
ATOM	1037	CA	GLN	66	-7.076	-0.510	4.924	1.00	0.00

ATOM	1038	HA	GLN	66	-7.963	-0.134	5.434	1.00	0.00
ATOM	1039	CB	GLN	66	-6.480	-1.650	5.756	1.00	0.00
ATOM	1040	HB2	GLN	66	-7.187	-2.479	5.788	1.00	0.00
ATOM	1041	HB3	GLN	66	-5.550	-1.984	5.295	1.00	0.00
ATOM	1042	CG	GLN	66	-6.196	-1.162	7.189	1.00	0.00
ATOM	1043	HG2	GLN	66	-5.918	-1.971	7.865	1.00	0.00
ATOM	1044	HG3	GLN	66	-5.368	-0.458	7.106	1.00	0.00
ATOM	1045	CD	GLN	66	-7.401	-0.431	7.773	1.00	0.00
ATOM	1046	OE1	GLN	66	-7.288	0.602	8.409	1.00	0.00
ATOM	1047	NE2	GLN	66	-8.589	-0.945	7.467	1.00	0.00
ATOM	1048	HE21	GLN	66	-9.430	-0.511	7.820	1.00	0.00
ATOM	1049	HE22	GLN	66	-8.645	-1.767	6.883	1.00	0.00
ATOM	1050	C	GLN	66	-6.130	0.664	4.906	1.00	0.00
ATOM	1051	O	GLN	66	-6.521	1.767	5.267	1.00	0.00
ATOM	1052	N	ALA	67	-4.875	0.441	4.522	1.00	0.00
ATOM	1053	H	ALA	67	-4.576	-0.506	4.335	1.00	0.00
ATOM	1054	CA	ALA	67	-3.899	1.500	4.420	1.00	0.00
ATOM	1055	HA	ALA	67	-3.680	1.911	5.405	1.00	0.00
ATOM	1056	CB	ALA	67	-2.611	0.940	3.829	1.00	0.00
ATOM	1057	HB1	ALA	67	-2.812	0.533	2.838	1.00	0.00
ATOM	1058	HB2	ALA	67	-1.870	1.736	3.751	1.00	0.00
ATOM	1059	HB3	ALA	67	-2.228	0.150	4.475	1.00	0.00

ATOM	1060	C	ALA	67	-4.452	2.644	3.577	1.00	0.00
ATOM	1061	O	ALA	67	-4.074	3.786	3.773	1.00	0.00
ATOM	1062	N	ALA	68	-5.429	2.369	2.720	1.00	0.00
ATOM	1063	H	ALA	68	-5.704	1.404	2.605	1.00	0.00
ATOM	1064	CA	ALA	68	-6.073	3.360	1.911	1.00	0.00
ATOM	1065	HA	ALA	68	-5.383	4.172	1.680	1.00	0.00
ATOM	1066	CB	ALA	68	-6.511	2.707	0.606	1.00	0.00
ATOM	1067	HB1	ALA	68	-7.209	1.898	0.820	1.00	0.00
ATOM	1068	HB2	ALA	68	-6.999	3.449	-0.027	1.00	0.00
ATOM	1069	HB3	ALA	68	-5.639	2.306	0.089	1.00	0.00
ATOM	1070	C	ALA	68	-7.252	3.978	2.649	1.00	0.00
ATOM	1071	O	ALA	68	-7.624	5.129	2.448	1.00	0.00
ATOM	1072	N	LYS	69	-7.864	3.237	3.561	1.00	0.00
ATOM	1073	H	LYS	69	-7.565	2.276	3.644	1.00	0.00
ATOM	1074	CA	LYS	69	-8.968	3.678	4.364	1.00	0.00
ATOM	1075	HA	LYS	69	-9.670	4.236	3.744	1.00	0.00
ATOM	1076	CB	LYS	69	-9.706	2.485	4.988	1.00	0.00
ATOM	1077	HB2	LYS	69	-10.064	1.836	4.189	1.00	0.00
ATOM	1078	HB3	LYS	69	-9.010	1.932	5.620	1.00	0.00
ATOM	1079	CG	LYS	69	-10.893	2.959	5.830	1.00	0.00
ATOM	1080	HG2	LYS	69	-11.520	2.098	6.064	1.00	0.00
ATOM	1081	HG3	LYS	69	-10.513	3.393	6.755	1.00	0.00

ATOM	1082	CD	LYS	69	-11.724	4.008	5.075	1.00	0.00
ATOM	1083	HD2	LYS	69	-11.181	4.953	5.081	1.00	0.00
ATOM	1084	HD3	LYS	69	-11.856	3.672	4.046	1.00	0.00
ATOM	1085	CE	LYS	69	-13.086	4.202	5.724	1.00	0.00
ATOM	1086	HE2	LYS	69	-13.814	3.574	5.210	1.00	0.00
ATOM	1087	HE3	LYS	69	-13.024	3.903	6.770	1.00	0.00
ATOM	1088	NZ	LYS	69	-13.508	5.613	5.640	1.00	0.00
ATOM	1089	HZ1	LYS	69	-13.566	5.889	4.670	1.00	0.00
ATOM	1090	HZ2	LYS	69	-14.413	5.720	6.076	1.00	0.00
ATOM	1091	HZ3	LYS	69	-12.834	6.195	6.116	1.00	0.00
ATOM	1092	C	LYS	69	-8.457	4.649	5.399	1.00	0.00
ATOM	1093	O	LYS	69	-9.143	5.599	5.717	1.00	0.00
ATOM	1094	N	SER	70	-7.236	4.463	5.884	1.00	0.00
ATOM	1095	H	SER	70	-6.717	3.648	5.590	1.00	0.00
ATOM	1096	CA	SER	70	-6.630	5.349	6.854	1.00	0.00
ATOM	1097	HA	SER	70	-7.398	5.965	7.322	1.00	0.00
ATOM	1098	CB	SER	70	-5.921	4.548	7.938	1.00	0.00
ATOM	1099	HB2	SER	70	-6.637	3.856	8.382	1.00	0.00
ATOM	1100	HB3	SER	70	-5.109	3.984	7.478	1.00	0.00
ATOM	1101	OG	SER	70	-5.395	5.397	8.947	1.00	0.00
ATOM	1102	HG	SER	70	-4.955	4.866	9.615	1.00	0.00
ATOM	1103	C	SER	70	-5.659	6.286	6.162	1.00	0.00



ATOM	1104	O	SER	70	-4.855	6.974	6.793	1.00	0.00
ATOM	1105	N	VAL	71	-5.719	6.339	4.826	1.00	0.00
ATOM	1106	H	VAL	71	-6.335	5.709	4.332	1.00	0.00
ATOM	1107	CA	VAL	71	-4.863	7.211	4.050	1.00	0.00
ATOM	1108	HA	VAL	71	-3.806	7.113	4.297	1.00	0.00
ATOM	1109	CB	VAL	71	-5.044	6.927	2.559	1.00	0.00
ATOM	1110	HB	VAL	71	-5.512	5.948	2.446	1.00	0.00
ATOM	1111	CG1	VAL	71	-5.907	7.975	1.902	1.00	0.00
ATOM	1112	HG11	VAL	71	-5.440	8.953	2.014	1.00	0.00
ATOM	1113	HG12	VAL	71	-6.016	7.744	0.842	1.00	0.00
ATOM	1114	HG13	VAL	71	-6.889	7.985	2.374	1.00	0.00
ATOM	1115	CG2	VAL	71	-3.713	6.809	1.845	1.00	0.00
ATOM	1116	HG21	VAL	71	-3.137	5.993	2.282	1.00	0.00
ATOM	1117	HG22	VAL	71	-3.884	6.607	0.787	1.00	0.00
ATOM	1118	HG23	VAL	71	-3.159	7.741	1.951	1.00	0.00
ATOM	1119	C	VAL	71	-5.172	8.654	4.422	1.00	0.00
ATOM	1120	O	VAL	71	-4.462	9.578	4.084	1.00	0.00
ATOM	1121	N	ARG	72	-6.298	8.908	5.082	1.00	0.00
ATOM	1122	H	ARG	72	-6.931	8.143	5.269	1.00	0.00
ATOM	1123	CA	ARG	72	-6.677	10.226	5.512	1.00	0.00
ATOM	1124	HA	ARG	72	-5.799	10.795	5.817	1.00	0.00
ATOM	1125	CB	ARG	72	-7.353	10.955	4.348	1.00	0.00

ATOM	1126	HB2	ARG	72	-7.334	10.312	3.467	1.00	0.00
ATOM	1127	HB3	ARG	72	-8.387	11.171	4.617	1.00	0.00
ATOM	1128	CG	ARG	72	-6.623	12.261	4.041	1.00	0.00
ATOM	1129	HG2	ARG	72	-5.691	12.275	4.605	1.00	0.00
ATOM	1130	HG3	ARG	72	-6.402	12.289	2.974	1.00	0.00
ATOM	1131	CD	ARG	72	-7.462	13.475	4.417	1.00	0.00
ATOM	1132	HD2	ARG	72	-8.195	13.655	3.630	1.00	0.00
ATOM	1133	HD3	ARG	72	-7.979	13.269	5.354	1.00	0.00
ATOM	1134	NE	ARG	72	-6.647	14.682	4.585	1.00	0.00
ATOM	1135	HE	ARG	72	-6.694	15.369	3.847	1.00	0.00
ATOM	1136	CZ	ARG	72	-5.854	14.919	5.622	1.00	0.00
ATOM	1137	NH1	ARG	72	-5.795	14.062	6.617	1.00	0.00
ATOM	1138	HH11	ARG	72	-6.355	13.222	6.590	1.00	0.00
ATOM	1139	HH12	ARG	72	-5.190	14.247	7.404	1.00	0.00
ATOM	1140	NH2	ARG	72	-5.139	16.014	5.663	1.00	0.00
ATOM	1141	HH21	ARG	72	-5.193	16.677	4.903	1.00	0.00
ATOM	1142	HH22	ARG	72	-4.537	16.190	6.454	1.00	0.00
ATOM	1143	C	ARG	72	-7.602	10.133	6.697	1.00	0.00
ATOM	1144	O	ARG	72	-7.197	10.475	7.800	1.00	0.00
ATOM	1145	N	VAL	73	-8.867	9.766	6.431	1.00	0.00
ATOM	1146	H	VAL	73	-9.141	9.612	5.471	1.00	0.00
ATOM	1147	CA	VAL	73	-9.879	9.665	7.456	1.00	0.00

ATOM	1148	HA	VAL	73	-10.163	10.634	7.866	1.00	0.00
ATOM	1149	CB	VAL	73	-11.127	8.993	6.883	1.00	0.00
ATOM	1150	HB	VAL	73	-11.297	9.388	5.882	1.00	0.00
ATOM	1151	CG1	VAL	73	-10.979	7.480	6.812	1.00	0.00
ATOM	1152	HG11	VAL	73	-10.809	7.083	7.813	1.00	0.00
ATOM	1153	HG12	VAL	73	-11.889	7.044	6.399	1.00	0.00
ATOM	1154	HG13	VAL	73	-10.133	7.226	6.173	1.00	0.00
ATOM	1155	CG2	VAL	73	-12.366	9.358	7.704	1.00	0.00
ATOM	1156	HG21	VAL	73	-12.509	10.438	7.686	1.00	0.00
ATOM	1157	HG22	VAL	73	-13.242	8.868	7.278	1.00	0.00
ATOM	1158	HG23	VAL	73	-12.231	9.027	8.734	1.00	0.00
ATOM	1159	C	VAL	73	-9.298	8.918	8.655	1.00	0.00
ATOM	1160	O	VAL	73	-8.332	8.155	8.532	1.00	0.00
ATOM	1161	N	GLN	74	-9.926	9.107	9.801	1.00	0.00
ATOM	1162	H	GLN	74	-10.701	9.752	9.856	1.00	0.00
ATOM	1163	CA	GLN	74	-9.482	8.462	11.019	1.00	0.00
ATOM	1164	HA	GLN	74	-9.498	7.379	10.890	1.00	0.00
ATOM	1165	CB	GLN	74	-8.052	8.893	11.365	1.00	0.00
ATOM	1166	HB2	GLN	74	-7.568	9.277	10.467	1.00	0.00
ATOM	1167	HB3	GLN	74	-8.089	9.677	12.121	1.00	0.00
ATOM	1168	CG	GLN	74	-7.255	7.700	11.904	1.00	0.00
ATOM	1169	HG2	GLN	74	-7.949	7.013	12.389	1.00	0.00

ATOM	1170	HG3	GLN	74	-6.748	7.186	11.087	1.00	0.00
ATOM	1171	CD	GLN	74	-6.213	8.139	12.923	1.00	0.00
ATOM	1172	OE1	GLN	74	-5.870	9.306	13.052	1.00	0.00
ATOM	1173	NE2	GLN	74	-5.682	7.172	13.649	1.00	0.00
ATOM	1174	HE21	GLN	74	-4.984	7.392	14.345	1.00	0.00
ATOM	1175	HE22	GLN	74	-5.977	6.216	13.505	1.00	0.00
ATOM	1176	C	GLN	74	-10.440	8.764	12.167	1.00	0.00
ATOM	1177	O	GLN	74	-10.044	8.940	13.313	1.00	0.00
ATOM	1178	N	GLY	75	-11.728	8.892	11.835	1.00	0.00
ATOM	1179	H	GLY	75	-12.009	8.787	10.870	1.00	0.00
ATOM	1180	CA	GLY	75	-12.749	9.179	12.820	1.00	0.00
ATOM	1181	HA2	GLY	75	-12.864	8.319	13.480	1.00	0.00
ATOM	1182	HA3	GLY	75	-12.450	10.048	13.405	1.00	0.00
ATOM	1183	C	GLY	75	-14.072	9.467	12.154	1.00	0.00
ATOM	1184	O	GLY	75	-15.060	8.791	12.424	1.00	0.00
ATOM	1185	N	GLN	76	-14.072	10.427	11.216	1.00	0.00
ATOM	1186	H	GLN	76	-13.220	10.933	11.023	1.00	0.00
ATOM	1187	CA	GLN	76	-15.274	10.810	10.505	1.00	0.00
ATOM	1188	HA	GLN	76	-15.586	9.991	9.857	1.00	0.00
ATOM	1189	CB	GLN	76	-16.419	11.133	11.473	1.00	0.00
ATOM	1190	HB2	GLN	76	-16.158	10.768	12.466	1.00	0.00
ATOM	1191	HB3	GLN	76	-16.561	12.213	11.508	1.00	0.00

ATOM	1192	CG	GLN	76	-17.715	10.464	11.008	1.00	0.00
ATOM	1193	HG2	GLN	76	-17.769	10.491	9.920	1.00	0.00
ATOM	1194	HG3	GLN	76	-17.742	9.428	11.346	1.00	0.00
ATOM	1195	CD	GLN	76	-18.923	11.190	11.572	1.00	0.00
ATOM	1196	OE1	GLN	76	-19.498	12.057	10.935	1.00	0.00
ATOM	1197	NE2	GLN	76	-19.295	10.825	12.782	1.00	0.00
ATOM	1198	HE21	GLN	76	-20.092	11.268	13.217	1.00	0.00
ATOM	1199	HE22	GLN	76	-18.782	10.104	13.269	1.00	0.00
ATOM	1200	C	GLN	76	-14.999	11.998	9.603	1.00	0.00
ATOM	1201	O	GLN	76	-14.820	13.125	10.052	1.00	0.00
ATOM	1202	N	HID	77	-14.882	11.730	8.304	1.00	0.00
ATOM	1203	H	HID	77	-14.866	10.767	8.000	1.00	0.00
ATOM	1204	CA	HID	77	-14.648	12.769	7.314	1.00	0.00
ATOM	1205	HA	HID	77	-14.817	13.753	7.751	1.00	0.00
ATOM	1206	CB	HID	77	-13.199	12.692	6.828	1.00	0.00
ATOM	1207	HB2	HID	77	-12.514	12.857	7.659	1.00	0.00
ATOM	1208	HB3	HID	77	-12.996	11.719	6.379	1.00	0.00
ATOM	1209	CG	HID	77	-12.868	13.725	5.785	1.00	0.00
ATOM	1210	ND1	HID	77	-12.248	14.927	6.050	1.00	0.00
ATOM	1211	HD1	HID	77	-11.954	15.249	6.961	1.00	0.00
ATOM	1212	CE1	HID	77	-12.103	15.595	4.889	1.00	0.00
ATOM	1213	HE1	HID	77	-11.622	16.573	4.874	1.00	0.00

ATOM	1214	NE2	HID	77	-12.627	14.855	3.897	1.00	0.00
ATOM	1215	CD2	HID	77	-13.103	13.672	4.433	1.00	0.00
ATOM	1216	HD2	HID	77	-13.558	12.923	3.784	1.00	0.00
ATOM	1217	C	HID	77	-15.680	12.671	6.197	1.00	0.00
ATOM	1218	O	HID	77	-15.569	13.339	5.180	1.00	0.00
ATOM	1219	N	GLY	78	-16.689	11.819	6.382	1.00	0.00
ATOM	1220	H	GLY	78	-16.745	11.296	7.244	1.00	0.00
ATOM	1221	CA	GLY	78	-17.713	11.613	5.390	1.00	0.00
ATOM	1222	HA2	GLY	78	-18.378	10.816	5.725	1.00	0.00
ATOM	1223	HA3	GLY	78	-18.283	12.534	5.271	1.00	0.00
ATOM	1224	C	GLY	78	-17.110	11.222	4.039	1.00	0.00
ATOM	1225	O	GLY	78	-15.887	11.046	3.884	1.00	0.00
ATOM	1226	N	PRO	79	-17.987	11.020	3.055	1.00	0.00
ATOM	1227	CD	PRO	79	-19.434	11.148	3.156	1.00	0.00
ATOM	1228	HD2	PRO	79	-19.670	12.199	3.318	1.00	0.00
ATOM	1229	HD3	PRO	79	-19.766	10.565	4.015	1.00	0.00
ATOM	1230	CG	PRO	79	-19.998	10.615	1.835	1.00	0.00
ATOM	1231	HG2	PRO	79	-20.512	11.424	1.317	1.00	0.00
ATOM	1232	HG3	PRO	79	-20.706	9.814	2.049	1.00	0.00
ATOM	1233	CB	PRO	79	-18.811	10.092	1.017	1.00	0.00
ATOM	1234	HB2	PRO	79	-18.844	10.434	-0.018	1.00	0.00
ATOM	1235	HB3	PRO	79	-18.779	9.002	1.038	1.00	0.00

ATOM	1236	CA	PRO	79	-17.578	10.663	1.714	1.00	0.00
ATOM	1237	HA	PRO	79	-16.854	9.851	1.785	1.00	0.00
ATOM	1238	C	PRO	79	-16.955	11.831	0.974	1.00	0.00
ATOM	1239	O	PRO	79	-17.657	12.681	0.447	1.00	0.00
ATOM	1240	N	PHE	80	-15.617	11.870	0.949	1.00	0.00
ATOM	1241	H	PHE	80	-15.079	11.135	1.387	1.00	0.00
ATOM	1242	CA	PHE	80	-14.904	12.948	0.300	1.00	0.00
ATOM	1243	HA	PHE	80	-15.463	13.337	-0.551	1.00	0.00
ATOM	1244	CB	PHE	80	-14.736	14.068	1.327	1.00	0.00
ATOM	1245	HB2	PHE	80	-15.580	14.075	2.017	1.00	0.00
ATOM	1246	HB3	PHE	80	-13.812	13.919	1.885	1.00	0.00
ATOM	1247	CG	PHE	80	-14.659	15.445	0.726	1.00	0.00
ATOM	1248	CD1	PHE	80	-15.829	16.086	0.297	1.00	0.00
ATOM	1249	HD1	PHE	80	-16.790	15.582	0.398	1.00	0.00
ATOM	1250	CE1	PHE	80	-15.766	17.373	-0.262	1.00	0.00
ATOM	1251	HE1	PHE	80	-16.682	17.863	-0.593	1.00	0.00
ATOM	1252	CZ	PHE	80	-14.533	18.027	-0.396	1.00	0.00
ATOM	1253	HZ	PHE	80	-14.478	19.024	-0.832	1.00	0.00
ATOM	1254	CE2	PHE	80	-13.363	17.385	0.037	1.00	0.00
ATOM	1255	HE2	PHE	80	-12.402	17.889	-0.062	1.00	0.00
ATOM	1256	CD2	PHE	80	-13.427	16.099	0.596	1.00	0.00
ATOM	1257	HD2	PHE	80	-12.515	15.604	0.931	1.00	0.00

ATOM	1258	C	PHE	80	-13.541	12.482	-0.178	1.00	0.00
ATOM	1259	O	PHE	80	-13.245	12.448	-1.361	1.00	0.00
ATOM	1260	N	GLN	81	-12.693	12.085	0.779	1.00	0.00
ATOM	1261	H	GLN	81	-12.999	12.086	1.741	1.00	0.00
ATOM	1262	CA	GLN	81	-11.342	11.669	0.491	1.00	0.00
ATOM	1263	HA	GLN	81	-10.884	12.386	-0.190	1.00	0.00
ATOM	1264	CB	GLN	81	-10.496	11.588	1.755	1.00	0.00
ATOM	1265	HB2	GLN	81	-10.850	10.752	2.359	1.00	0.00
ATOM	1266	HB3	GLN	81	-9.458	11.415	1.470	1.00	0.00
ATOM	1267	CG	GLN	81	-10.593	12.875	2.563	1.00	0.00
ATOM	1268	HG2	GLN	81	-9.739	13.502	2.307	1.00	0.00
ATOM	1269	HG3	GLN	81	-11.516	13.406	2.331	1.00	0.00
ATOM	1270	CD	GLN	81	-10.558	12.593	4.052	1.00	0.00
ATOM	1271	OE1	GLN	81	-10.882	11.530	4.549	1.00	0.00
ATOM	1272	NE2	GLN	81	-10.176	13.600	4.806	1.00	0.00
ATOM	1273	HE21	GLN	81	-10.128	13.486	5.808	1.00	0.00
ATOM	1274	HE22	GLN	81	-9.932	14.482	4.379	1.00	0.00
ATOM	1275	C	GLN	81	-11.411	10.329	-0.164	1.00	0.00
ATOM	1276	O	GLN	81	-10.959	10.244	-1.274	1.00	0.00
ATOM	1277	N	SER	82	-12.025	9.327	0.477	1.00	0.00
ATOM	1278	H	SER	82	-12.424	9.514	1.385	1.00	0.00
ATOM	1279	CA	SER	82	-12.143	7.984	-0.063	1.00	0.00



ATOM	1280	HA	SER	82	-11.212	7.440	0.097	1.00	0.00
ATOM	1281	CB	SER	82	-13.275	7.226	0.623	1.00	0.00
ATOM	1282	HB2	SER	82	-13.012	7.113	1.674	1.00	0.00
ATOM	1283	HB3	SER	82	-14.179	7.828	0.538	1.00	0.00
ATOM	1284	OG	SER	82	-13.502	5.958	0.058	1.00	0.00
ATOM	1285	HG	SER	82	-14.221	5.524	0.523	1.00	0.00
ATOM	1286	C	SER	82	-12.428	8.030	-1.547	1.00	0.00
ATOM	1287	O	SER	82	-11.725	7.406	-2.298	1.00	0.00
ATOM	1288	N	THR	83	-13.365	8.876	-1.963	1.00	0.00
ATOM	1289	H	THR	83	-13.932	9.351	-1.275	1.00	0.00
ATOM	1290	CA	THR	83	-13.687	9.059	-3.361	1.00	0.00
ATOM	1291	HA	THR	83	-14.266	8.192	-3.680	1.00	0.00
ATOM	1292	CB	THR	83	-14.554	10.308	-3.514	1.00	0.00
ATOM	1293	HB	THR	83	-14.379	10.935	-2.640	1.00	0.00
ATOM	1294	CG2	THR	83	-14.257	11.106	-4.780	1.00	0.00
ATOM	1295	HG21	THR	83	-14.432	10.479	-5.655	1.00	0.00
ATOM	1296	HG22	THR	83	-14.910	11.978	-4.822	1.00	0.00
ATOM	1297	HG23	THR	83	-13.217	11.431	-4.769	1.00	0.00
ATOM	1298	OG1	THR	83	-15.869	9.852	-3.638	1.00	0.00
ATOM	1299	HG1	THR	83	-16.460	10.602	-3.738	1.00	0.00
ATOM	1300	C	THR	83	-12.432	9.096	-4.223	1.00	0.00
ATOM	1301	O	THR	83	-12.107	8.135	-4.922	1.00	0.00

ATOM	1302	N	ARG	84	-11.675	10.196	-4.129	1.00	0.00
ATOM	1303	H	ARG	84	-11.955	10.938	-3.505	1.00	0.00
ATOM	1304	CA	ARG	84	-10.478	10.370	-4.898	1.00	0.00
ATOM	1305	HA	ARG	84	-10.675	10.124	-5.942	1.00	0.00
ATOM	1306	CB	ARG	84	-9.986	11.816	-4.821	1.00	0.00
ATOM	1307	HB2	ARG	84	-10.655	12.381	-4.172	1.00	0.00
ATOM	1308	HB3	ARG	84	-8.980	11.824	-4.401	1.00	0.00
ATOM	1309	CG	ARG	84	-9.963	12.457	-6.214	1.00	0.00
ATOM	1310	HG2	ARG	84	-10.992	12.641	-6.522	1.00	0.00
ATOM	1311	HG3	ARG	84	-9.429	13.405	-6.145	1.00	0.00
ATOM	1312	CD	ARG	84	-9.275	11.558	-7.246	1.00	0.00
ATOM	1313	HD2	ARG	84	-8.806	10.715	-6.738	1.00	0.00
ATOM	1314	HD3	ARG	84	-10.015	11.187	-7.956	1.00	0.00
ATOM	1315	NE	ARG	84	-8.240	12.298	-7.987	1.00	0.00
ATOM	1316	HE	ARG	84	-7.908	13.146	-7.550	1.00	0.00
ATOM	1317	CZ	ARG	84	-7.738	11.955	-9.156	1.00	0.00
ATOM	1318	NH1	ARG	84	-8.199	10.902	-9.790	1.00	0.00
ATOM	1319	HH11	ARG	84	-8.941	10.353	-9.379	1.00	0.00
ATOM	1320	HH12	ARG	84	-7.810	10.645	-10.686	1.00	0.00
ATOM	1321	NH2	ARG	84	-6.761	12.654	-9.686	1.00	0.00
ATOM	1322	HH21	ARG	84	-6.394	13.456	-9.195	1.00	0.00
ATOM	1323	HH22	ARG	84	-6.381	12.385	-10.583	1.00	0.00

ATOM	1324	C	ARG	84	-9.407	9.455	-4.379	1.00	0.00
ATOM	1325	O	ARG	84	-8.688	8.860	-5.162	1.00	0.00
ATOM	1326	N	ILE	85	-9.242	9.386	-3.066	1.00	0.00
ATOM	1327	H	ILE	85	-9.777	10.033	-2.505	1.00	0.00
ATOM	1328	CA	ILE	85	-8.294	8.532	-2.404	1.00	0.00
ATOM	1329	HA	ILE	85	-7.262	8.844	-2.564	1.00	0.00
ATOM	1330	CB	ILE	85	-8.576	8.449	-0.898	1.00	0.00
ATOM	1331	HB	ILE	85	-9.654	8.491	-0.741	1.00	0.00
ATOM	1332	CG2	ILE	85	-8.028	7.155	-0.310	1.00	0.00
ATOM	1333	HG21	ILE	85	-6.950	7.112	-0.466	1.00	0.00
ATOM	1334	HG22	ILE	85	-8.241	7.121	0.758	1.00	0.00
ATOM	1335	HG23	ILE	85	-8.500	6.303	-0.801	1.00	0.00
ATOM	1336	CG1	ILE	85	-8.034	9.691	-0.169	1.00	0.00
ATOM	1337	HG12	ILE	85	-8.575	10.566	-0.528	1.00	0.00
ATOM	1338	HG13	ILE	85	-8.210	9.569	0.900	1.00	0.00
ATOM	1339	CD1	ILE	85	-6.539	9.878	-0.421	1.00	0.00
ATOM	1340	HD11	ILE	85	-6.363	10.000	-1.490	1.00	0.00
ATOM	1341	HD12	ILE	85	-6.189	10.764	0.108	1.00	0.00
ATOM	1342	HD13	ILE	85	-5.997	9.003	-0.062	1.00	0.00
ATOM	1343	C	ILE	85	-8.288	7.167	-3.063	1.00	0.00
ATOM	1344	O	ILE	85	-7.234	6.585	-3.214	1.00	0.00
ATOM	1345	N	TYR	86	-9.434	6.710	-3.542	1.00	0.00

ATOM	1346	H	TYR	86	-10.249	7.296	-3.432	1.00	0.00
ATOM	1347	CA	TYR	86	-9.582	5.466	-4.228	1.00	0.00
ATOM	1348	HA	TYR	86	-8.896	4.712	-3.842	1.00	0.00
ATOM	1349	CB	TYR	86	-11.008	4.993	-3.989	1.00	0.00
ATOM	1350	HB2	TYR	86	-11.628	5.888	-3.949	1.00	0.00
ATOM	1351	HB3	TYR	86	-11.300	4.386	-4.847	1.00	0.00
ATOM	1352	CG	TYR	86	-11.196	4.192	-2.717	1.00	0.00
ATOM	1353	CD1	TYR	86	-10.884	4.751	-1.466	1.00	0.00
ATOM	1354	HD1	TYR	86	-10.507	5.772	-1.420	1.00	0.00
ATOM	1355	CE1	TYR	86	-11.052	4.011	-0.286	1.00	0.00
ATOM	1356	HE1	TYR	86	-10.773	4.428	0.681	1.00	0.00
ATOM	1357	CZ	TYR	86	-11.537	2.698	-0.370	1.00	0.00
ATOM	1358	OH	TYR	86	-11.749	2.005	0.774	1.00	0.00
ATOM	1359	HH	TYR	86	-11.535	2.508	1.563	1.00	0.00
ATOM	1360	CE2	TYR	86	-11.852	2.119	-1.611	1.00	0.00
ATOM	1361	HE2	TYR	86	-12.230	1.098	-1.670	1.00	0.00
ATOM	1362	CD2	TYR	86	-11.674	2.872	-2.787	1.00	0.00
ATOM	1363	HD2	TYR	86	-11.907	2.431	-3.757	1.00	0.00
ATOM	1364	C	TYR	86	-9.375	5.633	-5.709	1.00	0.00
ATOM	1365	O	TYR	86	-8.708	4.831	-6.343	1.00	0.00
ATOM	1366	N	GLN	87	-9.880	6.716	-6.292	1.00	0.00
ATOM	1367	H	GLN	87	-10.440	7.344	-5.733	1.00	0.00

ATOM	1368	CA	GLN	87	-9.712	7.013	-7.690	1.00	0.00
ATOM	1369	HA	GLN	87	-10.042	6.164	-8.289	1.00	0.00
ATOM	1370	CB	GLN	87	-10.536	8.235	-8.081	1.00	0.00
ATOM	1371	HB2	GLN	87	-11.257	8.442	-7.291	1.00	0.00
ATOM	1372	HB3	GLN	87	-9.868	9.089	-8.196	1.00	0.00
ATOM	1373	CG	GLN	87	-11.278	7.988	-9.396	1.00	0.00
ATOM	1374	HG2	GLN	87	-10.660	8.049	-10.292	1.00	0.00
ATOM	1375	HG3	GLN	87	-11.653	6.971	-9.283	1.00	0.00
ATOM	1376	CD	GLN	87	-12.464	8.929	-9.557	1.00	0.00
ATOM	1377	OE1	GLN	87	-12.514	9.995	-8.954	1.00	0.00
ATOM	1378	NE2	GLN	87	-13.330	8.595	-10.479	1.00	0.00
ATOM	1379	HE21	GLN	87	-14.141	9.175	-10.640	1.00	0.00
ATOM	1380	HE22	GLN	87	-13.183	7.758	-11.026	1.00	0.00
ATOM	1381	C	GLN	87	-8.249	7.242	-8.019	1.00	0.00
ATOM	1382	O	GLN	87	-7.874	7.340	-9.181	1.00	0.00
ATOM	1383	N	ILE	88	-7.384	7.351	-7.025	1.00	0.00
ATOM	1384	H	ILE	88	-7.757	7.357	-6.086	1.00	0.00
ATOM	1385	CA	ILE	88	-5.971	7.533	-7.197	1.00	0.00
ATOM	1386	HA	ILE	88	-5.695	7.533	-8.252	1.00	0.00
ATOM	1387	CB	ILE	88	-5.545	8.856	-6.558	1.00	0.00
ATOM	1388	HB	ILE	88	-5.888	8.874	-5.524	1.00	0.00
ATOM	1389	CG2	ILE	88	-4.026	9.008	-6.593	1.00	0.00

ATOM	1390	HG21	ILE	88	-3.682	8.990	-7.627	1.00	0.00
ATOM	1391	HG22	ILE	88	-3.745	9.955	-6.134	1.00	0.00
ATOM	1392	HG23	ILE	88	-3.565	8.187	-6.043	1.00	0.00
ATOM	1393	CG1	ILE	88	-6.211	10.035	-7.272	1.00	0.00
ATOM	1394	HG12	ILE	88	-5.668	10.250	-8.192	1.00	0.00
ATOM	1395	HG13	ILE	88	-7.242	9.773	-7.512	1.00	0.00
ATOM	1396	CD1	ILE	88	-6.196	11.275	-6.367	1.00	0.00
ATOM	1397	HD11	ILE	88	-5.166	11.537	-6.127	1.00	0.00
ATOM	1398	HD12	ILE	88	-6.672	12.108	-6.884	1.00	0.00
ATOM	1399	HD13	ILE	88	-6.740	11.060	-5.447	1.00	0.00
ATOM	1400	C	ILE	88	-5.246	6.341	-6.607	1.00	0.00
ATOM	1401	O	ILE	88	-4.063	6.185	-6.820	1.00	0.00
ATOM	1402	N	ALA	89	-5.946	5.480	-5.889	1.00	0.00
ATOM	1403	H	ALA	89	-6.911	5.697	-5.682	1.00	0.00
ATOM	1404	CA	ALA	89	-5.379	4.282	-5.323	1.00	0.00
ATOM	1405	HA	ALA	89	-4.290	4.329	-5.350	1.00	0.00
ATOM	1406	CB	ALA	89	-5.824	4.161	-3.875	1.00	0.00
ATOM	1407	HB1	ALA	89	-6.912	4.103	-3.832	1.00	0.00
ATOM	1408	HB2	ALA	89	-5.396	3.259	-3.437	1.00	0.00
ATOM	1409	HB3	ALA	89	-5.485	5.033	-3.316	1.00	0.00
ATOM	1410	C	ALA	89	-5.779	3.074	-6.153	1.00	0.00
ATOM	1411	O	ALA	89	-5.443	1.940	-5.824	1.00	0.00

ATOM	1412	N	LYS	90	-6.494	3.314	-7.258	1.00	0.00
ATOM	1413	H	LYS	90	-6.799	4.259	-7.443	1.00	0.00
ATOM	1414	CA	LYS	90	-6.945	2.261	-8.144	1.00	0.00
ATOM	1415	HA	LYS	90	-6.898	1.300	-7.632	1.00	0.00
ATOM	1416	CB	LYS	90	-8.395	2.515	-8.578	1.00	0.00
ATOM	1417	HB2	LYS	90	-8.912	1.555	-8.594	1.00	0.00
ATOM	1418	HB3	LYS	90	-8.857	3.164	-7.834	1.00	0.00
ATOM	1419	CG	LYS	90	-8.493	3.165	-9.948	1.00	0.00
ATOM	1420	HG2	LYS	90	-7.910	2.574	-10.655	1.00	0.00
ATOM	1421	HG3	LYS	90	-9.539	3.169	-10.256	1.00	0.00
ATOM	1422	CD	LYS	90	-7.969	4.583	-9.923	1.00	0.00
ATOM	1423	HD2	LYS	90	-8.654	5.201	-9.342	1.00	0.00
ATOM	1424	HD3	LYS	90	-6.987	4.586	-9.450	1.00	0.00
ATOM	1425	CE	LYS	90	-7.854	5.144	-11.339	1.00	0.00
ATOM	1426	HE2	LYS	90	-7.429	4.375	-11.985	1.00	0.00
ATOM	1427	HE3	LYS	90	-8.852	5.403	-11.693	1.00	0.00
ATOM	1428	NZ	LYS	90	-6.996	6.341	-11.370	1.00	0.00
ATOM	1429	HZ1	LYS	90	-6.071	6.101	-11.043	1.00	0.00
ATOM	1430	HZ2	LYS	90	-6.938	6.689	-12.316	1.00	0.00
ATOM	1431	HZ3	LYS	90	-7.390	7.053	-10.773	1.00	0.00
ATOM	1432	C	LYS	90	-5.988	2.141	-9.301	1.00	0.00
ATOM	1433	O	LYS	90	-6.006	1.167	-10.035	1.00	0.00

ATOM	1434	N	ASN	91	-5.184	3.190	-9.519	1.00	0.00
ATOM	1435	H	ASN	91	-5.281	4.005	-8.931	1.00	0.00
ATOM	1436	CA	ASN	91	-4.202	3.219	-10.566	1.00	0.00
ATOM	1437	HA	ASN	91	-4.523	2.582	-11.391	1.00	0.00
ATOM	1438	CB	ASN	91	-4.019	4.644	-11.091	1.00	0.00
ATOM	1439	HB2	ASN	91	-3.141	4.632	-11.736	1.00	0.00
ATOM	1440	HB3	ASN	91	-4.888	4.962	-11.667	1.00	0.00
ATOM	1441	CG	ASN	91	-3.788	5.635	-9.982	1.00	0.00
ATOM	1442	OD1	ASN	91	-3.146	5.334	-9.005	1.00	0.00
ATOM	1443	ND2	ASN	91	-4.373	6.808	-10.134	1.00	0.00
ATOM	1444	HD21	ASN	91	-4.260	7.520	-9.427	1.00	0.00
ATOM	1445	HD22	ASN	91	-4.931	6.987	-10.957	1.00	0.00
ATOM	1446	C	ASN	91	-2.864	2.696	-10.053	1.00	0.00
ATOM	1447	O	ASN	91	-1.868	2.731	-10.767	1.00	0.00
ATOM	1448	N	LEU	92	-2.829	2.293	-8.787	1.00	0.00
ATOM	1449	H	LEU	92	-3.648	2.422	-8.210	1.00	0.00
ATOM	1450	CA	LEU	92	-1.647	1.743	-8.179	1.00	0.00
ATOM	1451	HA	LEU	92	-0.775	2.338	-8.449	1.00	0.00
ATOM	1452	CB	LEU	92	-1.795	1.754	-6.651	1.00	0.00
ATOM	1453	HB2	LEU	92	-2.872	1.771	-6.486	1.00	0.00
ATOM	1454	HB3	LEU	92	-1.377	0.841	-6.226	1.00	0.00
ATOM	1455	CG	LEU	92	-1.155	2.972	-5.975	1.00	0.00



ATOM	1456	HG	LEU	92	-1.337	3.856	-6.586	1.00	0.00
ATOM	1457	CD1	LEU	92	-1.756	3.182	-4.583	1.00	0.00
ATOM	1458	HD11	LEU	92	-1.574	2.298	-3.971	1.00	0.00
ATOM	1459	HD12	LEU	92	-1.293	4.050	-4.114	1.00	0.00
ATOM	1460	HD13	LEU	92	-2.830	3.347	-4.672	1.00	0.00
ATOM	1461	CD2	LEU	92	0.361	2.828	-5.906	1.00	0.00
ATOM	1462	HD21	LEU	92	0.764	2.737	-6.915	1.00	0.00
ATOM	1463	HD22	LEU	92	0.788	3.706	-5.422	1.00	0.00
ATOM	1464	HD23	LEU	92	0.616	1.937	-5.332	1.00	0.00
ATOM	1465	C	LEU	92	-1.391	0.344	-8.709	1.00	0.00
ATOM	1466	O	LEU	92	-0.309	0.085	-9.194	1.00	0.00
ATOM	1467	N	PRO	93	-2.407	-0.533	-8.698	1.00	0.00
ATOM	1468	CD	PRO	93	-3.751	-0.282	-8.205	1.00	0.00
ATOM	1469	HD2	PRO	93	-4.212	0.448	-8.870	1.00	0.00
ATOM	1470	HD3	PRO	93	-3.659	0.144	-7.206	1.00	0.00
ATOM	1471	CG	PRO	93	-4.482	-1.607	-8.202	1.00	0.00
ATOM	1472	HG2	PRO	93	-5.322	-1.556	-8.895	1.00	0.00
ATOM	1473	HG3	PRO	93	-4.853	-1.811	-7.198	1.00	0.00
ATOM	1474	CB	PRO	93	-3.464	-2.665	-8.634	1.00	0.00
ATOM	1475	HB2	PRO	93	-3.875	-3.340	-9.385	1.00	0.00
ATOM	1476	HB3	PRO	93	-3.126	-3.242	-7.774	1.00	0.00
ATOM	1477	CA	PRO	93	-2.295	-1.879	-9.227	1.00	0.00

ATOM	1478	HA	PRO	93	-1.378	-2.319	-8.834	1.00	0.00
ATOM	1479	C	PRO	93	-2.260	-1.909	-10.745	1.00	0.00
ATOM	1480	O	PRO	93	-2.137	-2.976	-11.342	1.00	0.00
ATOM	1481	N	ASN	94	-2.367	-0.726	-11.355	1.00	0.00
ATOM	1482	H	ASN	94	-2.470	0.113	-10.802	1.00	0.00
ATOM	1483	CA	ASN	94	-2.336	-0.600	-12.782	1.00	0.00
ATOM	1484	HA	ASN	94	-2.773	-1.485	-13.245	1.00	0.00
ATOM	1485	CB	ASN	94	-3.141	0.626	-13.216	1.00	0.00
ATOM	1486	HB2	ASN	94	-2.911	1.461	-12.555	1.00	0.00
ATOM	1487	HB3	ASN	94	-2.861	0.884	-14.237	1.00	0.00
ATOM	1488	CG	ASN	94	-4.630	0.371	-13.173	1.00	0.00
ATOM	1489	OD1	ASN	94	-5.106	-0.749	-13.106	1.00	0.00
ATOM	1490	ND2	ASN	94	-5.387	1.453	-13.205	1.00	0.00
ATOM	1491	HD21	ASN	94	-6.393	1.363	-13.180	1.00	0.00
ATOM	1492	HD22	ASN	94	-4.957	2.365	-13.255	1.00	0.00
ATOM	1493	C	ASN	94	-0.907	-0.437	-13.258	1.00	0.00
ATOM	1494	O	ASN	94	-0.520	-0.980	-14.285	1.00	0.00
ATOM	1495	N	VAL	95	-0.125	0.336	-12.502	1.00	0.00
ATOM	1496	H	VAL	95	-0.521	0.815	-11.706	1.00	0.00
ATOM	1497	CA	VAL	95	1.268	0.576	-12.825	1.00	0.00
ATOM	1498	HA	VAL	95	1.529	0.211	-13.819	1.00	0.00
ATOM	1499	CB	VAL	95	1.557	2.077	-12.763	1.00	0.00

ATOM	1500	HB	VAL	95	1.422	2.417	-11.736	1.00	0.00
ATOM	1501	CG1	VAL	95	2.984	2.379	-13.216	1.00	0.00
ATOM	1502	HG11	VAL	95	3.119	2.039	-14.243	1.00	0.00
ATOM	1503	HG12	VAL	95	3.163	3.452	-13.162	1.00	0.00
ATOM	1504	HG13	VAL	95	3.689	1.860	-12.567	1.00	0.00
ATOM	1505	CG2	VAL	95	0.555	2.855	-13.628	1.00	0.00
ATOM	1506	HG21	VAL	95	-0.457	2.674	-13.264	1.00	0.00
ATOM	1507	HG22	VAL	95	0.776	3.920	-13.572	1.00	0.00
ATOM	1508	HG23	VAL	95	0.633	2.522	-14.663	1.00	0.00
ATOM	1509	C	VAL	95	2.165	-0.215	-11.885	1.00	0.00
ATOM	1510	O	VAL	95	3.372	-0.281	-12.067	1.00	0.00
ATOM	1511	N	CYX	96	1.560	-0.874	-10.901	1.00	0.00
ATOM	1512	H	CYX	96	0.563	-0.762	-10.789	1.00	0.00
ATOM	1513	CA	CYX	96	2.269	-1.666	-9.936	1.00	0.00
ATOM	1514	HA	CYX	96	3.308	-1.762	-10.251	1.00	0.00
ATOM	1515	CB	CYX	96	2.237	-1.041	-8.541	1.00	0.00
ATOM	1516	HB2	CYX	96	1.234	-1.133	-8.124	1.00	0.00
ATOM	1517	HB3	CYX	96	2.947	-1.557	-7.895	1.00	0.00
ATOM	1518	SG	CYX	96	2.658	0.694	-8.506	1.00	0.00
ATOM	1519	C	CYX	96	1.689	-3.042	-9.956	1.00	0.00
ATOM	1520	O	CYX	96	1.563	-3.576	-8.880	1.00	0.00
ATOM	1521	N	ASN	97	1.312	-3.565	-11.134	1.00	0.00

ATOM	1522	H	ASN	97	1.441	-2.999	-11.960	1.00	0.00
ATOM	1523	CA	ASN	97	0.735	-4.883	-11.289	1.00	0.00
ATOM	1524	HA	ASN	97	-0.352	-4.808	-11.314	1.00	0.00
ATOM	1525	CB	ASN	97	1.209	-5.531	-12.590	1.00	0.00
ATOM	1526	HB2	ASN	97	2.191	-5.150	-12.870	1.00	0.00
ATOM	1527	HB3	ASN	97	1.271	-6.607	-12.425	1.00	0.00
ATOM	1528	CG	ASN	97	0.253	-5.273	-13.722	1.00	0.00
ATOM	1529	OD1	ASN	97	-0.478	-6.143	-14.165	1.00	0.00
ATOM	1530	ND2	ASN	97	0.243	-4.037	-14.171	1.00	0.00
ATOM	1531	HD21	ASN	97	-0.373	-3.784	-14.931	1.00	0.00
ATOM	1532	HD22	ASN	97	0.851	-3.347	-13.754	1.00	0.00
ATOM	1533	C	ASN	97	1.131	-5.802	-10.135	1.00	0.00
ATOM	1534	O	ASN	97	2.234	-6.349	-10.129	1.00	0.00
ATOM	1535	N	MET	98	0.262	-5.881	-9.130	1.00	0.00
ATOM	1536	H	MET	98	-0.613	-5.379	-9.182	1.00	0.00
ATOM	1537	CA	MET	98	0.562	-6.611	-7.919	1.00	0.00
ATOM	1538	HA	MET	98	1.410	-7.272	-8.101	1.00	0.00
ATOM	1539	CB	MET	98	0.911	-5.676	-6.763	1.00	0.00
ATOM	1540	HB2	MET	98	1.250	-6.276	-5.918	1.00	0.00
ATOM	1541	HB3	MET	98	1.713	-5.010	-7.081	1.00	0.00
ATOM	1542	CG	MET	98	-0.300	-4.849	-6.345	1.00	0.00
ATOM	1543	HG2	MET	98	-1.164	-5.198	-6.910	1.00	0.00

ATOM	1544	HG3 MET	98	-0.474	-5.010	-5.281	1.00	0.00
ATOM	1545	SD MET	98	-0.067	-3.104	-6.645	1.00	0.00
ATOM	1546	CE MET	98	-1.400	-2.409	-5.711	1.00	0.00
ATOM	1547	HE1 MET	98	-1.292	-2.686	-4.662	1.00	0.00
ATOM	1548	HE2 MET	98	-1.382	-1.323	-5.804	1.00	0.00
ATOM	1549	HE3 MET	98	-2.348	-2.790	-6.091	1.00	0.00
ATOM	1550	C MET	98	-0.613	-7.492	-7.576	1.00	0.00
ATOM	1551	O MET	98	-0.684	-8.060	-6.496	1.00	0.00
ATOM	1552	N LYS	99	-1.597	-7.572	-8.480	1.00	0.00
ATOM	1553	H LYS	99	-1.550	-6.963	-9.285	1.00	0.00
ATOM	1554	CA LYS	99	-2.786	-8.356	-8.288	1.00	0.00
ATOM	1555	HA LYS	99	-2.586	-9.182	-7.605	1.00	0.00
ATOM	1556	CB LYS	99	-3.894	-7.479	-7.686	1.00	0.00
ATOM	1557	HB2 LYS	99	-3.824	-7.530	-6.600	1.00	0.00
ATOM	1558	HB3 LYS	99	-3.737	-6.451	-8.012	1.00	0.00
ATOM	1559	CG LYS	99	-5.286	-7.950	-8.131	1.00	0.00
ATOM	1560	HG2 LYS	99	-5.221	-8.984	-8.471	1.00	0.00
ATOM	1561	HG3 LYS	99	-5.970	-7.889	-7.285	1.00	0.00
ATOM	1562	CD LYS	99	-5.809	-7.063	-9.280	1.00	0.00
ATOM	1563	HD2 LYS	99	-6.526	-6.351	-8.872	1.00	0.00
ATOM	1564	HD3 LYS	99	-4.968	-6.523	-9.714	1.00	0.00
ATOM	1565	CE LYS	99	-6.492	-7.912	-10.371	1.00	0.00

ATOM	1566	HE2	LYS	99	-6.329	-8.966	-10.144	1.00	0.00
ATOM	1567	HE3	LYS	99	-7.561	-7.699	-10.359	1.00	0.00
ATOM	1568	NZ	LYS	99	-5.944	-7.606	-11.710	1.00	0.00
ATOM	1569	HZ1	LYS	99	-4.954	-7.804	-11.722	1.00	0.00
ATOM	1570	HZ2	LYS	99	-6.409	-8.176	-12.402	1.00	0.00
ATOM	1571	HZ3	LYS	99	-6.095	-6.630	-11.921	1.00	0.00
ATOM	1572	C	LYS	99	-3.122	-9.047	-9.590	1.00	0.00
ATOM	1573	O	LYS	99	-3.811	-8.514	-10.436	1.00	0.00
ATOM	1574	N	GLN	100	-2.617	-10.239	-9.799	1.00	0.00
ATOM	1575	H	GLN	100	-1.974	-10.644	-9.134	1.00	0.00
ATOM	1576	CA	GLN	100	-2.913	-10.980	-11.003	1.00	0.00
ATOM	1577	HA	GLN	100	-2.845	-10.327	-11.873	1.00	0.00
ATOM	1578	CB	GLN	100	-1.905	-12.123	-11.168	1.00	0.00
ATOM	1579	HB2	GLN	100	-0.996	-11.880	-10.618	1.00	0.00
ATOM	1580	HB3	GLN	100	-2.337	-13.041	-10.768	1.00	0.00
ATOM	1581	CG	GLN	100	-1.567	-12.321	-12.650	1.00	0.00
ATOM	1582	HG2	GLN	100	-1.434	-11.329	-13.081	1.00	0.00
ATOM	1583	HG3	GLN	100	-0.645	-12.892	-12.761	1.00	0.00
ATOM	1584	CD	GLN	100	-2.677	-13.037	-13.410	1.00	0.00
ATOM	1585	OE1	GLN	100	-3.737	-13.346	-12.904	1.00	0.00
ATOM	1586	NE2	GLN	100	-2.413	-13.355	-14.655	1.00	0.00
ATOM	1587	HE21	GLN	100	-3.110	-13.831	-15.210	1.00	0.00

ATOM	1588	HE22	GLN	100	-1.514	-13.123	-15.053	1.00	0.00
ATOM	1589	C	GLN	100	-4.337	-11.511	-10.965	1.00	0.00
ATOM	1590	O	GLN	100	-5.098	-11.300	-11.902	1.00	0.00
ATOM	1591	N	ILE	101	-4.688	-12.154	-9.851	1.00	0.00
ATOM	1592	H	ILE	101	-3.990	-12.343	-9.146	1.00	0.00
ATOM	1593	CA	ILE	101	-6.005	-12.704	-9.671	1.00	0.00
ATOM	1594	HA	ILE	101	-6.314	-13.317	-10.518	1.00	0.00
ATOM	1595	CB	ILE	101	-6.083	-13.538	-8.379	1.00	0.00
ATOM	1596	HB	ILE	101	-5.657	-14.523	-8.569	1.00	0.00
ATOM	1597	CG2	ILE	101	-5.314	-12.861	-7.255	1.00	0.00
ATOM	1598	HG21	ILE	101	-5.740	-11.876	-7.065	1.00	0.00
ATOM	1599	HG22	ILE	101	-5.382	-13.467	-6.352	1.00	0.00
ATOM	1600	HG23	ILE	101	-4.268	-12.755	-7.543	1.00	0.00
ATOM	1601	CG1	ILE	101	-7.538	-13.813	-7.965	1.00	0.00
ATOM	1602	HG12	ILE	101	-7.557	-14.673	-7.295	1.00	0.00
ATOM	1603	HG13	ILE	101	-7.927	-12.939	-7.444	1.00	0.00
ATOM	1604	CD1	ILE	101	-8.407	-14.104	-9.195	1.00	0.00
ATOM	1605	HD11	ILE	101	-8.018	-14.979	-9.716	1.00	0.00
ATOM	1606	HD12	ILE	101	-9.432	-14.296	-8.879	1.00	0.00
ATOM	1607	HD13	ILE	101	-8.389	-13.245	-9.865	1.00	0.00
ATOM	1608	C	ILE	101	-7.036	-11.573	-9.734	1.00	0.00
ATOM	1609	O	ILE	101	-7.560	-11.239	-10.791	1.00	0.00

ATOM	1610	N	GLY	102	-7.335	-10.958	-8.585	1.00	0.00
ATOM	1611	H	GLY	102	-6.842	-11.224	-7.744	1.00	0.00
ATOM	1612	CA	GLY	102	-8.333	-9.929	-8.493	1.00	0.00
ATOM	1613	HA2	GLY	102	-7.866	-8.967	-8.704	1.00	0.00
ATOM	1614	HA3	GLY	102	-9.109	-10.126	-9.233	1.00	0.00
ATOM	1615	C	GLY	102	-8.961	-9.879	-7.127	1.00	0.00
ATOM	1616	O	GLY	102	-10.059	-10.345	-6.892	1.00	0.00
ATOM	1617	N	THR	103	-8.248	-9.287	-6.189	1.00	0.00
ATOM	1618	H	THR	103	-7.332	-8.940	-6.434	1.00	0.00
ATOM	1619	CA	THR	103	-8.681	-9.176	-4.801	1.00	0.00
ATOM	1620	HA	THR	103	-9.239	-10.088	-4.587	1.00	0.00
ATOM	1621	CB	THR	103	-7.441	-9.139	-3.904	1.00	0.00
ATOM	1622	HB	THR	103	-7.457	-8.210	-3.335	1.00	0.00
ATOM	1623	CG2	THR	103	-7.404	-10.324	-2.942	1.00	0.00
ATOM	1624	HG21	THR	103	-7.388	-11.254	-3.511	1.00	0.00
ATOM	1625	HG22	THR	103	-6.509	-10.262	-2.323	1.00	0.00
ATOM	1626	HG23	THR	103	-8.288	-10.304	-2.305	1.00	0.00
ATOM	1627	OG1	THR	103	-6.289	-9.316	-4.728	1.00	0.00
ATOM	1628	HG1	THR	103	-5.499	-9.296	-4.183	1.00	0.00
ATOM	1629	C	THR	103	-9.560	-7.952	-4.635	1.00	0.00
ATOM	1630	O	THR	103	-10.678	-8.049	-4.131	1.00	0.00
ATOM	1631	N	CYX	104	-9.072	-6.793	-5.098	1.00	0.00



ATOM	1632	H	CYX	104	-8.113	-6.756	-5.413	1.00	0.00
ATOM	1633	CA	CYX	104	-9.834	-5.560	-5.069	1.00	0.00
ATOM	1634	HA	CYX	104	-10.873	-5.772	-4.817	1.00	0.00
ATOM	1635	CB	CYX	104	-9.260	-4.605	-4.018	1.00	0.00
ATOM	1636	HB2	CYX	104	-9.983	-3.817	-3.809	1.00	0.00
ATOM	1637	HB3	CYX	104	-9.050	-5.157	-3.102	1.00	0.00
ATOM	1638	SG	CYX	104	-7.685	-3.758	-4.434	1.00	0.00
ATOM	1639	C	CYX	104	-9.870	-4.958	-6.466	1.00	0.00
ATOM	1640	O	CYX	104	-9.259	-3.931	-6.735	1.00	0.00
ATOM	1641	N	PRO	105	-10.536	-5.635	-7.403	1.00	0.00
ATOM	1642	CD	PRO	105	-11.269	-6.875	-7.206	1.00	0.00
ATOM	1643	HD2	PRO	105	-12.120	-6.660	-6.559	1.00	0.00
ATOM	1644	HD3	PRO	105	-10.604	-7.581	-6.708	1.00	0.00
ATOM	1645	CG	PRO	105	-11.693	-7.354	-8.592	1.00	0.00
ATOM	1646	HG2	PRO	105	-12.782	-7.370	-8.646	1.00	0.00
ATOM	1647	HG3	PRO	105	-11.308	-8.361	-8.755	1.00	0.00
ATOM	1648	CB	PRO	105	-11.097	-6.371	-9.602	1.00	0.00
ATOM	1649	HB2	PRO	105	-11.822	-6.061	-10.354	1.00	0.00
ATOM	1650	HB3	PRO	105	-10.231	-6.813	-10.094	1.00	0.00
ATOM	1651	CA	PRO	105	-10.665	-5.166	-8.769	1.00	0.00
ATOM	1652	HA	PRO	105	-9.673	-4.886	-9.124	1.00	0.00
ATOM	1653	C	PRO	105	-11.602	-3.973	-8.888	1.00	0.00

ATOM	1654	O	PRO	105	-12.550	-3.976	-9.663	1.00	0.00
ATOM	1655	N	PHE	106	-11.353	-2.948	-8.083	1.00	0.00
ATOM	1656	H	PHE	106	-10.553	-2.997	-7.469	1.00	0.00
ATOM	1657	CA	PHE	106	-12.159	-1.761	-8.057	1.00	0.00
ATOM	1658	HA	PHE	106	-13.195	-1.984	-8.313	1.00	0.00
ATOM	1659	CB	PHE	106	-12.117	-1.202	-6.639	1.00	0.00
ATOM	1660	HB2	PHE	106	-13.049	-0.699	-6.382	1.00	0.00
ATOM	1661	HB3	PHE	106	-11.949	-2.029	-5.949	1.00	0.00
ATOM	1662	CG	PHE	106	-11.002	-0.201	-6.397	1.00	0.00
ATOM	1663	CD1	PHE	106	-9.678	-0.634	-6.234	1.00	0.00
ATOM	1664	HD1	PHE	106	-9.456	-1.701	-6.279	1.00	0.00
ATOM	1665	CE1	PHE	106	-8.649	0.285	-6.016	1.00	0.00
ATOM	1666	HE1	PHE	106	-7.617	-0.053	-5.917	1.00	0.00
ATOM	1667	CZ	PHE	106	-8.950	1.643	-5.926	1.00	0.00
ATOM	1668	HZ	PHE	106	-8.163	2.358	-5.688	1.00	0.00
ATOM	1669	CE2	PHE	106	-10.259	2.089	-6.140	1.00	0.00
ATOM	1670	HE2	PHE	106	-10.478	3.156	-6.123	1.00	0.00
ATOM	1671	CD2	PHE	106	-11.283	1.171	-6.375	1.00	0.00
ATOM	1672	HD2	PHE	106	-12.302	1.521	-6.542	1.00	0.00
ATOM	1673	C	PHE	106	-11.623	-0.728	-9.001	1.00	0.00
ATOM	1674	O	PHE	106	-10.426	-0.761	-9.277	1.00	0.00
ATOM	1675	N	ILE	107	-12.484	0.197	-9.428	1.00	0.00

ATOM	1676	H	ILE	107	-13.444	0.146	-9.119	1.00	0.00
ATOM	1677	CA	ILE	107	-12.120	1.236	-10.374	1.00	0.00
ATOM	1678	HA	ILE	107	-11.512	2.014	-9.913	1.00	0.00
ATOM	1679	CB	ILE	107	-11.375	0.659	-11.598	1.00	0.00
ATOM	1680	HB	ILE	107	-11.689	1.200	-12.491	1.00	0.00
ATOM	1681	CG2	ILE	107	-9.855	0.801	-11.421	1.00	0.00
ATOM	1682	HG21	ILE	107	-9.541	0.259	-10.529	1.00	0.00
ATOM	1683	HG22	ILE	107	-9.347	0.389	-12.293	1.00	0.00
ATOM	1684	HG23	ILE	107	-9.598	1.855	-11.316	1.00	0.00
ATOM	1685	CG1	ILE	107	-11.775	-0.808	-11.873	1.00	0.00
ATOM	1686	HG12	ILE	107	-11.064	-1.462	-11.367	1.00	0.00
ATOM	1687	HG13	ILE	107	-12.773	-0.976	-11.469	1.00	0.00
ATOM	1688	CD1	ILE	107	-11.773	-1.112	-13.351	1.00	0.00
ATOM	1689	HD11	ILE	107	-10.775	-0.945	-13.756	1.00	0.00
ATOM	1690	HD12	ILE	107	-12.059	-2.152	-13.509	1.00	0.00
ATOM	1691	HD13	ILE	107	-12.484	-0.460	-13.858	1.00	0.00
ATOM	1692	C	ILE	107	-13.352	1.997	-10.812	1.00	0.00
ATOM	1693	O	ILE	107	-13.269	3.210	-10.947	1.00	0.00
ATOM	1694	N	ALA	108	-14.467	1.288	-11.024	1.00	0.00
ATOM	1695	H	ALA	108	-14.421	0.280	-10.973	1.00	0.00
ATOM	1696	CA	ALA	108	-15.722	1.898	-11.399	1.00	0.00
ATOM	1697	HA	ALA	108	-15.561	2.617	-12.202	1.00	0.00

ATOM	1698	CB	ALA	108	-16.677	0.815	-11.898	1.00	0.00
ATOM	1699	HB1	ALA	108	-16.856	0.092	-11.102	1.00	0.00
ATOM	1700	HB2	ALA	108	-17.622	1.271	-12.193	1.00	0.00
ATOM	1701	HB3	ALA	108	-16.236	0.308	-12.756	1.00	0.00
ATOM	1702	C	ALA	108	-16.305	2.680	-10.223	1.00	0.00
ATOM	1703	O	ALA	108	-17.344	2.321	-9.682	1.00	0.00
ATOM	1704	N	ILE	109	-15.616	3.734	-9.815	1.00	0.00
ATOM	1705	H	ILE	109	-14.730	3.902	-10.269	1.00	0.00
ATOM	1706	CA	ILE	109	-15.978	4.565	-8.690	1.00	0.00
ATOM	1707	HA	ILE	109	-17.025	4.444	-8.410	1.00	0.00
ATOM	1708	CB	ILE	109	-15.085	4.281	-7.470	1.00	0.00
ATOM	1709	HB	ILE	109	-14.951	5.204	-6.907	1.00	0.00
ATOM	1710	CG2	ILE	109	-15.729	3.219	-6.565	1.00	0.00
ATOM	1711	HG21	ILE	109	-15.863	2.295	-7.127	1.00	0.00
ATOM	1712	HG22	ILE	109	-15.083	3.031	-5.708	1.00	0.00
ATOM	1713	HG23	ILE	109	-16.698	3.576	-6.218	1.00	0.00
ATOM	1714	CG1	ILE	109	-13.660	3.871	-7.869	1.00	0.00
ATOM	1715	HG12	ILE	109	-13.127	3.537	-6.979	1.00	0.00
ATOM	1716	HG13	ILE	109	-13.717	3.052	-8.586	1.00	0.00
ATOM	1717	CD1	ILE	109	-12.916	5.043	-8.496	1.00	0.00
ATOM	1718	HD11	ILE	109	-12.858	5.862	-7.780	1.00	0.00
ATOM	1719	HD12	ILE	109	-11.909	4.729	-8.771	1.00	0.00

ATOM	1720	HD13	ILE	109	-13.448	5.377	-9.387	1.00	0.00
ATOM	1721	C	ILE	109	-15.982	6.040	-9.121	1.00	0.00
ATOM	1722	O	ILE	109	-17.009	6.700	-8.935	1.00	0.00
ATOM	1723	OXT	ILE	109	-14.969	6.535	-9.649	1.00	0.00
TER									
ATOM	1724	S1	LIG	110	20.108	-12.667	-5.224	1.00	0.00
ATOM	1725	S2	LIG	110	17.422	-17.393	0.322	1.00	0.00
ATOM	1726	O1	LIG	110	14.533	-13.304	-1.192	1.00	0.00
ATOM	1727	H5	LIG	110	13.994	-13.791	-0.534	1.00	0.00
ATOM	1728	O2	LIG	110	20.750	-11.247	-4.842	1.00	0.00
ATOM	1729	H6	LIG	110	19.986	-10.606	-4.959	1.00	0.00
ATOM	1730	O3	LIG	110	16.250	-18.435	-0.028	1.00	0.00
ATOM	1731	H7	LIG	110	15.415	-17.967	0.264	1.00	0.00
ATOM	1732	O4	LIG	110	21.120	-13.669	-4.958	1.00	0.00
ATOM	1733	O5	LIG	110	19.458	-12.586	-6.524	1.00	0.00
ATOM	1734	O6	LIG	110	18.656	-17.964	-0.179	1.00	0.00
ATOM	1735	O7	LIG	110	17.298	-16.961	1.706	1.00	0.00
ATOM	1736	O8	LIG	110	15.821	-5.430	-8.466	1.00	0.00
ATOM	1737	O9	LIG	110	17.887	-4.777	-8.339	1.00	0.00
ATOM	1738	N1	LIG	110	15.547	-11.505	-2.860	1.00	0.00
ATOM	1739	H3	LIG	110	14.752	-11.755	-2.294	1.00	0.00
ATOM	1740	H4	LIG	110	15.539	-10.682	-3.442	1.00	0.00

ATOM	1741	N2	LIG	110	17.403	-10.803	-4.543	1.00	0.00
ATOM	1742	N3	LIG	110	14.657	-15.445	0.177	1.00	0.00
ATOM	1743	N4	LIG	110	18.332	-10.165	-5.117	1.00	0.00
ATOM	1744	N5	LIG	110	14.433	-16.583	0.673	1.00	0.00
ATOM	1745	N6	LIG	110	16.984	-5.568	-8.105	1.00	0.00
ATOM	1746	C1	LIG	110	16.684	-13.559	-2.212	1.00	0.00
ATOM	1747	C2	LIG	110	17.849	-14.367	-2.339	1.00	0.00
ATOM	1748	C3	LIG	110	16.594	-12.339	-2.982	1.00	0.00
ATOM	1749	C4	LIG	110	18.792	-12.851	-3.979	1.00	0.00
ATOM	1750	C5	LIG	110	18.881	-13.994	-3.236	1.00	0.00
ATOM	1751	H1	LIG	110	19.743	-14.639	-3.352	1.00	0.00
ATOM	1752	C6	LIG	110	15.671	-14.016	-1.330	1.00	0.00
ATOM	1753	C7	LIG	110	16.997	-15.969	-0.721	1.00	0.00
ATOM	1754	C8	LIG	110	17.985	-15.550	-1.572	1.00	0.00
ATOM	1755	H2	LIG	110	18.894	-16.131	-1.651	1.00	0.00
ATOM	1756	C9	LIG	110	17.661	-11.978	-3.871	1.00	0.00
ATOM	1757	C10	LIG	110	15.790	-15.218	-0.593	1.00	0.00
ATOM	1758	C11	LIG	110	17.933	-9.036	-5.858	1.00	0.00
ATOM	1759	C12	LIG	110	13.291	-16.706	1.488	1.00	0.00
ATOM	1760	C13	LIG	110	16.618	-8.830	-6.308	1.00	0.00
ATOM	1761	H8	LIG	110	15.861	-9.574	-6.101	1.00	0.00
ATOM	1762	C14	LIG	110	18.937	-8.112	-6.179	1.00	0.00

ATOM	1763	H9	LIG	110	19.953	-8.291	-5.850	1.00	0.00
ATOM	1764	C15	LIG	110	16.308	-7.697	-7.041	1.00	0.00
ATOM	1765	H10	LIG	110	15.307	-7.517	-7.408	1.00	0.00
ATOM	1766	C16	LIG	110	18.631	-6.971	-6.907	1.00	0.00
ATOM	1767	H11	LIG	110	19.386	-6.240	-7.157	1.00	0.00
ATOM	1768	C17	LIG	110	17.317	-6.778	-7.324	1.00	0.00
ATOM	1769	C18	LIG	110	12.587	-15.616	2.026	1.00	0.00
ATOM	1770	H12	LIG	110	12.936	-14.608	1.843	1.00	0.00
ATOM	1771	C19	LIG	110	12.884	-18.016	1.779	1.00	0.00
ATOM	1772	H13	LIG	110	13.449	-18.850	1.380	1.00	0.00
ATOM	1773	C20	LIG	110	11.473	-15.845	2.818	1.00	0.00
ATOM	1774	H14	LIG	110	10.933	-15.007	3.243	1.00	0.00
ATOM	1775	C21	LIG	110	11.759	-18.235	2.565	1.00	0.00
ATOM	1776	H15	LIG	110	11.441	-19.248	2.779	1.00	0.00
ATOM	1777	C22	LIG	110	11.050	-17.152	3.084	1.00	0.00
ATOM	1778	H16	LIG	110	10.180	-17.322	3.707	1.00	0.00
TER									
ATOM	1779	S1	LIG	111	10.851	-7.304	22.174	1.00	0.00
ATOM	1780	S2	LIG	111	10.239	-7.724	14.443	1.00	0.00
ATOM	1781	O1	LIG	111	13.704	-10.763	16.916	1.00	0.00
ATOM	1782	H5	LIG	111	13.751	-11.011	15.968	1.00	0.00
ATOM	1783	O2	LIG	111	12.056	-6.490	22.851	1.00	0.00

ATOM	1784	H6	LIG	111	12.738	-7.201	23.046	1.00	0.00
ATOM	1785	O3	LIG	111	9.505	-8.989	13.777	1.00	0.00
ATOM	1786	H7	LIG	111	10.256	-9.605	13.537	1.00	0.00
ATOM	1787	O4	LIG	111	9.872	-6.326	21.746	1.00	0.00
ATOM	1788	O5	LIG	111	10.469	-8.425	23.021	1.00	0.00
ATOM	1789	O6	LIG	111	9.198	-6.835	14.916	1.00	0.00
ATOM	1790	O7	LIG	111	11.294	-7.247	13.562	1.00	0.00
ATOM	1791	O8	LIG	111	16.498	-12.163	27.250	1.00	0.00
ATOM	1792	O9	LIG	111	16.564	-10.195	28.165	1.00	0.00
ATOM	1793	N1	LIG	111	14.150	-10.430	19.511	1.00	0.00
ATOM	1794	H3	LIG	111	14.420	-10.935	18.682	1.00	0.00
ATOM	1795	H4	LIG	111	14.565	-10.634	20.407	1.00	0.00
ATOM	1796	N2	LIG	111	13.449	-9.393	21.792	1.00	0.00
ATOM	1797	N3	LIG	111	12.528	-10.201	14.730	1.00	0.00
ATOM	1798	N4	LIG	111	13.467	-8.748	22.881	1.00	0.00
ATOM	1799	N5	LIG	111	11.870	-10.261	13.656	1.00	0.00
ATOM	1800	N6	LIG	111	16.250	-10.963	27.266	1.00	0.00
ATOM	1801	C1	LIG	111	12.439	-9.236	18.257	1.00	0.00
ATOM	1802	C2	LIG	111	11.395	-8.268	18.288	1.00	0.00
ATOM	1803	C3	LIG	111	13.118	-9.570	19.488	1.00	0.00
ATOM	1804	C4	LIG	111	11.637	-8.003	20.687	1.00	0.00
ATOM	1805	C5	LIG	111	11.009	-7.677	19.517	1.00	0.00



ATOM	1806	H1	LIG	111	10.187	-6.973	19.533	1.00	0.00
ATOM	1807	C6	LIG	111	12.742	-9.821	17.000	1.00	0.00
ATOM	1808	C7	LIG	111	11.047	-8.464	15.891	1.00	0.00
ATOM	1809	C8	LIG	111	10.733	-7.892	17.094	1.00	0.00
ATOM	1810	H2	LIG	111	9.970	-7.126	17.131	1.00	0.00
ATOM	1811	C9	LIG	111	12.717	-8.944	20.715	1.00	0.00
ATOM	1812	C10	LIG	111	12.054	-9.473	15.814	1.00	0.00
ATOM	1813	C11	LIG	111	14.165	-9.357	23.941	1.00	0.00
ATOM	1814	C12	LIG	111	12.455	-10.973	12.592	1.00	0.00
ATOM	1815	C13	LIG	111	14.467	-10.729	23.984	1.00	0.00
ATOM	1816	H8	LIG	111	14.140	-11.372	23.178	1.00	0.00
ATOM	1817	C14	LIG	111	14.523	-8.526	25.013	1.00	0.00
ATOM	1818	H9	LIG	111	14.263	-7.476	24.983	1.00	0.00
ATOM	1819	C15	LIG	111	15.150	-11.253	25.069	1.00	0.00
ATOM	1820	H10	LIG	111	15.388	-12.305	25.132	1.00	0.00
ATOM	1821	C16	LIG	111	15.213	-9.045	26.099	1.00	0.00
ATOM	1822	H11	LIG	111	15.508	-8.421	26.931	1.00	0.00
ATOM	1823	C17	LIG	111	15.521	-10.402	26.109	1.00	0.00
ATOM	1824	C18	LIG	111	13.811	-11.337	12.540	1.00	0.00
ATOM	1825	H12	LIG	111	14.477	-11.043	13.340	1.00	0.00
ATOM	1826	C19	LIG	111	11.602	-11.293	11.526	1.00	0.00
ATOM	1827	H13	LIG	111	10.564	-10.984	11.564	1.00	0.00

ATOM	1828	C20	LIG	111	14.289	-12.040	11.445	1.00	0.00
ATOM	1829	H14	LIG	111	15.337	-12.314	11.397	1.00	0.00
ATOM	1830	C21	LIG	111	12.088	-12.007	10.437	1.00	0.00
ATOM	1831	H15	LIG	111	11.425	-12.261	9.620	1.00	0.00
ATOM	1832	C22	LIG	111	13.430	-12.384	10.395	1.00	0.00
ATOM	1833	H16	LIG	111	13.814	-12.929	9.541	1.00	0.00
TER									
ATOM	1834	S1	LIG	112	-22.156	16.776	-21.134	1.00	0.00
ATOM	1835	S2	LIG	112	-24.732	17.758	-13.874	1.00	0.00
ATOM	1836	O1	LIG	112	-25.685	21.444	-17.461	1.00	0.00
ATOM	1837	H5	LIG	112	-26.137	21.737	-16.641	1.00	0.00
ATOM	1838	O2	LIG	112	-20.839	17.539	-21.640	1.00	0.00
ATOM	1839	H6	LIG	112	-21.204	18.352	-22.104	1.00	0.00
ATOM	1840	O3	LIG	112	-26.296	17.567	-13.558	1.00	0.00
ATOM	1841	H7	LIG	112	-26.664	18.497	-13.588	1.00	0.00
ATOM	1842	O4	LIG	112	-21.709	15.649	-20.341	1.00	0.00
ATOM	1843	O5	LIG	112	-23.082	16.591	-22.243	1.00	0.00
ATOM	1844	O6	LIG	112	-24.155	16.432	-13.957	1.00	0.00
ATOM	1845	O7	LIG	112	-24.173	18.770	-12.991	1.00	0.00
ATOM	1846	O8	LIG	112	-23.353	22.562	-27.942	1.00	0.00
ATOM	1847	O9	LIG	112	-21.312	21.874	-28.218	1.00	0.00
ATOM	1848	N1	LIG	112	-24.565	21.284	-19.861	1.00	0.00

ATOM	1849	H3	LIG	112	-25.146	21.839	-19.253	1.00	0.00
ATOM	1850	H4	LIG	112	-24.379	21.567	-20.811	1.00	0.00
ATOM	1851	N2	LIG	112	-23.274	19.898	-21.645	1.00	0.00
ATOM	1852	N3	LIG	112	-26.133	20.582	-15.109	1.00	0.00
ATOM	1853	N4	LIG	112	-22.403	19.522	-22.483	1.00	0.00
ATOM	1854	N5	LIG	112	-26.685	20.181	-14.048	1.00	0.00
ATOM	1855	N6	LIG	112	-22.345	21.972	-27.570	1.00	0.00
ATOM	1856	C1	LIG	112	-24.381	19.560	-18.152	1.00	0.00
ATOM	1857	C2	LIG	112	-23.847	18.290	-17.792	1.00	0.00
ATOM	1858	C3	LIG	112	-24.139	20.067	-19.483	1.00	0.00
ATOM	1859	C4	LIG	112	-22.908	17.993	-20.008	1.00	0.00
ATOM	1860	C5	LIG	112	-23.125	17.526	-18.742	1.00	0.00
ATOM	1861	H1	LIG	112	-22.759	16.544	-18.468	1.00	0.00
ATOM	1862	C6	LIG	112	-25.132	20.249	-17.166	1.00	0.00
ATOM	1863	C7	LIG	112	-24.759	18.465	-15.546	1.00	0.00
ATOM	1864	C8	LIG	112	-24.036	17.780	-16.485	1.00	0.00
ATOM	1865	H2	LIG	112	-23.589	16.831	-16.217	1.00	0.00
ATOM	1866	C9	LIG	112	-23.390	19.279	-20.420	1.00	0.00
ATOM	1867	C10	LIG	112	-25.353	19.722	-15.871	1.00	0.00
ATOM	1868	C11	LIG	112	-22.447	20.160	-23.738	1.00	0.00
ATOM	1869	C12	LIG	112	-27.408	21.137	-13.308	1.00	0.00
ATOM	1870	C13	LIG	112	-23.578	20.840	-24.223	1.00	0.00

ATOM	1871	H8	LIG	112	-24.478	20.873	-23.624	1.00	0.00
ATOM	1872	C14	LIG	112	-21.299	20.052	-24.535	1.00	0.00
ATOM	1873	H9	LIG	112	-20.442	19.504	-24.164	1.00	0.00
ATOM	1874	C15	LIG	112	-23.544	21.433	-25.474	1.00	0.00
ATOM	1875	H10	LIG	112	-24.401	21.955	-25.875	1.00	0.00
ATOM	1876	C16	LIG	112	-21.257	20.650	-25.786	1.00	0.00
ATOM	1877	H11	LIG	112	-20.378	20.589	-26.413	1.00	0.00
ATOM	1878	C17	LIG	112	-22.380	21.338	-26.236	1.00	0.00
ATOM	1879	C18	LIG	112	-27.295	22.525	-13.494	1.00	0.00
ATOM	1880	H12	LIG	112	-26.599	22.914	-14.225	1.00	0.00
ATOM	1881	C19	LIG	112	-28.259	20.629	-12.316	1.00	0.00
ATOM	1882	H13	LIG	112	-28.318	19.558	-12.164	1.00	0.00
ATOM	1883	C20	LIG	112	-28.053	23.383	-12.713	1.00	0.00
ATOM	1884	H14	LIG	112	-27.962	24.455	-12.847	1.00	0.00
ATOM	1885	C21	LIG	112	-29.022	21.498	-11.545	1.00	0.00
ATOM	1886	H15	LIG	112	-29.686	21.102	-10.786	1.00	0.00
ATOM	1887	C22	LIG	112	-28.923	22.874	-11.743	1.00	0.00
ATOM	1888	H16	LIG	112	-29.509	23.553	-11.134	1.00	0.00
TER									
ATOM	1889	S1	LIG	113	-4.325	-24.043	-3.550	1.00	0.00
ATOM	1890	S2	LIG	113	-2.239	-21.438	-10.562	1.00	0.00
ATOM	1891	O1	LIG	113	0.648	-20.176	-6.387	1.00	0.00

ATOM	1892	H5	LIG	113	1.111	-19.797	-7.164	1.00	0.00
ATOM	1893	O2	LIG	113	-5.078	-23.075	-2.513	1.00	0.00
ATOM	1894	H6	LIG	113	-4.334	-22.732	-1.932	1.00	0.00
ATOM	1895	O3	LIG	113	-0.984	-22.106	-11.311	1.00	0.00
ATOM	1896	H7	LIG	113	-0.220	-21.498	-11.093	1.00	0.00
ATOM	1897	O4	LIG	113	-5.318	-24.484	-4.508	1.00	0.00
ATOM	1898	O5	LIG	113	-3.503	-25.003	-2.827	1.00	0.00
ATOM	1899	O6	LIG	113	-3.363	-22.333	-10.745	1.00	0.00
ATOM	1900	O7	LIG	113	-2.331	-20.031	-10.917	1.00	0.00
ATOM	1901	O8	LIG	113	0.048	-22.400	4.160	1.00	0.00
ATOM	1902	O9	LIG	113	-2.042	-22.252	4.725	1.00	0.00
ATOM	1903	N1	LIG	113	-0.199	-20.793	-3.949	1.00	0.00
ATOM	1904	H3	LIG	113	0.518	-20.331	-4.485	1.00	0.00
ATOM	1905	H4	LIG	113	-0.146	-20.855	-2.944	1.00	0.00
ATOM	1906	N2	LIG	113	-1.829	-22.113	-2.409	1.00	0.00
ATOM	1907	N3	LIG	113	0.429	-20.153	-8.922	1.00	0.00
ATOM	1908	N4	LIG	113	-2.696	-22.398	-1.533	1.00	0.00
ATOM	1909	N5	LIG	113	0.632	-20.292	-10.159	1.00	0.00
ATOM	1910	N6	LIG	113	-1.146	-22.335	3.896	1.00	0.00
ATOM	1911	C1	LIG	113	-1.323	-21.477	-5.998	1.00	0.00
ATOM	1912	C2	LIG	113	-2.422	-22.170	-6.581	1.00	0.00
ATOM	1913	C3	LIG	113	-1.180	-21.479	-4.560	1.00	0.00

ATOM	1914	C4	LIG	113	-3.191	-22.900	-4.400	1.00	0.00
ATOM	1915	C5	LIG	113	-3.332	-22.881	-5.759	1.00	0.00
ATOM	1916	H1	LIG	113	-4.139	-23.437	-6.218	1.00	0.00
ATOM	1917	C6	LIG	113	-0.425	-20.825	-6.883	1.00	0.00
ATOM	1918	C7	LIG	113	-1.735	-21.517	-8.820	1.00	0.00
ATOM	1919	C8	LIG	113	-2.611	-22.158	-7.984	1.00	0.00
ATOM	1920	H2	LIG	113	-3.474	-22.657	-8.406	1.00	0.00
ATOM	1921	C9	LIG	113	-2.126	-22.193	-3.752	1.00	0.00
ATOM	1922	C10	LIG	113	-0.593	-20.846	-8.288	1.00	0.00
ATOM	1923	C11	LIG	113	-2.247	-22.379	-0.198	1.00	0.00
ATOM	1924	C12	LIG	113	1.651	-19.506	-10.729	1.00	0.00
ATOM	1925	C13	LIG	113	-0.892	-22.463	0.165	1.00	0.00
ATOM	1926	H8	LIG	113	-0.139	-22.566	-0.605	1.00	0.00
ATOM	1927	C14	LIG	113	-3.236	-22.314	0.793	1.00	0.00
ATOM	1928	H9	LIG	113	-4.279	-22.275	0.505	1.00	0.00
ATOM	1929	C15	LIG	113	-0.532	-22.447	1.502	1.00	0.00
ATOM	1930	H10	LIG	113	0.501	-22.519	1.811	1.00	0.00
ATOM	1931	C16	LIG	113	-2.881	-22.291	2.135	1.00	0.00
ATOM	1932	H11	LIG	113	-3.626	-22.230	2.915	1.00	0.00
ATOM	1933	C17	LIG	113	-1.532	-22.353	2.470	1.00	0.00
ATOM	1934	C18	LIG	113	2.223	-18.386	-10.103	1.00	0.00
ATOM	1935	H12	LIG	113	1.859	-18.067	-9.135	1.00	0.00

ATOM	1936	C19	LIG	113	2.072	-19.883	-12.012	1.00	0.00
ATOM	1937	H13	LIG	113	1.606	-20.733	-12.496	1.00	0.00
ATOM	1938	C20	LIG	113	3.224	-17.678	-10.750	1.00	0.00
ATOM	1939	H14	LIG	113	3.660	-16.807	-10.275	1.00	0.00
ATOM	1940	C21	LIG	113	3.084	-19.173	-12.648	1.00	0.00
ATOM	1941	H15	LIG	113	3.413	-19.473	-13.635	1.00	0.00
ATOM	1942	C22	LIG	113	3.663	-18.072	-12.019	1.00	0.00
ATOM	1943	H16	LIG	113	4.443	-17.510	-12.519	1.00	0.00

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ATOM	1944	S1	LIG	114	21.974	2.179	-23.522	1.00	0.00
ATOM	1945	S2	LIG	114	14.565	1.764	-21.233	1.00	0.00
ATOM	1946	O1	LIG	114	17.738	5.300	-19.044	1.00	0.00
ATOM	1947	H5	LIG	114	16.849	5.453	-18.657	1.00	0.00
ATOM	1948	O2	LIG	114	23.139	1.533	-22.627	1.00	0.00
ATOM	1949	H6	LIG	114	23.480	2.312	-22.091	1.00	0.00
ATOM	1950	O3	LIG	114	13.526	2.894	-21.711	1.00	0.00
ATOM	1951	H7	LIG	114	13.504	3.540	-20.947	1.00	0.00
ATOM	1952	O4	LIG	114	21.342	1.088	-24.236	1.00	0.00
ATOM	1953	O5	LIG	114	22.479	3.346	-24.230	1.00	0.00
ATOM	1954	O6	LIG	114	14.731	0.849	-22.343	1.00	0.00
ATOM	1955	O7	LIG	114	14.195	1.285	-19.910	1.00	0.00
ATOM	1956	O8	LIG	114	28.122	7.952	-20.339	1.00	0.00

ATOM	1957	O9	LIG	114	29.233	6.098	-20.548	1.00	0.00
ATOM	1958	N1	LIG	114	20.336	5.267	-19.582	1.00	0.00
ATOM	1959	H3	LIG	114	19.607	5.705	-19.042	1.00	0.00
ATOM	1960	H4	LIG	114	21.290	5.592	-19.537	1.00	0.00
ATOM	1961	N2	LIG	114	22.313	4.415	-21.043	1.00	0.00
ATOM	1962	N3	LIG	114	15.360	4.429	-19.303	1.00	0.00
ATOM	1963	N4	LIG	114	23.403	3.887	-21.408	1.00	0.00
ATOM	1964	N5	LIG	114	14.122	4.328	-19.516	1.00	0.00
ATOM	1965	N6	LIG	114	28.194	6.744	-20.533	1.00	0.00
ATOM	1966	C1	LIG	114	18.701	3.822	-20.662	1.00	0.00
ATOM	1967	C2	LIG	114	18.468	2.784	-21.608	1.00	0.00
ATOM	1968	C3	LIG	114	20.044	4.331	-20.501	1.00	0.00
ATOM	1969	C4	LIG	114	20.802	2.782	-22.265	1.00	0.00
ATOM	1970	C5	LIG	114	19.534	2.292	-22.402	1.00	0.00
ATOM	1971	H1	LIG	114	19.335	1.530	-23.145	1.00	0.00
ATOM	1972	C6	LIG	114	17.580	4.299	-19.934	1.00	0.00
ATOM	1973	C7	LIG	114	16.104	2.708	-21.047	1.00	0.00
ATOM	1974	C8	LIG	114	17.171	2.238	-21.765	1.00	0.00
ATOM	1975	H2	LIG	114	17.021	1.422	-22.460	1.00	0.00
ATOM	1976	C9	LIG	114	21.107	3.803	-21.306	1.00	0.00
ATOM	1977	C10	LIG	114	16.277	3.779	-20.119	1.00	0.00
ATOM	1978	C11	LIG	114	24.562	4.653	-21.176	1.00	0.00



ATOM	1979	C12	LIG	114	13.265	4.972	-18.603	1.00	0.00
ATOM	1980	C13	LIG	114	24.543	6.041	-20.959	1.00	0.00
ATOM	1981	H8	LIG	114	23.601	6.572	-20.986	1.00	0.00
ATOM	1982	C14	LIG	114	25.783	3.965	-21.213	1.00	0.00
ATOM	1983	H9	LIG	114	25.790	2.900	-21.405	1.00	0.00
ATOM	1984	C15	LIG	114	25.729	6.724	-20.748	1.00	0.00
ATOM	1985	H10	LIG	114	25.745	7.793	-20.588	1.00	0.00
ATOM	1986	C16	LIG	114	26.974	4.643	-20.995	1.00	0.00
ATOM	1987	H11	LIG	114	27.926	4.132	-21.007	1.00	0.00
ATOM	1988	C17	LIG	114	26.929	6.014	-20.760	1.00	0.00
ATOM	1989	C18	LIG	114	13.667	5.435	-17.339	1.00	0.00
ATOM	1990	H12	LIG	114	14.685	5.276	-17.008	1.00	0.00
ATOM	1991	C19	LIG	114	11.931	5.115	-19.010	1.00	0.00
ATOM	1992	H13	LIG	114	11.626	4.732	-19.976	1.00	0.00
ATOM	1993	C20	LIG	114	12.744	6.058	-16.513	1.00	0.00
ATOM	1994	H14	LIG	114	13.049	6.407	-15.533	1.00	0.00
ATOM	1995	C21	LIG	114	11.016	5.751	-18.179	1.00	0.00
ATOM	1996	H15	LIG	114	9.988	5.868	-18.501	1.00	0.00
ATOM	1997	C22	LIG	114	11.420	6.226	-16.932	1.00	0.00
ATOM	1998	H16	LIG	114	10.704	6.710	-16.278	1.00	0.00
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ATOM	1999	S1	LIG	115	-11.665	-23.382	16.837	1.00	0.00

ATOM	2000	S2	LIG	115	-11.302	-24.023	9.106	1.00	0.00
ATOM	2001	O1	LIG	115	-12.972	-19.549	11.239	1.00	0.00
ATOM	2002	H5	LIG	115	-12.952	-19.399	10.270	1.00	0.00
ATOM	2003	O2	LIG	115	-13.071	-23.515	17.599	1.00	0.00
ATOM	2004	H6	LIG	115	-13.364	-22.562	17.717	1.00	0.00
ATOM	2005	O3	LIG	115	-10.123	-23.279	8.307	1.00	0.00
ATOM	2006	H7	LIG	115	-10.540	-22.422	8.003	1.00	0.00
ATOM	2007	O4	LIG	115	-11.232	-24.726	16.517	1.00	0.00
ATOM	2008	O5	LIG	115	-10.792	-22.466	17.558	1.00	0.00
ATOM	2009	O6	LIG	115	-10.731	-25.228	9.672	1.00	0.00
ATOM	2010	O7	LIG	115	-12.500	-24.071	8.283	1.00	0.00
ATOM	2011	O8	LIG	115	-14.379	-16.073	21.363	1.00	0.00
ATOM	2012	O9	LIG	115	-15.252	-17.714	22.485	1.00	0.00
ATOM	2013	N1	LIG	115	-13.395	-19.399	13.854	1.00	0.00
ATOM	2014	H3	LIG	115	-13.456	-18.910	12.976	1.00	0.00
ATOM	2015	H4	LIG	115	-13.636	-18.949	14.724	1.00	0.00
ATOM	2016	N2	LIG	115	-13.107	-20.413	16.234	1.00	0.00
ATOM	2017	N3	LIG	115	-12.266	-20.778	9.126	1.00	0.00
ATOM	2018	N4	LIG	115	-13.352	-20.876	17.386	1.00	0.00
ATOM	2019	N5	LIG	115	-11.700	-21.117	8.051	1.00	0.00
ATOM	2020	N6	LIG	115	-14.678	-17.252	21.508	1.00	0.00
ATOM	2021	C1	LIG	115	-12.437	-21.338	12.736	1.00	0.00

ATOM	2022	C2	LIG	115	-11.920	-22.658	12.871	1.00	0.00
ATOM	2023	C3	LIG	115	-12.843	-20.623	13.924	1.00	0.00
ATOM	2024	C4	LIG	115	-12.137	-22.557	15.284	1.00	0.00
ATOM	2025	C5	LIG	115	-11.771	-23.237	14.156	1.00	0.00
ATOM	2026	H1	LIG	115	-11.339	-24.225	14.247	1.00	0.00
ATOM	2027	C6	LIG	115	-12.515	-20.804	11.423	1.00	0.00
ATOM	2028	C7	LIG	115	-11.636	-22.867	10.466	1.00	0.00
ATOM	2029	C8	LIG	115	-11.546	-23.400	11.724	1.00	0.00
ATOM	2030	H2	LIG	115	-11.192	-24.416	11.843	1.00	0.00
ATOM	2031	C9	LIG	115	-12.697	-21.240	15.211	1.00	0.00
ATOM	2032	C10	LIG	115	-12.106	-21.532	10.281	1.00	0.00
ATOM	2033	C11	LIG	115	-13.663	-19.923	18.375	1.00	0.00
ATOM	2034	C12	LIG	115	-11.966	-20.328	6.916	1.00	0.00
ATOM	2035	C13	LIG	115	-13.335	-18.561	18.269	1.00	0.00
ATOM	2036	H8	LIG	115	-12.799	-18.207	17.398	1.00	0.00
ATOM	2037	C14	LIG	115	-14.296	-20.405	19.530	1.00	0.00
ATOM	2038	H9	LIG	115	-14.522	-21.460	19.613	1.00	0.00
ATOM	2039	C15	LIG	115	-13.668	-17.688	19.292	1.00	0.00
ATOM	2040	H10	LIG	115	-13.420	-16.637	19.241	1.00	0.00
ATOM	2041	C16	LIG	115	-14.638	-19.534	20.554	1.00	0.00
ATOM	2042	H11	LIG	115	-15.136	-19.881	21.449	1.00	0.00
ATOM	2043	C17	LIG	115	-14.323	-18.185	20.418	1.00	0.00

ATOM	2044	C18	LIG	115	-13.028	-19.412	6.826	1.00	0.00
ATOM	2045	H12	LIG	115	-13.717	-19.306	7.654	1.00	0.00
ATOM	2046	C19	LIG	115	-11.111	-20.519	5.821	1.00	0.00
ATOM	2047	H13	LIG	115	-10.311	-21.246	5.893	1.00	0.00
ATOM	2048	C20	LIG	115	-13.204	-18.681	5.662	1.00	0.00
ATOM	2049	H14	LIG	115	-14.028	-17.981	5.585	1.00	0.00
ATOM	2050	C21	LIG	115	-11.289	-19.773	4.662	1.00	0.00
ATOM	2051	H15	LIG	115	-10.621	-19.916	3.822	1.00	0.00
ATOM	2052	C22	LIG	115	-12.333	-18.852	4.581	1.00	0.00
ATOM	2053	H16	LIG	115	-12.480	-18.279	3.673	1.00	0.00

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ATOM	2054	S1	LIG	116	13.801	25.766	3.292	1.00	0.00
ATOM	2055	S2	LIG	116	8.984	25.620	9.381	1.00	0.00
ATOM	2056	O1	LIG	116	14.146	25.347	10.180	1.00	0.00
ATOM	2057	H5	LIG	116	13.732	25.369	11.069	1.00	0.00
ATOM	2058	O2	LIG	116	14.467	24.411	2.749	1.00	0.00
ATOM	2059	H6	LIG	116	15.368	24.399	3.194	1.00	0.00
ATOM	2060	O3	LIG	116	8.842	26.926	10.307	1.00	0.00
ATOM	2061	H7	LIG	116	9.467	26.751	11.069	1.00	0.00
ATOM	2062	O4	LIG	116	12.442	25.794	2.791	1.00	0.00
ATOM	2063	O5	LIG	116	14.703	26.887	3.072	1.00	0.00
ATOM	2064	O6	LIG	116	8.184	25.856	8.197	1.00	0.00

ATOM	2065	O7	LIG	116	8.801	24.423	10.187	1.00	0.00
ATOM	2066	O8	LIG	116	22.797	25.377	3.722	1.00	0.00
ATOM	2067	O9	LIG	116	22.320	24.129	2.011	1.00	0.00
ATOM	2068	N1	LIG	116	15.798	25.091	8.119	1.00	0.00
ATOM	2069	H3	LIG	116	15.725	25.132	9.123	1.00	0.00
ATOM	2070	H4	LIG	116	16.693	25.020	7.660	1.00	0.00
ATOM	2071	N2	LIG	116	16.211	25.182	5.552	1.00	0.00
ATOM	2072	N3	LIG	116	11.832	25.598	11.210	1.00	0.00
ATOM	2073	N4	LIG	116	16.531	24.865	4.369	1.00	0.00
ATOM	2074	N5	LIG	116	10.831	26.002	11.862	1.00	0.00
ATOM	2075	N6	LIG	116	22.010	24.768	3.007	1.00	0.00
ATOM	2076	C1	LIG	116	13.395	25.425	7.908	1.00	0.00
ATOM	2077	C2	LIG	116	12.283	25.561	7.030	1.00	0.00
ATOM	2078	C3	LIG	116	14.718	25.283	7.343	1.00	0.00
ATOM	2079	C4	LIG	116	13.734	25.478	5.088	1.00	0.00
ATOM	2080	C5	LIG	116	12.483	25.595	5.627	1.00	0.00
ATOM	2081	H1	LIG	116	11.633	25.739	4.972	1.00	0.00
ATOM	2082	C6	LIG	116	13.127	25.445	9.301	1.00	0.00
ATOM	2083	C7	LIG	116	10.733	25.677	8.899	1.00	0.00
ATOM	2084	C8	LIG	116	10.970	25.666	7.550	1.00	0.00
ATOM	2085	H2	LIG	116	10.133	25.728	6.867	1.00	0.00
ATOM	2086	C9	LIG	116	14.889	25.304	5.919	1.00	0.00

ATOM	2087	C10	LIG	116	11.819	25.589	9.821	1.00	0.00
ATOM	2088	C11	LIG	116	17.911	24.872	4.086	1.00	0.00
ATOM	2089	C12	LIG	116	10.912	25.920	13.265	1.00	0.00
ATOM	2090	C13	LIG	116	18.858	25.561	4.862	1.00	0.00
ATOM	2091	H8	LIG	116	18.530	26.138	5.716	1.00	0.00
ATOM	2092	C14	LIG	116	18.316	24.178	2.937	1.00	0.00
ATOM	2093	H9	LIG	116	17.576	23.671	2.331	1.00	0.00
ATOM	2094	C15	LIG	116	20.197	25.526	4.510	1.00	0.00
ATOM	2095	H10	LIG	116	20.946	26.054	5.084	1.00	0.00
ATOM	2096	C16	LIG	116	19.657	24.134	2.584	1.00	0.00
ATOM	2097	H11	LIG	116	19.994	23.596	1.709	1.00	0.00
ATOM	2098	C17	LIG	116	20.580	24.805	3.380	1.00	0.00
ATOM	2099	C18	LIG	116	11.864	25.151	13.955	1.00	0.00
ATOM	2100	H12	LIG	116	12.576	24.554	13.400	1.00	0.00
ATOM	2101	C19	LIG	116	9.945	26.643	13.978	1.00	0.00
ATOM	2102	H13	LIG	116	9.199	27.212	13.436	1.00	0.00
ATOM	2103	C20	LIG	116	11.859	25.139	15.341	1.00	0.00
ATOM	2104	H14	LIG	116	12.586	24.539	15.876	1.00	0.00
ATOM	2105	C21	LIG	116	9.955	26.632	15.368	1.00	0.00
ATOM	2106	H15	LIG	116	9.212	27.199	15.916	1.00	0.00
ATOM	2107	C22	LIG	116	10.912	25.883	16.052	1.00	0.00
ATOM	2108	H16	LIG	116	10.912	25.863	17.135	1.00	0.00

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ATOM	2109	S1	LIG	117	-8.153	-25.813	-17.240	1.00	0.00
ATOM	2110	S2	LIG	117	-2.588	-24.625	-22.524	1.00	0.00
ATOM	2111	O1	LIG	117	-4.896	-20.517	-20.254	1.00	0.00
ATOM	2112	H5	LIG	117	-4.197	-20.150	-20.837	1.00	0.00
ATOM	2113	O2	LIG	117	-9.699	-25.642	-17.635	1.00	0.00
ATOM	2114	H6	LIG	117	-9.913	-24.705	-17.342	1.00	0.00
ATOM	2115	O3	LIG	117	-1.128	-24.156	-22.042	1.00	0.00
ATOM	2116	H7	LIG	117	-1.146	-23.161	-22.150	1.00	0.00
ATOM	2117	O4	LIG	117	-7.731	-27.102	-17.748	1.00	0.00
ATOM	2118	O5	LIG	117	-7.954	-25.456	-15.843	1.00	0.00
ATOM	2119	O6	LIG	117	-2.670	-26.052	-22.289	1.00	0.00
ATOM	2120	O7	LIG	117	-2.879	-24.058	-23.832	1.00	0.00
ATOM	2121	O8	LIG	117	-12.636	-19.363	-12.817	1.00	0.00
ATOM	2122	O9	LIG	117	-14.173	-20.829	-13.264	1.00	0.00
ATOM	2123	N1	LIG	117	-6.999	-20.878	-18.677	1.00	0.00
ATOM	2124	H3	LIG	117	-6.394	-20.198	-19.108	1.00	0.00
ATOM	2125	H4	LIG	117	-7.738	-20.600	-18.049	1.00	0.00
ATOM	2126	N2	LIG	117	-8.525	-22.479	-17.306	1.00	0.00
ATOM	2127	N3	LIG	117	-3.026	-21.356	-21.762	1.00	0.00
ATOM	2128	N4	LIG	117	-9.537	-23.098	-16.865	1.00	0.00
ATOM	2129	N5	LIG	117	-1.903	-21.593	-22.286	1.00	0.00

ATOM	2130	N6	LIG	117	-13.047	-20.367	-13.386	1.00	0.00
ATOM	2131	C1	LIG	117	-5.697	-22.690	-19.650	1.00	0.00
ATOM	2132	C2	LIG	117	-5.528	-24.097	-19.786	1.00	0.00
ATOM	2133	C3	LIG	117	-6.752	-22.193	-18.797	1.00	0.00
ATOM	2134	C4	LIG	117	-7.348	-24.523	-18.242	1.00	0.00
ATOM	2135	C5	LIG	117	-6.360	-24.988	-19.063	1.00	0.00
ATOM	2136	H1	LIG	117	-6.194	-26.055	-19.145	1.00	0.00
ATOM	2137	C6	LIG	117	-4.799	-21.857	-20.367	1.00	0.00
ATOM	2138	C7	LIG	117	-3.674	-23.795	-21.330	1.00	0.00
ATOM	2139	C8	LIG	117	-4.526	-24.617	-20.642	1.00	0.00
ATOM	2140	H2	LIG	117	-4.438	-25.689	-20.764	1.00	0.00
ATOM	2141	C9	LIG	117	-7.590	-23.119	-18.090	1.00	0.00
ATOM	2142	C10	LIG	117	-3.774	-22.378	-21.192	1.00	0.00
ATOM	2143	C11	LIG	117	-10.368	-22.369	-15.991	1.00	0.00
ATOM	2144	C12	LIG	117	-1.243	-20.508	-22.892	1.00	0.00
ATOM	2145	C13	LIG	117	-9.948	-21.218	-15.302	1.00	0.00
ATOM	2146	H8	LIG	117	-8.932	-20.867	-15.421	1.00	0.00
ATOM	2147	C14	LIG	117	-11.660	-22.874	-15.792	1.00	0.00
ATOM	2148	H9	LIG	117	-11.967	-23.775	-16.308	1.00	0.00
ATOM	2149	C15	LIG	117	-10.824	-20.564	-14.453	1.00	0.00
ATOM	2150	H10	LIG	117	-10.525	-19.682	-13.903	1.00	0.00
ATOM	2151	C16	LIG	117	-12.544	-22.218	-14.947	1.00	0.00



ATOM	2152	H11	LIG	117	-13.549	-22.582	-14.787	1.00	0.00
ATOM	2153	C17	LIG	117	-12.114	-21.068	-14.293	1.00	0.00
ATOM	2154	C18	LIG	117	-1.866	-19.293	-23.223	1.00	0.00
ATOM	2155	H12	LIG	117	-2.924	-19.164	-23.038	1.00	0.00
ATOM	2156	C19	LIG	117	0.113	-20.705	-23.192	1.00	0.00
ATOM	2157	H13	LIG	117	0.577	-21.655	-22.956	1.00	0.00
ATOM	2158	C20	LIG	117	-1.125	-18.284	-23.818	1.00	0.00
ATOM	2159	H14	LIG	117	-1.605	-17.349	-24.085	1.00	0.00
ATOM	2160	C21	LIG	117	0.850	-19.683	-23.779	1.00	0.00
ATOM	2161	H15	LIG	117	1.899	-19.835	-24.001	1.00	0.00
ATOM	2162	C22	LIG	117	0.234	-18.471	-24.091	1.00	0.00
ATOM	2163	H16	LIG	117	0.805	-17.678	-24.561	1.00	0.00
TER									
ATOM	2164	S1	LIG	118	13.302	17.171	9.087	1.00	0.00
ATOM	2165	S2	LIG	118	7.484	13.243	12.409	1.00	0.00
ATOM	2166	O1	LIG	118	12.052	10.841	11.561	1.00	0.00
ATOM	2167	H5	LIG	118	11.486	10.193	12.031	1.00	0.00
ATOM	2168	O2	LIG	118	13.642	16.961	7.533	1.00	0.00
ATOM	2169	H6	LIG	118	14.385	16.285	7.546	1.00	0.00
ATOM	2170	O3	LIG	118	7.538	12.934	13.985	1.00	0.00
ATOM	2171	H7	LIG	118	7.911	12.007	14.037	1.00	0.00
ATOM	2172	O4	LIG	118	12.147	18.043	9.150	1.00	0.00

ATOM	2173	O5	LIG	118	14.518	17.483	9.825	1.00	0.00
ATOM	2174	O6	LIG	118	7.056	14.619	12.265	1.00	0.00
ATOM	2175	O7	LIG	118	6.795	12.163	11.720	1.00	0.00
ATOM	2176	O8	LIG	118	21.491	13.863	7.278	1.00	0.00
ATOM	2177	O9	LIG	118	21.041	15.076	5.535	1.00	0.00
ATOM	2178	N1	LIG	118	13.952	12.054	10.161	1.00	0.00
ATOM	2179	H3	LIG	118	13.685	11.206	10.634	1.00	0.00
ATOM	2180	H4	LIG	118	14.863	12.157	9.740	1.00	0.00
ATOM	2181	N2	LIG	118	14.904	14.223	9.082	1.00	0.00
ATOM	2182	N3	LIG	118	9.750	10.739	12.641	1.00	0.00
ATOM	2183	N4	LIG	118	15.360	15.054	8.243	1.00	0.00
ATOM	2184	N5	LIG	118	8.798	10.618	13.458	1.00	0.00
ATOM	2185	N6	LIG	118	20.729	14.521	6.580	1.00	0.00
ATOM	2186	C1	LIG	118	11.853	13.104	10.808	1.00	0.00
ATOM	2187	C2	LIG	118	11.039	14.272	10.760	1.00	0.00
ATOM	2188	C3	LIG	118	13.164	13.142	10.201	1.00	0.00
ATOM	2189	C4	LIG	118	12.777	15.505	9.602	1.00	0.00
ATOM	2190	C5	LIG	118	11.531	15.459	10.162	1.00	0.00
ATOM	2191	H1	LIG	118	10.918	16.351	10.169	1.00	0.00
ATOM	2192	C6	LIG	118	11.315	11.966	11.462	1.00	0.00
ATOM	2193	C7	LIG	118	9.234	13.146	11.936	1.00	0.00
ATOM	2194	C8	LIG	118	9.736	14.258	11.314	1.00	0.00

ATOM	2195	H2	LIG	118	9.117	15.142	11.234	1.00	0.00
ATOM	2196	C9	LIG	118	13.629	14.353	9.587	1.00	0.00
ATOM	2197	C10	LIG	118	10.027	11.965	12.049	1.00	0.00
ATOM	2198	C11	LIG	118	16.708	14.878	7.877	1.00	0.00
ATOM	2199	C12	LIG	118	8.553	9.327	13.963	1.00	0.00
ATOM	2200	C13	LIG	118	17.630	14.145	8.644	1.00	0.00
ATOM	2201	H8	LIG	118	17.312	13.698	9.576	1.00	0.00
ATOM	2202	C14	LIG	118	17.125	15.519	6.702	1.00	0.00
ATOM	2203	H9	LIG	118	16.414	16.103	6.131	1.00	0.00
ATOM	2204	C15	LIG	118	18.943	14.027	8.219	1.00	0.00
ATOM	2205	H10	LIG	118	19.675	13.477	8.793	1.00	0.00
ATOM	2206	C16	LIG	118	18.438	15.398	6.268	1.00	0.00
ATOM	2207	H11	LIG	118	18.779	15.874	5.360	1.00	0.00
ATOM	2208	C17	LIG	118	19.327	14.649	7.032	1.00	0.00
ATOM	2209	C18	LIG	118	9.072	8.150	13.397	1.00	0.00
ATOM	2210	H12	LIG	118	9.678	8.206	12.503	1.00	0.00
ATOM	2211	C19	LIG	118	7.712	9.255	15.083	1.00	0.00
ATOM	2212	H13	LIG	118	7.297	10.167	15.495	1.00	0.00
ATOM	2213	C20	LIG	118	8.772	6.925	13.972	1.00	0.00
ATOM	2214	H14	LIG	118	9.162	6.014	13.533	1.00	0.00
ATOM	2215	C21	LIG	118	7.426	8.022	15.658	1.00	0.00
ATOM	2216	H15	LIG	118	6.784	7.971	16.528	1.00	0.00

ATOM	2217	C22	LIG	118	7.956	6.857	15.106	1.00	0.00
ATOM	2218	H16	LIG	118	7.723	5.894	15.547	1.00	0.00
TER									
ATOM	2219	S1	LIG	119	21.802	-19.705	-10.797	1.00	0.00
ATOM	2220	S2	LIG	119	23.612	-22.021	-17.984	1.00	0.00
ATOM	2221	O1	LIG	119	18.598	-21.220	-16.728	1.00	0.00
ATOM	2222	H5	LIG	119	18.608	-21.450	-17.682	1.00	0.00
ATOM	2223	O2	LIG	119	21.230	-20.753	-9.724	1.00	0.00
ATOM	2224	H6	LIG	119	20.234	-20.632	-9.787	1.00	0.00
ATOM	2225	O3	LIG	119	23.547	-20.966	-19.194	1.00	0.00
ATOM	2226	H7	LIG	119	22.646	-21.119	-19.601	1.00	0.00
ATOM	2227	O4	LIG	119	23.235	-19.907	-10.857	1.00	0.00
ATOM	2228	O5	LIG	119	21.241	-18.384	-10.550	1.00	0.00
ATOM	2229	O6	LIG	119	24.853	-21.776	-17.279	1.00	0.00
ATOM	2230	O7	LIG	119	23.272	-23.349	-18.472	1.00	0.00
ATOM	2231	O8	LIG	119	13.472	-18.059	-7.768	1.00	0.00
ATOM	2232	O9	LIG	119	14.425	-19.068	-6.099	1.00	0.00
ATOM	2233	N1	LIG	119	17.922	-20.724	-14.211	1.00	0.00
ATOM	2234	H3	LIG	119	17.580	-20.876	-15.146	1.00	0.00
ATOM	2235	H4	LIG	119	17.295	-20.504	-13.452	1.00	0.00
ATOM	2236	N2	LIG	119	18.619	-20.095	-11.784	1.00	0.00
ATOM	2237	N3	LIG	119	20.293	-21.697	-18.566	1.00	0.00

ATOM	2238	N4	LIG	119	18.771	-20.118	-10.528	1.00	0.00
ATOM	2239	N5	LIG	119	20.984	-21.656	-19.620	1.00	0.00
ATOM	2240	N6	LIG	119	14.386	-18.701	-7.265	1.00	0.00
ATOM	2241	C1	LIG	119	20.219	-20.926	-14.992	1.00	0.00
ATOM	2242	C2	LIG	119	21.601	-20.903	-14.649	1.00	0.00
ATOM	2243	C3	LIG	119	19.241	-20.657	-13.963	1.00	0.00
ATOM	2244	C4	LIG	119	21.082	-20.308	-12.357	1.00	0.00
ATOM	2245	C5	LIG	119	22.003	-20.581	-13.329	1.00	0.00
ATOM	2246	H1	LIG	119	23.058	-20.527	-13.092	1.00	0.00
ATOM	2247	C6	LIG	119	19.891	-21.211	-16.342	1.00	0.00
ATOM	2248	C7	LIG	119	22.244	-21.477	-16.922	1.00	0.00
ATOM	2249	C8	LIG	119	22.584	-21.198	-15.625	1.00	0.00
ATOM	2250	H2	LIG	119	23.627	-21.214	-15.338	1.00	0.00
ATOM	2251	C9	LIG	119	19.675	-20.349	-12.630	1.00	0.00
ATOM	2252	C10	LIG	119	20.875	-21.468	-17.326	1.00	0.00
ATOM	2253	C11	LIG	119	17.647	-19.742	-9.768	1.00	0.00
ATOM	2254	C12	LIG	119	20.323	-21.959	-20.825	1.00	0.00
ATOM	2255	C13	LIG	119	16.575	-18.997	-10.287	1.00	0.00
ATOM	2256	H8	LIG	119	16.602	-18.669	-11.317	1.00	0.00
ATOM	2257	C14	LIG	119	17.654	-20.112	-8.415	1.00	0.00
ATOM	2258	H9	LIG	119	18.497	-20.665	-8.018	1.00	0.00
ATOM	2259	C15	LIG	119	15.509	-18.658	-9.470	1.00	0.00

ATOM	2260	H10	LIG	119	14.675	-18.078	-9.839	1.00	0.00
ATOM	2261	C16	LIG	119	16.586	-19.782	-7.594	1.00	0.00
ATOM	2262	H11	LIG	119	16.565	-20.066	-6.551	1.00	0.00
ATOM	2263	C17	LIG	119	15.525	-19.062	-8.136	1.00	0.00
ATOM	2264	C18	LIG	119	19.071	-22.593	-20.898	1.00	0.00
ATOM	2265	H12	LIG	119	18.573	-22.903	-19.989	1.00	0.00
ATOM	2266	C19	LIG	119	21.004	-21.616	-22.002	1.00	0.00
ATOM	2267	H13	LIG	119	21.981	-21.152	-21.934	1.00	0.00
ATOM	2268	C20	LIG	119	18.504	-22.847	-22.137	1.00	0.00
ATOM	2269	H14	LIG	119	17.543	-23.345	-22.197	1.00	0.00
ATOM	2270	C21	LIG	119	20.422	-21.866	-23.239	1.00	0.00
ATOM	2271	H15	LIG	119	20.947	-21.591	-24.146	1.00	0.00
ATOM	2272	C22	LIG	119	19.172	-22.478	-23.310	1.00	0.00
ATOM	2273	H16	LIG	119	18.723	-22.685	-24.274	1.00	0.00
TER									
END									

**Table K:** The number of atoms present in the system of BN-SIs

ATOM	1	N	GLN	1	-8.592	-10.154	3.231	1.00	0.00
ATOM	2	H1	GLN	1	-7.661	-10.485	3.440	1.00	0.00
ATOM	3	H2	GLN	1	-8.823	-9.408	3.871	1.00	0.00
ATOM	4	H3	GLN	1	-8.669	-10.007	2.235	1.00	0.00

ATOM	5	CA	GLN	1	-9.537	-11.232	3.537	1.00	0.00
ATOM	6	HA	GLN	1	-10.239	-10.894	4.299	1.00	0.00
ATOM	7	CB	GLN	1	-10.330	-11.648	2.290	1.00	0.00
ATOM	8	HB2	GLN	1	-10.033	-11.014	1.455	1.00	0.00
ATOM	9	HB3	GLN	1	-10.100	-12.688	2.056	1.00	0.00
ATOM	10	CG	GLN	1	-11.830	-11.501	2.531	1.00	0.00
ATOM	11	HG2	GLN	1	-12.445	-12.308	2.132	1.00	0.00
ATOM	12	HG3	GLN	1	-11.906	-11.490	3.618	1.00	0.00
ATOM	13	CD	GLN	1	-12.355	-10.180	1.994	1.00	0.00
ATOM	14	OE1	GLN	1	-12.713	-9.279	2.734	1.00	0.00
ATOM	15	NE2	GLN	1	-12.251	-10.020	0.688	1.00	0.00
ATOM	16	HE21	GLN	1	-12.579	-9.167	0.259	1.00	0.00
ATOM	17	HE22	GLN	1	-11.844	-10.752	0.123	1.00	0.00
ATOM	18	C	GLN	1	-8.805	-12.435	4.121	1.00	0.00
ATOM	19	O	GLN	1	-9.157	-12.915	5.189	1.00	0.00
ATOM	20	N	PRO	2	-7.747	-12.886	3.425	1.00	0.00
ATOM	21	CD	PRO	2	-7.251	-12.362	2.154	1.00	0.00
ATOM	22	HD2	PRO	2	-6.846	-11.368	2.344	1.00	0.00
ATOM	23	HD3	PRO	2	-8.101	-12.284	1.477	1.00	0.00
ATOM	24	CG	PRO	2	-6.197	-13.335	1.651	1.00	0.00
ATOM	25	HG2	PRO	2	-5.232	-12.830	1.610	1.00	0.00
ATOM	26	HG3	PRO	2	-6.471	-13.676	0.652	1.00	0.00

ATOM	27	CB	PRO	2	-6.174	-14.501	2.638	1.00	0.00
ATOM	28	HB2	PRO	2	-5.154	-14.762	2.921	1.00	0.00
ATOM	29	HB3	PRO	2	-6.668	-15.376	2.216	1.00	0.00
ATOM	30	CA	PRO	2	-6.943	-14.008	3.862	1.00	0.00
ATOM	31	HA	PRO	2	-7.613	-14.814	4.161	1.00	0.00
ATOM	32	C	PRO	2	-6.053	-13.642	5.018	1.00	0.00
ATOM	33	O	PRO	2	-5.064	-12.961	4.806	1.00	0.00
ATOM	34	N	GLN	3	-6.399	-14.105	6.223	1.00	0.00
ATOM	35	H	GLN	3	-7.222	-14.683	6.318	1.00	0.00
ATOM	36	CA	GLN	3	-5.631	-13.803	7.412	1.00	0.00
ATOM	37	HA	GLN	3	-5.557	-12.723	7.535	1.00	0.00
ATOM	38	CB	GLN	3	-6.297	-14.391	8.655	1.00	0.00
ATOM	39	HB2	GLN	3	-7.348	-14.580	8.436	1.00	0.00
ATOM	40	HB3	GLN	3	-5.805	-15.331	8.907	1.00	0.00
ATOM	41	CG	GLN	3	-6.188	-13.422	9.840	1.00	0.00
ATOM	42	HG2	GLN	3	-5.742	-13.966	10.673	1.00	0.00
ATOM	43	HG3	GLN	3	-5.558	-12.570	9.584	1.00	0.00
ATOM	44	CD	GLN	3	-7.545	-12.909	10.269	1.00	0.00
ATOM	45	OE1	GLN	3	-8.165	-13.423	11.179	1.00	0.00
ATOM	46	NE2	GLN	3	-8.011	-11.897	9.559	1.00	0.00
ATOM	47	HE21	GLN	3	-8.911	-11.499	9.784	1.00	0.00
ATOM	48	HE22	GLN	3	-7.465	-11.527	8.794	1.00	0.00



ATOM	49	C	GLN	3	-4.249	-14.380	7.288	1.00	0.00
ATOM	50	O	GLN	3	-3.308	-13.803	7.760	1.00	0.00
ATOM	51	N	LYS	4	-4.083	-15.494	6.583	1.00	0.00
ATOM	52	H	LYS	4	-4.899	-15.976	6.234	1.00	0.00
ATOM	53	CA	LYS	4	-2.779	-16.101	6.367	1.00	0.00
ATOM	54	HA	LYS	4	-2.428	-16.580	7.281	1.00	0.00
ATOM	55	CB	LYS	4	-2.886	-17.163	5.269	1.00	0.00
ATOM	56	HB2	LYS	4	-2.054	-17.859	5.380	1.00	0.00
ATOM	57	HB3	LYS	4	-3.826	-17.699	5.398	1.00	0.00
ATOM	58	CG	LYS	4	-2.844	-16.534	3.867	1.00	0.00
ATOM	59	HG2	LYS	4	-3.053	-15.468	3.955	1.00	0.00
ATOM	60	HG3	LYS	4	-1.847	-16.676	3.449	1.00	0.00
ATOM	61	CD	LYS	4	-3.878	-17.181	2.947	1.00	0.00
ATOM	62	HD2	LYS	4	-4.841	-17.203	3.458	1.00	0.00
ATOM	63	HD3	LYS	4	-3.963	-16.586	2.038	1.00	0.00
ATOM	64	CE	LYS	4	-3.462	-18.606	2.585	1.00	0.00
ATOM	65	HE2	LYS	4	-3.261	-18.659	1.515	1.00	0.00
ATOM	66	HE3	LYS	4	-2.559	-18.866	3.137	1.00	0.00
ATOM	67	NZ	LYS	4	-4.538	-19.553	2.930	1.00	0.00
ATOM	68	HZ1	LYS	4	-5.375	-19.313	2.418	1.00	0.00
ATOM	69	HZ2	LYS	4	-4.252	-20.491	2.686	1.00	0.00
ATOM	70	HZ3	LYS	4	-4.724	-19.505	3.921	1.00	0.00

ATOM	71	C	LYS	4	-1.725	-15.029	6.038	1.00	0.00
ATOM	72	O	LYS	4	-0.582	-15.193	6.402	1.00	0.00
ATOM	73	N	CYX	5	-2.169	-13.930	5.402	1.00	0.00
ATOM	74	H	CYX	5	-3.129	-13.897	5.090	1.00	0.00
ATOM	75	CA	CYX	5	-1.330	-12.813	5.126	1.00	0.00
ATOM	76	HA	CYX	5	-0.313	-13.009	5.465	1.00	0.00
ATOM	77	CB	CYX	5	-1.303	-12.568	3.640	1.00	0.00
ATOM	78	HB2	CYX	5	-1.894	-13.332	3.134	1.00	0.00
ATOM	79	HB3	CYX	5	-1.721	-11.585	3.426	1.00	0.00
ATOM	80	SG	CYX	5	0.363	-12.646	2.914	1.00	0.00
ATOM	81	C	CYX	5	-1.842	-11.607	5.844	1.00	0.00
ATOM	82	O	CYX	5	-1.086	-10.850	6.370	1.00	0.00
ATOM	83	N	GLN	6	-3.152	-11.416	5.967	1.00	0.00
ATOM	84	H	GLN	6	-3.766	-12.054	5.480	1.00	0.00
ATOM	85	CA	GLN	6	-3.742	-10.311	6.686	1.00	0.00
ATOM	86	HA	GLN	6	-3.331	-9.371	6.318	1.00	0.00
ATOM	87	CB	GLN	6	-5.259	-10.291	6.491	1.00	0.00
ATOM	88	HB2	GLN	6	-5.577	-11.277	6.153	1.00	0.00
ATOM	89	HB3	GLN	6	-5.728	-10.067	7.449	1.00	0.00
ATOM	90	CG	GLN	6	-5.675	-9.244	5.465	1.00	0.00
ATOM	91	HG2	GLN	6	-4.761	-8.739	5.152	1.00	0.00
ATOM	92	HG3	GLN	6	-6.149	-9.706	4.599	1.00	0.00

ATOM	93	CD	GLN	6	-6.621	-8.216	6.043	1.00	0.00
ATOM	94	OE1	GLN	6	-6.641	-7.917	7.222	1.00	0.00
ATOM	95	NE2	GLN	6	-7.483	-7.698	5.179	1.00	0.00
ATOM	96	HE21	GLN	6	-8.148	-7.004	5.488	1.00	0.00
ATOM	97	HE22	GLN	6	-7.470	-8.000	4.215	1.00	0.00
ATOM	98	C	GLN	6	-3.390	-10.350	8.163	1.00	0.00
ATOM	99	O	GLN	6	-3.635	-9.403	8.891	1.00	0.00
ATOM	100	N	ARG	7	-2.824	-11.458	8.623	1.00	0.00
ATOM	101	H	ARG	7	-2.700	-12.208	7.957	1.00	0.00
ATOM	102	CA	ARG	7	-2.413	-11.678	9.977	1.00	0.00
ATOM	103	HA	ARG	7	-2.818	-10.887	10.608	1.00	0.00
ATOM	104	CB	ARG	7	-2.908	-13.028	10.506	1.00	0.00
ATOM	105	HB2	ARG	7	-3.713	-13.387	9.864	1.00	0.00
ATOM	106	HB3	ARG	7	-2.083	-13.741	10.486	1.00	0.00
ATOM	107	CG	ARG	7	-3.423	-12.886	11.935	1.00	0.00
ATOM	108	HG2	ARG	7	-2.695	-12.319	12.514	1.00	0.00
ATOM	109	HG3	ARG	7	-4.370	-12.346	11.913	1.00	0.00
ATOM	110	CD	ARG	7	-3.633	-14.259	12.583	1.00	0.00
ATOM	111	HD2	ARG	7	-4.627	-14.635	12.338	1.00	0.00
ATOM	112	HD3	ARG	7	-2.881	-14.959	12.217	1.00	0.00
ATOM	113	NE	ARG	7	-3.513	-14.160	14.052	1.00	0.00
ATOM	114	HE	ARG	7	-4.375	-14.068	14.570	1.00	0.00

ATOM	115	CZ	ARG	7	-2.371	-14.178	14.723	1.00	0.00
ATOM	116	NH1	ARG	7	-1.229	-14.309	14.089	1.00	0.00
ATOM	117	HH11	ARG	7	-1.221	-14.397	13.083	1.00	0.00
ATOM	118	HH12	ARG	7	-0.364	-14.322	14.610	1.00	0.00
ATOM	119	NH2	ARG	7	-2.369	-14.071	16.030	1.00	0.00
ATOM	120	HH21	ARG	7	-3.243	-13.975	16.527	1.00	0.00
ATOM	121	HH22	ARG	7	-1.494	-14.086	16.533	1.00	0.00
ATOM	122	C	ARG	7	-0.912	-11.624	10.078	1.00	0.00
ATOM	123	O	ARG	7	-0.436	-11.631	11.186	1.00	0.00
ATOM	124	N	GLU	8	-0.216	-11.612	8.954	1.00	0.00
ATOM	125	H	GLU	8	-0.714	-11.705	8.080	1.00	0.00
ATOM	126	CA	GLU	8	1.229	-11.535	8.915	1.00	0.00
ATOM	127	HA	GLU	8	1.631	-11.577	9.927	1.00	0.00
ATOM	128	CB	GLU	8	1.798	-12.707	8.115	1.00	0.00
ATOM	129	HB2	GLU	8	0.975	-13.251	7.650	1.00	0.00
ATOM	130	HB3	GLU	8	2.460	-12.319	7.341	1.00	0.00
ATOM	131	CG	GLU	8	2.583	-13.654	9.030	1.00	0.00
ATOM	132	HG2	GLU	8	2.239	-13.459	10.045	1.00	0.00
ATOM	133	HG3	GLU	8	2.391	-14.697	8.776	1.00	0.00
ATOM	134	CD	GLU	8	4.087	-13.375	8.938	1.00	0.00
ATOM	135	OE1	GLU	8	4.646	-13.639	7.854	1.00	0.00
ATOM	136	OE2	GLU	8	4.643	-12.959	9.973	1.00	0.00

ATOM	137	C	GLU	8	1.705	-10.214	8.328	1.00	0.00
ATOM	138	O	GLU	8	2.773	-9.729	8.644	1.00	0.00
ATOM	139	N	PHE	9	0.846	-9.558	7.560	1.00	0.00
ATOM	140	H	PHE	9	-0.068	-9.968	7.428	1.00	0.00
ATOM	141	CA	PHE	9	1.131	-8.316	6.915	1.00	0.00
ATOM	142	HA	PHE	9	2.169	-8.283	6.585	1.00	0.00
ATOM	143	CB	PHE	9	0.227	-8.180	5.694	1.00	0.00
ATOM	144	HB2	PHE	9	0.702	-8.676	4.847	1.00	0.00
ATOM	145	HB3	PHE	9	-0.744	-8.638	5.885	1.00	0.00
ATOM	146	CG	PHE	9	-0.044	-6.753	5.265	1.00	0.00
ATOM	147	CD1	PHE	9	-0.867	-5.914	6.035	1.00	0.00
ATOM	148	HD1	PHE	9	-1.339	-6.316	6.931	1.00	0.00
ATOM	149	CE1	PHE	9	-1.084	-4.588	5.669	1.00	0.00
ATOM	150	HE1	PHE	9	-1.683	-3.935	6.303	1.00	0.00
ATOM	151	CZ	PHE	9	-0.533	-4.098	4.488	1.00	0.00
ATOM	152	HZ	PHE	9	-0.707	-3.067	4.179	1.00	0.00
ATOM	153	CE2	PHE	9	0.249	-4.941	3.696	1.00	0.00
ATOM	154	HE2	PHE	9	0.661	-4.557	2.763	1.00	0.00
ATOM	155	CD2	PHE	9	0.506	-6.259	4.083	1.00	0.00
ATOM	156	HD2	PHE	9	1.134	-6.897	3.461	1.00	0.00
ATOM	157	C	PHE	9	0.863	-7.203	7.885	1.00	0.00
ATOM	158	O	PHE	9	1.537	-6.193	7.905	1.00	0.00

ATOM	159	N	GLN	10	-0.210	-7.330	8.682	1.00	0.00
ATOM	160	H	GLN	10	-0.799	-8.146	8.587	1.00	0.00
ATOM	161	CA	GLN	10	-0.598	-6.312	9.629	1.00	0.00
ATOM	162	HA	GLN	10	-0.144	-5.361	9.350	1.00	0.00
ATOM	163	CB	GLN	10	-2.121	-6.140	9.652	1.00	0.00
ATOM	164	HB2	GLN	10	-2.417	-5.542	8.791	1.00	0.00
ATOM	165	HB3	GLN	10	-2.584	-7.125	9.586	1.00	0.00
ATOM	166	CG	GLN	10	-2.580	-5.444	10.941	1.00	0.00
ATOM	167	HG2	GLN	10	-2.432	-6.103	11.796	1.00	0.00
ATOM	168	HG3	GLN	10	-1.979	-4.544	11.068	1.00	0.00
ATOM	169	CD	GLN	10	-4.031	-5.049	10.883	1.00	0.00
ATOM	170	OE1	GLN	10	-4.400	-4.052	10.283	1.00	0.00
ATOM	171	NE2	GLN	10	-4.870	-5.864	11.496	1.00	0.00
ATOM	172	HE21	GLN	10	-5.859	-5.659	11.496	1.00	0.00
ATOM	173	HE22	GLN	10	-4.519	-6.689	11.962	1.00	0.00
ATOM	174	C	GLN	10	-0.055	-6.683	11.003	1.00	0.00
ATOM	175	O	GLN	10	-0.072	-5.875	11.930	1.00	0.00
ATOM	176	N	GLN	11	0.414	-7.915	11.161	1.00	0.00
ATOM	177	H	GLN	11	0.370	-8.567	10.390	1.00	0.00
ATOM	178	CA	GLN	11	0.944	-8.378	12.417	1.00	0.00
ATOM	179	HA	GLN	11	0.139	-8.478	13.145	1.00	0.00
ATOM	180	CB	GLN	11	1.613	-9.736	12.241	1.00	0.00

ATOM	181	HB2	GLN	11	1.285	-10.173	11.297	1.00	0.00
ATOM	182	HB3	GLN	11	2.694	-9.598	12.221	1.00	0.00
ATOM	183	CG	GLN	11	1.240	-10.673	13.393	1.00	0.00
ATOM	184	HG2	GLN	11	0.421	-10.202	13.936	1.00	0.00
ATOM	185	HG3	GLN	11	0.915	-11.644	13.018	1.00	0.00
ATOM	186	CD	GLN	11	2.396	-10.885	14.349	1.00	0.00
ATOM	187	OE1	GLN	11	3.550	-10.924	13.981	1.00	0.00
ATOM	188	NE2	GLN	11	2.056	-11.077	15.613	1.00	0.00
ATOM	189	HE21	GLN	11	2.773	-11.226	16.309	1.00	0.00
ATOM	190	HE22	GLN	11	1.081	-11.075	15.876	1.00	0.00
ATOM	191	C	GLN	11	1.932	-7.377	12.985	1.00	0.00
ATOM	192	O	GLN	11	1.733	-6.862	14.081	1.00	0.00
ATOM	193	N	GLU	12	2.922	-7.008	12.171	1.00	0.00
ATOM	194	H	GLU	12	2.992	-7.421	11.252	1.00	0.00
ATOM	195	CA	GLU	12	3.966	-6.093	12.596	1.00	0.00
ATOM	196	HA	GLU	12	3.519	-5.121	12.805	1.00	0.00
ATOM	197	CB	GLU	12	4.692	-6.581	13.859	1.00	0.00
ATOM	198	HB2	GLU	12	5.716	-6.208	13.833	1.00	0.00
ATOM	199	HB3	GLU	12	4.179	-6.173	14.730	1.00	0.00
ATOM	200	CG	GLU	12	4.708	-8.110	13.947	1.00	0.00
ATOM	201	HG2	GLU	12	3.809	-8.476	14.443	1.00	0.00
ATOM	202	HG3	GLU	12	4.727	-8.471	12.918	1.00	0.00

ATOM	203	CD	GLU	12	5.934	-8.618	14.683	1.00	0.00
ATOM	204	OE1	GLU	12	6.984	-8.757	14.015	1.00	0.00
ATOM	205	OE2	GLU	12	5.823	-8.809	15.918	1.00	0.00
ATOM	206	C	GLU	12	4.952	-5.853	11.461	1.00	0.00
ATOM	207	O	GLU	12	6.137	-5.617	11.667	1.00	0.00
ATOM	208	N	GLN	13	4.443	-5.870	10.230	1.00	0.00
ATOM	209	H	GLN	13	3.466	-6.091	10.098	1.00	0.00
ATOM	210	CA	GLN	13	5.260	-5.657	9.060	1.00	0.00
ATOM	211	HA	GLN	13	6.004	-4.888	9.266	1.00	0.00
ATOM	212	CB	GLN	13	5.986	-6.946	8.665	1.00	0.00
ATOM	213	HB2	GLN	13	5.407	-7.800	9.018	1.00	0.00
ATOM	214	HB3	GLN	13	6.068	-6.987	7.579	1.00	0.00
ATOM	215	CG	GLN	13	7.382	-6.988	9.282	1.00	0.00
ATOM	216	HG2	GLN	13	7.866	-6.012	9.273	1.00	0.00
ATOM	217	HG3	GLN	13	7.252	-7.319	10.312	1.00	0.00
ATOM	218	CD	GLN	13	8.278	-7.980	8.564	1.00	0.00
ATOM	219	OE1	GLN	13	8.201	-8.205	7.365	1.00	0.00
ATOM	220	NE2	GLN	13	9.215	-8.545	9.308	1.00	0.00
ATOM	221	HE21	GLN	13	9.847	-9.216	8.895	1.00	0.00
ATOM	222	HE22	GLN	13	9.293	-8.303	10.285	1.00	0.00
ATOM	223	C	GLN	13	4.418	-5.134	7.928	1.00	0.00
ATOM	224	O	GLN	13	4.437	-5.670	6.859	1.00	0.00



ATOM	225	N	HIE	14	3.634	-4.088	8.182	1.00	0.00
ATOM	226	H	HIE	14	3.614	-3.723	9.123	1.00	0.00
ATOM	227	CA	HIE	14	2.739	-3.509	7.202	1.00	0.00
ATOM	228	HA	HIE	14	2.131	-4.295	6.754	1.00	0.00
ATOM	229	CB	HIE	14	1.809	-2.480	7.851	1.00	0.00
ATOM	230	HB2	HIE	14	2.271	-1.493	7.856	1.00	0.00
ATOM	231	HB3	HIE	14	0.888	-2.447	7.268	1.00	0.00
ATOM	232	CG	HIE	14	1.410	-2.774	9.267	1.00	0.00
ATOM	233	ND1	HIE	14	0.858	-1.846	10.115	1.00	0.00
ATOM	234	CE1	HIE	14	0.634	-2.431	11.299	1.00	0.00
ATOM	235	HE1	HIE	14	0.170	-1.880	12.117	1.00	0.00
ATOM	236	NE2	HIE	14	1.067	-3.692	11.227	1.00	0.00
ATOM	237	HE2	HIE	14	1.052	-4.364	11.981	1.00	0.00
ATOM	238	CD2	HIE	14	1.538	-3.938	9.966	1.00	0.00
ATOM	239	HD2	HIE	14	1.915	-4.928	9.708	1.00	0.00
ATOM	240	C	HIE	14	3.585	-2.927	6.079	1.00	0.00
ATOM	241	O	HIE	14	4.695	-3.338	5.781	1.00	0.00
ATOM	242	N	LEU	15	3.087	-1.850	5.474	1.00	0.00
ATOM	243	H	LEU	15	2.158	-1.531	5.707	1.00	0.00
ATOM	244	CA	LEU	15	3.790	-1.185	4.401	1.00	0.00
ATOM	245	HA	LEU	15	4.790	-1.604	4.294	1.00	0.00
ATOM	246	CB	LEU	15	3.035	-1.376	3.079	1.00	0.00

ATOM	247	HB2 LEU	15	2.207	-0.673	3.166	1.00	0.00
ATOM	248	HB3 LEU	15	3.672	-1.084	2.244	1.00	0.00
ATOM	249	CG LEU	15	2.485	-2.784	2.833	1.00	0.00
ATOM	250	HG LEU	15	1.629	-2.947	3.488	1.00	0.00
ATOM	251	CD1 LEU	15	2.052	-2.951	1.381	1.00	0.00
ATOM	252	HD11 LEU	15	2.907	-2.789	0.725	1.00	0.00
ATOM	253	HD12 LEU	15	1.665	-3.959	1.230	1.00	0.00
ATOM	254	HD13 LEU	15	1.273	-2.225	1.147	1.00	0.00
ATOM	255	CD2 LEU	15	3.470	-3.848	3.225	1.00	0.00
ATOM	256	HD21 LEU	15	3.704	-3.755	4.285	1.00	0.00
ATOM	257	HD22 LEU	15	3.039	-4.831	3.034	1.00	0.00
ATOM	258	HD23 LEU	15	4.383	-3.732	2.640	1.00	0.00
ATOM	259	C LEU	15	4.017	0.265	4.757	1.00	0.00
ATOM	260	O LEU	15	3.424	0.763	5.720	1.00	0.00
ATOM	261	N ARG	16	4.829	0.955	3.955	1.00	0.00
ATOM	262	H ARG	16	5.244	0.497	3.156	1.00	0.00
ATOM	263	CA ARG	16	5.138	2.347	4.183	1.00	0.00
ATOM	264	HA ARG	16	4.279	2.840	4.639	1.00	0.00
ATOM	265	CB ARG	16	6.339	2.499	5.114	1.00	0.00
ATOM	266	HB2 ARG	16	7.043	1.693	4.908	1.00	0.00
ATOM	267	HB3 ARG	16	6.816	3.458	4.913	1.00	0.00
ATOM	268	CG ARG	16	5.911	2.440	6.581	1.00	0.00

ATOM	269	HG2 ARG	16	4.840	2.243	6.624	1.00	0.00
ATOM	270	HG3 ARG	16	6.449	1.627	7.069	1.00	0.00
ATOM	271	CD ARG	16	6.217	3.757	7.297	1.00	0.00
ATOM	272	HD2 ARG	16	6.185	4.577	6.580	1.00	0.00
ATOM	273	HD3 ARG	16	5.476	3.928	8.077	1.00	0.00
ATOM	274	NE ARG	16	7.556	3.722	7.916	1.00	0.00
ATOM	275	HE ARG	16	8.193	3.024	7.560	1.00	0.00
ATOM	276	CZ ARG	16	7.974	4.526	8.876	1.00	0.00
ATOM	277	NH1 ARG	16	7.179	5.454	9.358	1.00	0.00
ATOM	278	HH11 ARG	16	6.243	5.552	8.992	1.00	0.00
ATOM	279	HH12 ARG	16	7.508	6.064	10.092	1.00	0.00
ATOM	280	NH2 ARG	16	9.184	4.402	9.364	1.00	0.00
ATOM	281	HH21 ARG	16	9.800	3.687	9.003	1.00	0.00
ATOM	282	HH22 ARG	16	9.495	5.021	10.098	1.00	0.00
ATOM	283	C ARG	16	5.460	3.001	2.888	1.00	0.00
ATOM	284	O ARG	16	4.642	3.736	2.405	1.00	0.00
ATOM	285	N ALA	17	6.596	2.714	2.290	1.00	0.00
ATOM	286	H ALA	17	7.256	2.125	2.777	1.00	0.00
ATOM	287	CA ALA	17	6.983	3.265	1.018	1.00	0.00
ATOM	288	HA ALA	17	7.140	4.337	1.133	1.00	0.00
ATOM	289	CB ALA	17	8.299	2.624	0.553	1.00	0.00
ATOM	290	HB1 ALA	17	8.156	1.551	0.424	1.00	0.00

ATOM	291	HB2 ALA	17	8.603	3.065	-0.396	1.00	0.00
ATOM	292	HB3 ALA	17	9.073	2.799	1.300	1.00	0.00
ATOM	293	C ALA	17	5.859	3.091	-0.022	1.00	0.00
ATOM	294	O ALA	17	5.761	3.834	-0.989	1.00	0.00
ATOM	295	N CYX	18	4.920	2.175	0.236	1.00	0.00
ATOM	296	H CYX	18	5.021	1.617	1.072	1.00	0.00
ATOM	297	CA CYX	18	3.823	1.901	-0.630	1.00	0.00
ATOM	298	HA CYX	18	4.110	2.118	-1.659	1.00	0.00
ATOM	299	CB CYX	18	3.402	0.440	-0.541	1.00	0.00
ATOM	300	HB2 CYX	18	4.212	-0.146	-0.106	1.00	0.00
ATOM	301	HB3 CYX	18	2.515	0.354	0.086	1.00	0.00
ATOM	302	SG CYX	18	3.040	-0.355	-2.124	1.00	0.00
ATOM	303	C CYX	18	2.709	2.835	-0.251	1.00	0.00
ATOM	304	O CYX	18	2.153	3.533	-1.081	1.00	0.00
ATOM	305	N GLN	19	2.380	2.881	1.037	1.00	0.00
ATOM	306	H GLN	19	2.813	2.232	1.678	1.00	0.00
ATOM	307	CA GLN	19	1.365	3.761	1.542	1.00	0.00
ATOM	308	HA GLN	19	0.647	3.998	0.757	1.00	0.00
ATOM	309	CB GLN	19	0.630	3.088	2.683	1.00	0.00
ATOM	310	HB2 GLN	19	-0.192	3.740	2.977	1.00	0.00
ATOM	311	HB3 GLN	19	0.229	2.146	2.308	1.00	0.00
ATOM	312	CG GLN	19	1.519	2.816	3.890	1.00	0.00

ATOM	313	HG2	GLN	19	1.339	1.800	4.243	1.00	0.00
ATOM	314	HG3	GLN	19	2.565	2.920	3.602	1.00	0.00
ATOM	315	CD	GLN	19	1.229	3.785	5.027	1.00	0.00
ATOM	316	OE1	GLN	19	2.115	4.417	5.602	1.00	0.00
ATOM	317	NE2	GLN	19	-0.046	3.906	5.369	1.00	0.00
ATOM	318	HE21	GLN	19	-0.308	4.532	6.116	1.00	0.00
ATOM	319	HE22	GLN	19	-0.750	3.371	4.880	1.00	0.00
ATOM	320	C	GLN	19	1.948	5.088	1.958	1.00	0.00
ATOM	321	O	GLN	19	1.452	5.702	2.873	1.00	0.00
ATOM	322	N	GLN	20	3.031	5.529	1.341	1.00	0.00
ATOM	323	H	GLN	20	3.410	4.961	0.596	1.00	0.00
ATOM	324	CA	GLN	20	3.721	6.746	1.692	1.00	0.00
ATOM	325	HA	GLN	20	3.075	7.340	2.338	1.00	0.00
ATOM	326	CB	GLN	20	5.040	6.487	2.424	1.00	0.00
ATOM	327	HB2	GLN	20	5.598	5.727	1.877	1.00	0.00
ATOM	328	HB3	GLN	20	5.614	7.413	2.446	1.00	0.00
ATOM	329	CG	GLN	20	4.792	6.005	3.861	1.00	0.00
ATOM	330	HG2	GLN	20	3.830	5.495	3.922	1.00	0.00
ATOM	331	HG3	GLN	20	5.590	5.306	4.114	1.00	0.00
ATOM	332	CD	GLN	20	4.804	7.129	4.858	1.00	0.00
ATOM	333	OE1	GLN	20	5.364	8.191	4.655	1.00	0.00
ATOM	334	NE2	GLN	20	4.135	6.918	5.980	1.00	0.00

ATOM	335	HE21	GLN	20	4.106	7.636	6.689	1.00	0.00
ATOM	336	HE22	GLN	20	3.657	6.039	6.121	1.00	0.00
ATOM	337	C	GLN	20	3.985	7.534	0.435	1.00	0.00
ATOM	338	O	GLN	20	3.802	8.742	0.411	1.00	0.00
ATOM	339	N	TRP	21	4.361	6.847	-0.644	1.00	0.00
ATOM	340	H	TRP	21	4.527	5.853	-0.574	1.00	0.00
ATOM	341	CA	TRP	21	4.606	7.496	-1.914	1.00	0.00
ATOM	342	HA	TRP	21	5.369	8.265	-1.796	1.00	0.00
ATOM	343	CB	TRP	21	5.093	6.480	-2.946	1.00	0.00
ATOM	344	HB2	TRP	21	5.595	6.993	-3.766	1.00	0.00
ATOM	345	HB3	TRP	21	5.796	5.807	-2.455	1.00	0.00
ATOM	346	CG	TRP	21	4.038	5.621	-3.562	1.00	0.00
ATOM	347	CD1	TRP	21	3.693	4.352	-3.254	1.00	0.00
ATOM	348	HD1	TRP	21	4.280	3.896	-2.457	1.00	0.00
ATOM	349	NE1	TRP	21	2.647	3.895	-4.034	1.00	0.00
ATOM	350	HE1	TRP	21	2.208	2.988	-3.957	1.00	0.00
ATOM	351	CE2	TRP	21	2.279	4.886	-4.909	1.00	0.00
ATOM	352	CZ2	TRP	21	1.292	4.961	-5.890	1.00	0.00
ATOM	353	HZ2	TRP	21	0.670	4.080	-6.052	1.00	0.00
ATOM	354	CH2	TRP	21	1.159	6.151	-6.603	1.00	0.00
ATOM	355	HH2	TRP	21	0.416	6.236	-7.396	1.00	0.00
ATOM	356	CZ3	TRP	21	1.975	7.255	-6.314	1.00	0.00

ATOM	357	HZ3 TRP	21	1.829	8.196	-6.844	1.00	0.00
ATOM	358	CE3 TRP	21	2.989	7.193	-5.353	1.00	0.00
ATOM	359	HE3 TRP	21	3.620	8.068	-5.201	1.00	0.00
ATOM	360	CD2 TRP	21	3.143	5.999	-4.620	1.00	0.00
ATOM	361	C TRP	21	3.331	8.190	-2.361	1.00	0.00
ATOM	362	O TRP	21	3.348	9.260	-2.958	1.00	0.00
ATOM	363	N ILE	22	2.180	7.590	-2.034	1.00	0.00
ATOM	364	H ILE	22	2.206	6.706	-1.546	1.00	0.00
ATOM	365	CA ILE	22	0.891	8.130	-2.405	1.00	0.00
ATOM	366	HA ILE	22	0.878	8.459	-3.444	1.00	0.00
ATOM	367	CB ILE	22	-0.204	7.078	-2.189	1.00	0.00
ATOM	368	HB ILE	22	-0.258	6.830	-1.129	1.00	0.00
ATOM	369	CG2 ILE	22	-1.558	7.622	-2.655	1.00	0.00
ATOM	370	HG21 ILE	22	-1.505	7.869	-3.715	1.00	0.00
ATOM	371	HG22 ILE	22	-2.328	6.866	-2.497	1.00	0.00
ATOM	372	HG23 ILE	22	-1.806	8.517	-2.085	1.00	0.00
ATOM	373	CG1 ILE	22	0.142	5.777	-2.920	1.00	0.00
ATOM	374	HG12 ILE	22	-0.123	5.889	-3.972	1.00	0.00
ATOM	375	HG13 ILE	22	1.215	5.605	-2.832	1.00	0.00
ATOM	376	CD1 ILE	22	-0.613	4.590	-2.330	1.00	0.00
ATOM	377	HD11 ILE	22	-1.686	4.761	-2.418	1.00	0.00
ATOM	378	HD12 ILE	22	-0.345	3.682	-2.872	1.00	0.00

ATOM	379	HD13	ILE	22	-0.349	4.476	-1.279	1.00	0.00
ATOM	380	C	ILE	22	0.644	9.381	-1.586	1.00	0.00
ATOM	381	O	ILE	22	0.006	10.319	-2.040	1.00	0.00
ATOM	382	N	ARG	23	1.166	9.419	-0.354	1.00	0.00
ATOM	383	H	ARG	23	1.625	8.595	0.009	1.00	0.00
ATOM	384	CA	ARG	23	1.066	10.580	0.500	1.00	0.00
ATOM	385	HA	ARG	23	0.028	10.910	0.544	1.00	0.00
ATOM	386	CB	ARG	23	1.536	10.265	1.913	1.00	0.00
ATOM	387	HB2	ARG	23	2.313	9.502	1.864	1.00	0.00
ATOM	388	HB3	ARG	23	1.945	11.171	2.358	1.00	0.00
ATOM	389	CG	ARG	23	0.379	9.757	2.767	1.00	0.00
ATOM	390	HG2	ARG	23	0.531	10.082	3.796	1.00	0.00
ATOM	391	HG3	ARG	23	-0.551	10.179	2.387	1.00	0.00
ATOM	392	CD	ARG	23	0.302	8.236	2.722	1.00	0.00
ATOM	393	HD2	ARG	23	-0.620	7.921	2.233	1.00	0.00
ATOM	394	HD3	ARG	23	1.156	7.833	2.178	1.00	0.00
ATOM	395	NE	ARG	23	0.318	7.691	4.107	1.00	0.00
ATOM	396	HE	ARG	23	-0.466	7.101	4.348	1.00	0.00
ATOM	397	CZ	ARG	23	1.276	7.845	4.985	1.00	0.00
ATOM	398	NH1	ARG	23	2.303	8.598	4.683	1.00	0.00
ATOM	399	HH11	ARG	23	2.346	9.050	3.781	1.00	0.00
ATOM	400	HH12	ARG	23	3.048	8.723	5.353	1.00	0.00



ATOM	401	NH2	ARG	23	1.175	7.325	6.182	1.00	0.00
ATOM	402	HH21	ARG	23	0.350	6.799	6.433	1.00	0.00
ATOM	403	HH22	ARG	23	1.922	7.452	6.849	1.00	0.00
ATOM	404	C	ARG	23	1.881	11.750	-0.046	1.00	0.00
ATOM	405	O	ARG	23	1.667	12.897	0.347	1.00	0.00
ATOM	406	N	GLN	24	2.816	11.459	-0.944	1.00	0.00
ATOM	407	H	GLN	24	3.003	10.493	-1.173	1.00	0.00
ATOM	408	CA	GLN	24	3.622	12.476	-1.566	1.00	0.00
ATOM	409	HA	GLN	24	3.839	13.269	-0.850	1.00	0.00
ATOM	410	CB	GLN	24	4.942	11.879	-2.047	1.00	0.00
ATOM	411	HB2	GLN	24	4.816	10.805	-2.184	1.00	0.00
ATOM	412	HB3	GLN	24	5.212	12.337	-2.999	1.00	0.00
ATOM	413	CG	GLN	24	6.051	12.135	-1.026	1.00	0.00
ATOM	414	HG2	GLN	24	6.768	12.840	-1.446	1.00	0.00
ATOM	415	HG3	GLN	24	5.606	12.562	-0.128	1.00	0.00
ATOM	416	CD	GLN	24	6.785	10.866	-0.646	1.00	0.00
ATOM	417	OE1	GLN	24	6.810	9.897	-1.377	1.00	0.00
ATOM	418	NE2	GLN	24	7.401	10.868	0.515	1.00	0.00
ATOM	419	HE21	GLN	24	7.906	10.047	0.817	1.00	0.00
ATOM	420	HE22	GLN	24	7.367	11.690	1.100	1.00	0.00
ATOM	421	C	GLN	24	2.886	13.134	-2.720	1.00	0.00
ATOM	422	O	GLN	24	3.315	14.163	-3.229	1.00	0.00

ATOM	423	N	GLN	25	1.774	12.516	-3.146	1.00	0.00
ATOM	424	H	GLN	25	1.515	11.622	-2.754	1.00	0.00
ATOM	425	CA	GLN	25	0.964	13.057	-4.210	1.00	0.00
ATOM	426	HA	GLN	25	1.601	13.385	-5.031	1.00	0.00
ATOM	427	CB	GLN	25	-0.003	11.992	-4.736	1.00	0.00
ATOM	428	HB2	GLN	25	0.090	11.094	-4.126	1.00	0.00
ATOM	429	HB3	GLN	25	-1.022	12.372	-4.669	1.00	0.00
ATOM	430	CG	GLN	25	0.319	11.654	-6.191	1.00	0.00
ATOM	431	HG2	GLN	25	1.400	11.519	-6.213	1.00	0.00
ATOM	432	HG3	GLN	25	-0.167	10.739	-6.531	1.00	0.00
ATOM	433	CD	GLN	25	-0.049	12.781	-7.140	1.00	0.00
ATOM	434	OE1	GLN	25	-0.541	13.823	-6.787	1.00	0.00
ATOM	435	NE2	GLN	25	0.101	12.535	-8.424	1.00	0.00
ATOM	436	HE21	GLN	25	-0.128	13.248	-9.102	1.00	0.00
ATOM	437	HE22	GLN	25	0.445	11.634	-8.726	1.00	0.00
ATOM	438	C	GLN	25	0.212	14.299	-3.736	1.00	0.00
ATOM	439	O	GLN	25	-0.401	15.030	-4.502	1.00	0.00
ATOM	440	N	LEU	26	0.223	14.549	-2.430	1.00	0.00
ATOM	441	H	LEU	26	0.646	13.873	-1.810	1.00	0.00
ATOM	442	CA	LEU	26	-0.452	15.677	-1.850	1.00	0.00
ATOM	443	HA	LEU	26	-0.970	16.236	-2.629	1.00	0.00
ATOM	444	CB	LEU	26	-1.483	15.215	-0.809	1.00	0.00

ATOM	445	HB2 LEU	26	-0.968	15.315	0.146	1.00	0.00
ATOM	446	HB3 LEU	26	-2.333	15.896	-0.837	1.00	0.00
ATOM	447	CG LEU	26	-1.979	13.771	-0.973	1.00	0.00
ATOM	448	HG LEU	26	-1.864	13.471	-2.015	1.00	0.00
ATOM	449	CD1 LEU	26	-1.179	12.833	-0.086	1.00	0.00
ATOM	450	HD11 LEU	26	-1.294	13.131	0.956	1.00	0.00
ATOM	451	HD12 LEU	26	-1.543	11.813	-0.214	1.00	0.00
ATOM	452	HD13 LEU	26	-0.126	12.880	-0.363	1.00	0.00
ATOM	453	CD2 LEU	26	-3.469	13.670	-0.651	1.00	0.00
ATOM	454	HD21 LEU	26	-4.032	14.313	-1.327	1.00	0.00
ATOM	455	HD22 LEU	26	-3.799	12.638	-0.774	1.00	0.00
ATOM	456	HD23 LEU	26	-3.641	13.986	0.378	1.00	0.00
ATOM	457	C LEU	26	0.581	16.647	-1.303	1.00	0.00
ATOM	458	O LEU	26	1.775	16.523	-1.546	1.00	0.00
ATOM	459	N ALA	27	0.108	17.612	-0.517	1.00	0.00
ATOM	460	H ALA	27	-0.890	17.711	-0.394	1.00	0.00
ATOM	461	CA ALA	27	0.979	18.588	0.110	1.00	0.00
ATOM	462	HA ALA	27	1.875	18.739	-0.492	1.00	0.00
ATOM	463	CB ALA	27	0.232	19.912	0.212	1.00	0.00
ATOM	464	HB1 ALA	27	-0.663	19.779	0.819	1.00	0.00
ATOM	465	HB2 ALA	27	0.877	20.659	0.675	1.00	0.00
ATOM	466	HB3 ALA	27	-0.053	20.247	-0.786	1.00	0.00

ATOM	467	C	ALA	27	1.455	18.074	1.466	1.00	0.00
ATOM	468	O	ALA	27	1.894	18.841	2.318	1.00	0.00
ATOM	469	N	GLY	28	1.311	16.761	1.699	1.00	0.00
ATOM	470	H	GLY	28	0.884	16.184	0.988	1.00	0.00
ATOM	471	CA	GLY	28	1.740	16.131	2.926	1.00	0.00
ATOM	472	HA2	GLY	28	1.532	16.802	3.759	1.00	0.00
ATOM	473	HA3	GLY	28	1.184	15.203	3.060	1.00	0.00
ATOM	474	C	GLY	28	3.228	15.818	2.902	1.00	0.00
ATOM	475	O	GLY	28	3.706	15.054	3.735	1.00	0.00
ATOM	476	N	SER	29	3.948	16.363	1.921	1.00	0.00
ATOM	477	H	SER	29	3.474	16.906	1.214	1.00	0.00
ATOM	478	CA	SER	29	5.370	16.163	1.790	1.00	0.00
ATOM	479	HA	SER	29	5.822	16.027	2.772	1.00	0.00
ATOM	480	CB	SER	29	5.643	14.917	0.951	1.00	0.00
ATOM	481	HB2	SER	29	5.393	14.050	1.563	1.00	0.00
ATOM	482	HB3	SER	29	4.980	14.954	0.087	1.00	0.00
ATOM	483	OG	SER	29	6.983	14.813	0.512	1.00	0.00
ATOM	484	HG	SER	29	7.088	14.012	-0.008	1.00	0.00
ATOM	485	C	SER	29	6.042	17.370	1.179	1.00	0.00
ATOM	486	O	SER	29	5.396	18.100	0.456	1.00	0.00
ATOM	487	N	PRO	30	7.301	17.614	1.545	1.00	0.00
ATOM	488	CD	PRO	30	8.084	16.803	2.461	1.00	0.00

ATOM	489	HD2 PRO	30	8.254	15.834	1.991	1.00	0.00
ATOM	490	HD3 PRO	30	7.501	16.667	3.372	1.00	0.00
ATOM	491	CG PRO	30	9.379	17.569	2.708	1.00	0.00
ATOM	492	HG2 PRO	30	10.218	16.977	2.341	1.00	0.00
ATOM	493	HG3 PRO	30	9.494	17.737	3.779	1.00	0.00
ATOM	494	CB PRO	30	9.260	18.897	1.956	1.00	0.00
ATOM	495	HB2 PRO	30	10.162	19.115	1.384	1.00	0.00
ATOM	496	HB3 PRO	30	9.059	19.718	2.644	1.00	0.00
ATOM	497	CA PRO	30	8.078	18.710	1.010	1.00	0.00
ATOM	498	HA PRO	30	7.467	19.611	1.059	1.00	0.00
ATOM	499	C PRO	30	8.506	18.470	-0.417	1.00	0.00
ATOM	500	O PRO	30	8.180	17.439	-0.994	1.00	0.00
ATOM	501	N PHE	31	9.275	19.414	-0.971	1.00	0.00
ATOM	502	H PHE	31	9.546	20.221	-0.428	1.00	0.00
ATOM	503	CA PHE	31	9.746	19.316	-2.334	1.00	0.00
ATOM	504	HA PHE	31	10.001	18.287	-2.588	1.00	0.00
ATOM	505	CB PHE	31	8.616	19.782	-3.257	1.00	0.00
ATOM	506	HB2 PHE	31	8.548	20.868	-3.315	1.00	0.00
ATOM	507	HB3 PHE	31	8.842	19.380	-4.245	1.00	0.00
ATOM	508	CG PHE	31	7.233	19.280	-2.891	1.00	0.00
ATOM	509	CD1 PHE	31	6.826	17.991	-3.270	1.00	0.00
ATOM	510	HD1 PHE	31	7.488	17.373	-3.878	1.00	0.00

ATOM	511	CE1	PHE	31	5.575	17.496	-2.871	1.00	0.00
ATOM	512	HE1	PHE	31	5.283	16.478	-3.130	1.00	0.00
ATOM	513	CZ	PHE	31	4.702	18.310	-2.140	1.00	0.00
ATOM	514	HZ	PHE	31	3.710	17.947	-1.869	1.00	0.00
ATOM	515	CE2	PHE	31	5.108	19.599	-1.755	1.00	0.00
ATOM	516	HE2	PHE	31	4.427	20.232	-1.186	1.00	0.00
ATOM	517	CD2	PHE	31	6.382	20.072	-2.100	1.00	0.00
ATOM	518	HD2	PHE	31	6.711	21.052	-1.755	1.00	0.00
ATOM	519	C	PHE	31	10.964	20.196	-2.554	1.00	0.00
ATOM	520	O	PHE	31	11.098	21.240	-1.912	1.00	0.00
ATOM	521	N	SER	32	11.844	19.769	-3.457	1.00	0.00
ATOM	522	H	SER	32	11.704	18.879	-3.915	1.00	0.00
ATOM	523	CA	SER	32	13.042	20.524	-3.773	1.00	0.00
ATOM	524	HA	SER	32	12.943	21.545	-3.406	1.00	0.00
ATOM	525	CB	SER	32	14.271	19.881	-3.112	1.00	0.00
ATOM	526	HB2	SER	32	13.958	18.950	-2.639	1.00	0.00
ATOM	527	HB3	SER	32	15.004	19.664	-3.889	1.00	0.00
ATOM	528	OG	SER	32	14.851	20.731	-2.142	1.00	0.00
ATOM	529	HG	SER	32	15.613	20.297	-1.752	1.00	0.00
ATOM	530	C	SER	32	13.223	20.604	-5.281	1.00	0.00
ATOM	531	O	SER	32	12.864	21.601	-5.907	1.00	0.00
ATOM	532	N	GLU	33	13.776	19.536	-5.865	1.00	0.00

ATOM	533	H	GLU	33	14.104	18.770	-5.295	1.00	0.00
ATOM	534	CA	GLU	33	14.009	19.478	-7.287	1.00	0.00
ATOM	535	HA	GLU	33	14.204	20.480	-7.669	1.00	0.00
ATOM	536	CB	GLU	33	15.219	18.589	-7.601	1.00	0.00
ATOM	537	HB2	GLU	33	15.490	18.042	-6.698	1.00	0.00
ATOM	538	HB3	GLU	33	14.936	17.883	-8.382	1.00	0.00
ATOM	539	CG	GLU	33	16.411	19.416	-8.071	1.00	0.00
ATOM	540	HG2	GLU	33	16.530	19.276	-9.146	1.00	0.00
ATOM	541	HG3	GLU	33	16.217	20.467	-7.861	1.00	0.00
ATOM	542	CD	GLU	33	17.689	18.982	-7.357	1.00	0.00
ATOM	543	OE1	GLU	33	18.070	17.802	-7.534	1.00	0.00
ATOM	544	OE2	GLU	33	18.260	19.835	-6.645	1.00	0.00
ATOM	545	C	GLU	33	12.753	19.007	-8.010	1.00	0.00
ATOM	546	O	GLU	33	11.670	18.913	-7.425	1.00	0.00
ATOM	547	N	ASN	34	12.905	18.682	-9.299	1.00	0.00
ATOM	548	H	ASN	34	13.803	18.807	-9.743	1.00	0.00
ATOM	549	CA	ASN	34	11.822	18.163	-10.087	1.00	0.00
ATOM	550	HA	ASN	34	10.872	18.556	-9.725	1.00	0.00
ATOM	551	CB	ASN	34	11.998	18.578	-11.546	1.00	0.00
ATOM	552	HB2	ASN	34	13.065	18.604	-11.769	1.00	0.00
ATOM	553	HB3	ASN	34	11.507	17.861	-12.204	1.00	0.00
ATOM	554	CG	ASN	34	11.416	19.950	-11.806	1.00	0.00

ATOM	555	OD1	ASN	34	10.348	20.305	-11.336	1.00	0.00
ATOM	556	ND2	ASN	34	12.132	20.726	-12.596	1.00	0.00
ATOM	557	HD21	ASN	34	11.806	21.656	-12.815	1.00	0.00
ATOM	558	HD22	ASN	34	13.003	20.386	-12.979	1.00	0.00
ATOM	559	C	ASN	34	11.779	16.653	-10.006	1.00	0.00
ATOM	560	O	ASN	34	12.825	16.007	-9.949	1.00	0.00
ATOM	561	N	GLN	35	10.579	16.089	-10.098	1.00	0.00
ATOM	562	H	GLN	35	9.761	16.680	-10.140	1.00	0.00
ATOM	563	CA	GLN	35	10.389	14.661	-10.080	1.00	0.00
ATOM	564	HA	GLN	35	10.891	14.215	-10.939	1.00	0.00
ATOM	565	CB	GLN	35	10.967	14.049	-8.804	1.00	0.00
ATOM	566	HB2	GLN	35	11.747	14.710	-8.428	1.00	0.00
ATOM	567	HB3	GLN	35	10.168	13.974	-8.066	1.00	0.00
ATOM	568	CG	GLN	35	11.554	12.665	-9.060	1.00	0.00
ATOM	569	HG2	GLN	35	11.789	12.182	-8.111	1.00	0.00
ATOM	570	HG3	GLN	35	10.816	12.069	-9.597	1.00	0.00
ATOM	571	CD	GLN	35	12.822	12.737	-9.896	1.00	0.00
ATOM	572	OE1	GLN	35	13.864	13.197	-9.473	1.00	0.00
ATOM	573	NE2	GLN	35	12.716	12.246	-11.120	1.00	0.00
ATOM	574	HE21	GLN	35	13.516	12.258	-11.737	1.00	0.00
ATOM	575	HE22	GLN	35	11.836	11.861	-11.432	1.00	0.00
ATOM	576	C	GLN	35	8.922	14.341	-10.213	1.00	0.00



ATOM	577	O	GLN	35	8.078	15.194	-9.934	1.00	0.00
ATOM	578	N	TRP	36	8.626	13.084	-10.592	1.00	0.00
ATOM	579	H	TRP	36	9.368	12.443	-10.835	1.00	0.00
ATOM	580	CA	TRP	36	7.251	12.629	-10.726	1.00	0.00
ATOM	581	HA	TRP	36	6.795	13.087	-11.604	1.00	0.00
ATOM	582	CB	TRP	36	7.200	11.106	-10.887	1.00	0.00
ATOM	583	HB2	TRP	36	7.484	10.821	-11.900	1.00	0.00
ATOM	584	HB3	TRP	36	7.891	10.654	-10.176	1.00	0.00
ATOM	585	CG	TRP	36	5.853	10.490	-10.628	1.00	0.00
ATOM	586	CD1	TRP	36	5.171	10.410	-9.452	1.00	0.00
ATOM	587	HD1	TRP	36	5.678	10.839	-8.588	1.00	0.00
ATOM	588	NE1	TRP	36	3.947	9.783	-9.613	1.00	0.00
ATOM	589	HE1	TRP	36	3.280	9.598	-8.878	1.00	0.00
ATOM	590	CE2	TRP	36	3.796	9.433	-10.934	1.00	0.00
ATOM	591	CZ2	TRP	36	2.768	8.778	-11.613	1.00	0.00
ATOM	592	HZ2	TRP	36	1.888	8.475	-11.046	1.00	0.00
ATOM	593	CH2	TRP	36	2.932	8.550	-12.988	1.00	0.00
ATOM	594	HH2	TRP	36	2.153	8.042	-13.557	1.00	0.00
ATOM	595	CZ3	TRP	36	4.098	8.971	-13.653	1.00	0.00
ATOM	596	HZ3	TRP	36	4.214	8.788	-14.722	1.00	0.00
ATOM	597	CE3	TRP	36	5.137	9.629	-12.982	1.00	0.00
ATOM	598	HE3	TRP	36	6.021	9.922	-13.548	1.00	0.00

ATOM	599	CD2 TRP	36	4.996	9.869	-11.601	1.00	0.00
ATOM	600	C TRP	36	6.448	13.091	-9.502	1.00	0.00
ATOM	601	O TRP	36	5.253	13.340	-9.594	1.00	0.00
ATOM	602	N GLY	37	7.126	13.189	-8.346	1.00	0.00
ATOM	603	H GLY	37	8.090	12.889	-8.311	1.00	0.00
ATOM	604	CA GLY	37	6.530	13.707	-7.146	1.00	0.00
ATOM	605	HA2 GLY	37	6.086	14.679	-7.358	1.00	0.00
ATOM	606	HA3 GLY	37	5.754	13.020	-6.807	1.00	0.00
ATOM	607	C GLY	37	7.563	13.865	-6.048	1.00	0.00
ATOM	608	O GLY	37	8.105	14.950	-5.852	1.00	0.00
ATOM	609	N PRO	38	7.862	12.756	-5.354	1.00	0.00
ATOM	610	CD PRO	38	7.276	11.435	-5.548	1.00	0.00
ATOM	611	HD2 PRO	38	7.618	11.055	-6.511	1.00	0.00
ATOM	612	HD3 PRO	38	6.192	11.549	-5.567	1.00	0.00
ATOM	613	CG PRO	38	7.751	10.577	-4.377	1.00	0.00
ATOM	614	HG2 PRO	38	8.361	9.758	-4.758	1.00	0.00
ATOM	615	HG3 PRO	38	6.884	10.171	-3.855	1.00	0.00
ATOM	616	CB PRO	38	8.558	11.495	-3.462	1.00	0.00
ATOM	617	HB2 PRO	38	9.499	11.027	-3.172	1.00	0.00
ATOM	618	HB3 PRO	38	7.991	11.754	-2.568	1.00	0.00
ATOM	619	CA PRO	38	8.834	12.744	-4.282	1.00	0.00
ATOM	620	HA PRO	38	8.643	13.597	-3.631	1.00	0.00

ATOM	621	C	PRO	38	10.242	12.826	-4.817	1.00	0.00
ATOM	622	O	PRO	38	10.955	11.838	-4.865	1.00	0.00
ATOM	623	N	GLN	39	10.667	14.015	-5.234	1.00	0.00
ATOM	624	H	GLN	39	10.038	14.804	-5.218	1.00	0.00
ATOM	625	CA	GLN	39	11.994	14.208	-5.771	1.00	0.00
ATOM	626	HA	GLN	39	12.151	13.547	-6.624	1.00	0.00
ATOM	627	CB	GLN	39	12.168	15.659	-6.237	1.00	0.00
ATOM	628	HB2	GLN	39	11.347	15.924	-6.904	1.00	0.00
ATOM	629	HB3	GLN	39	12.160	16.319	-5.370	1.00	0.00
ATOM	630	CG	GLN	39	13.499	15.810	-6.981	1.00	0.00
ATOM	631	HG2	GLN	39	13.630	14.980	-7.676	1.00	0.00
ATOM	632	HG3	GLN	39	13.461	16.747	-7.537	1.00	0.00
ATOM	633	CD	GLN	39	14.690	15.850	-6.044	1.00	0.00
ATOM	634	OE1	GLN	39	14.580	16.233	-4.882	1.00	0.00
ATOM	635	NE2	GLN	39	15.828	15.424	-6.547	1.00	0.00
ATOM	636	HE21	GLN	39	16.661	15.424	-5.976	1.00	0.00
ATOM	637	HE22	GLN	39	15.864	15.098	-7.503	1.00	0.00
ATOM	638	C	GLN	39	13.042	13.842	-4.733	1.00	0.00
ATOM	639	O	GLN	39	14.104	13.325	-5.074	1.00	0.00
ATOM	640	N	GLN	40	12.721	14.090	-3.459	1.00	0.00
ATOM	641	H	GLN	40	11.853	14.556	-3.237	1.00	0.00
ATOM	642	CA	GLN	40	13.618	13.767	-2.380	1.00	0.00

ATOM	643	HA	GLN	40	14.653	13.864	-2.709	1.00	0.00
ATOM	644	CB	GLN	40	13.384	14.725	-1.213	1.00	0.00
ATOM	645	HB2	GLN	40	13.164	15.718	-1.605	1.00	0.00
ATOM	646	HB3	GLN	40	12.537	14.371	-0.626	1.00	0.00
ATOM	647	CG	GLN	40	14.631	14.792	-0.322	1.00	0.00
ATOM	648	HG2	GLN	40	15.458	14.374	-0.897	1.00	0.00
ATOM	649	HG3	GLN	40	14.862	15.822	-0.050	1.00	0.00
ATOM	650	CD	GLN	40	14.465	13.976	0.956	1.00	0.00
ATOM	651	OE1	GLN	40	13.389	13.530	1.335	1.00	0.00
ATOM	652	NE2	GLN	40	15.563	13.815	1.674	1.00	0.00
ATOM	653	HE21	GLN	40	15.528	13.285	2.533	1.00	0.00
ATOM	654	HE22	GLN	40	16.432	14.222	1.360	1.00	0.00
ATOM	655	C	GLN	40	13.445	12.315	-1.941	1.00	0.00
ATOM	656	O	GLN	40	14.168	11.822	-1.085	1.00	0.00
ATOM	657	N	GLY	41	12.464	11.622	-2.520	1.00	0.00
ATOM	658	H	GLY	41	11.873	12.095	-3.188	1.00	0.00
ATOM	659	CA	GLY	41	12.203	10.230	-2.241	1.00	0.00
ATOM	660	HA2	GLY	41	13.135	9.744	-1.953	1.00	0.00
ATOM	661	HA3	GLY	41	11.488	10.159	-1.422	1.00	0.00
ATOM	662	C	GLY	41	11.634	9.524	-3.454	1.00	0.00
ATOM	663	O	GLY	41	10.510	9.065	-3.449	1.00	0.00
ATOM	664	N	PRO	42	12.387	9.454	-4.551	1.00	0.00

ATOM	665	CD	PRO	42	13.728	9.983	-4.689	1.00	0.00
ATOM	666	HD2	PRO	42	14.386	9.406	-4.039	1.00	0.00
ATOM	667	HD3	PRO	42	13.715	11.022	-4.362	1.00	0.00
ATOM	668	CG	PRO	42	14.091	9.842	-6.164	1.00	0.00
ATOM	669	HG2	PRO	42	14.941	9.165	-6.258	1.00	0.00
ATOM	670	HG3	PRO	42	14.362	10.821	-6.558	1.00	0.00
ATOM	671	CB	PRO	42	12.854	9.288	-6.878	1.00	0.00
ATOM	672	HB2	PRO	42	13.123	8.458	-7.531	1.00	0.00
ATOM	673	HB3	PRO	42	12.349	10.059	-7.460	1.00	0.00
ATOM	674	CA	PRO	42	11.937	8.794	-5.763	1.00	0.00
ATOM	675	HA	PRO	42	10.924	9.132	-5.981	1.00	0.00
ATOM	676	C	PRO	42	11.946	7.288	-5.622	1.00	0.00
ATOM	677	O	PRO	42	11.107	6.597	-6.213	1.00	0.00
ATOM	678	N	SER	43	12.881	6.790	-4.820	1.00	0.00
ATOM	679	H	SER	43	13.543	7.421	-4.393	1.00	0.00
ATOM	680	CA	SER	43	13.029	5.375	-4.576	1.00	0.00
ATOM	681	HA	SER	43	12.926	4.832	-5.516	1.00	0.00
ATOM	682	CB	SER	43	14.401	5.056	-3.975	1.00	0.00
ATOM	683	HB2	SER	43	14.299	5.003	-2.891	1.00	0.00
ATOM	684	HB3	SER	43	14.728	4.088	-4.356	1.00	0.00
ATOM	685	OG	SER	43	15.362	6.047	-4.313	1.00	0.00
ATOM	686	HG	SER	43	16.208	5.818	-3.922	1.00	0.00

ATOM	687	C	SER	43	11.913	4.895	-3.655	1.00	0.00
ATOM	688	O	SER	43	12.122	4.584	-2.489	1.00	0.00
ATOM	689	N	LEU	44	10.686	4.850	-4.172	1.00	0.00
ATOM	690	H	LEU	44	10.543	5.158	-5.123	1.00	0.00
ATOM	691	CA	LEU	44	9.541	4.427	-3.414	1.00	0.00
ATOM	692	HA	LEU	44	9.865	3.963	-2.482	1.00	0.00
ATOM	693	CB	LEU	44	8.651	5.624	-3.081	1.00	0.00
ATOM	694	HB2	LEU	44	8.869	6.370	-3.845	1.00	0.00
ATOM	695	HB3	LEU	44	7.607	5.320	-3.158	1.00	0.00
ATOM	696	CG	LEU	44	8.909	6.226	-1.689	1.00	0.00
ATOM	697	HG	LEU	44	9.900	5.921	-1.354	1.00	0.00
ATOM	698	CD1	LEU	44	8.833	7.734	-1.729	1.00	0.00
ATOM	699	HD11	LEU	44	7.842	8.039	-2.064	1.00	0.00
ATOM	700	HD12	LEU	44	9.019	8.134	-0.733	1.00	0.00
ATOM	701	HD13	LEU	44	9.583	8.118	-2.420	1.00	0.00
ATOM	702	CD2	LEU	44	7.922	5.698	-0.670	1.00	0.00
ATOM	703	HD21	LEU	44	8.015	4.614	-0.601	1.00	0.00
ATOM	704	HD22	LEU	44	8.131	6.142	0.303	1.00	0.00
ATOM	705	HD23	LEU	44	6.909	5.956	-0.977	1.00	0.00
ATOM	706	C	LEU	44	8.813	3.400	-4.220	1.00	0.00
ATOM	707	O	LEU	44	8.399	2.432	-3.654	1.00	0.00
ATOM	708	N	ARG	45	8.649	3.572	-5.527	1.00	0.00

ATOM	709	H	ARG	45	9.018	4.413	-5.946	1.00	0.00
ATOM	710	CA	ARG	45	7.975	2.621	-6.380	1.00	0.00
ATOM	711	HA	ARG	45	6.962	2.452	-6.014	1.00	0.00
ATOM	712	CB	ARG	45	7.895	3.142	-7.811	1.00	0.00
ATOM	713	HB2	ARG	45	8.897	3.423	-8.136	1.00	0.00
ATOM	714	HB3	ARG	45	7.517	2.344	-8.451	1.00	0.00
ATOM	715	CG	ARG	45	6.972	4.351	-7.907	1.00	0.00
ATOM	716	HG2	ARG	45	7.481	5.209	-7.468	1.00	0.00
ATOM	717	HG3	ARG	45	6.771	4.548	-8.960	1.00	0.00
ATOM	718	CD	ARG	45	5.644	4.110	-7.168	1.00	0.00
ATOM	719	HD2	ARG	45	5.412	3.045	-7.169	1.00	0.00
ATOM	720	HD3	ARG	45	5.727	4.462	-6.140	1.00	0.00
ATOM	721	NE	ARG	45	4.545	4.832	-7.826	1.00	0.00
ATOM	722	HE	ARG	45	3.806	4.269	-8.223	1.00	0.00
ATOM	723	CZ	ARG	45	4.443	6.146	-7.898	1.00	0.00
ATOM	724	NH1	ARG	45	5.348	6.920	-7.336	1.00	0.00
ATOM	725	HH11	ARG	45	6.128	6.506	-6.845	1.00	0.00
ATOM	726	HH12	ARG	45	5.258	7.924	-7.399	1.00	0.00
ATOM	727	NH2	ARG	45	3.455	6.693	-8.567	1.00	0.00
ATOM	728	HH21	ARG	45	2.774	6.105	-9.026	1.00	0.00
ATOM	729	HH22	ARG	45	3.381	7.699	-8.620	1.00	0.00
ATOM	730	C	ARG	45	8.708	1.322	-6.399	1.00	0.00

ATOM	731	O	ARG	45	8.231	0.372	-5.852	1.00	0.00
ATOM	732	N	GLU	46	9.909	1.285	-6.939	1.00	0.00
ATOM	733	H	GLU	46	10.287	2.125	-7.352	1.00	0.00
ATOM	734	CA	GLU	46	10.704	0.069	-7.000	1.00	0.00
ATOM	735	HA	GLU	46	10.190	-0.681	-7.601	1.00	0.00
ATOM	736	CB	GLU	46	12.068	0.358	-7.638	1.00	0.00
ATOM	737	HB2	GLU	46	12.534	1.190	-7.111	1.00	0.00
ATOM	738	HB3	GLU	46	12.696	-0.528	-7.543	1.00	0.00
ATOM	739	CG	GLU	46	11.910	0.716	-9.121	1.00	0.00
ATOM	740	HG2	GLU	46	11.672	-0.201	-9.661	1.00	0.00
ATOM	741	HG3	GLU	46	11.096	1.430	-9.244	1.00	0.00
ATOM	742	CD	GLU	46	13.201	1.314	-9.677	1.00	0.00
ATOM	743	OE1	GLU	46	13.703	2.274	-9.047	1.00	0.00
ATOM	744	OE2	GLU	46	13.653	0.823	-10.731	1.00	0.00
ATOM	745	C	GLU	46	10.897	-0.518	-5.602	1.00	0.00
ATOM	746	O	GLU	46	11.176	-1.705	-5.461	1.00	0.00
ATOM	747	N	GLN	47	10.712	0.318	-4.568	1.00	0.00
ATOM	748	H	GLN	47	10.533	1.294	-4.753	1.00	0.00
ATOM	749	CA	GLN	47	10.811	-0.106	-3.208	1.00	0.00
ATOM	750	HA	GLN	47	11.577	-0.876	-3.114	1.00	0.00
ATOM	751	CB	GLN	47	11.189	1.068	-2.315	1.00	0.00
ATOM	752	HB2	GLN	47	11.142	1.988	-2.897	1.00	0.00



ATOM	753	HB3	GLN	47	10.484	1.126	-1.486	1.00	0.00
ATOM	754	CG	GLN	47	12.609	0.883	-1.766	1.00	0.00
ATOM	755	HG2	GLN	47	12.687	-0.099	-1.298	1.00	0.00
ATOM	756	HG3	GLN	47	13.339	0.959	-2.572	1.00	0.00
ATOM	757	CD	GLN	47	12.924	1.945	-0.723	1.00	0.00
ATOM	758	OE1	GLN	47	13.883	2.694	-0.824	1.00	0.00
ATOM	759	NE2	GLN	47	12.098	1.996	0.311	1.00	0.00
ATOM	760	HE21	GLN	47	12.249	2.677	1.041	1.00	0.00
ATOM	761	HE22	GLN	47	11.321	1.353	0.365	1.00	0.00
ATOM	762	C	GLN	47	9.523	-0.719	-2.752	1.00	0.00
ATOM	763	O	GLN	47	9.573	-1.817	-2.286	1.00	0.00
ATOM	764	N	CYX	48	8.388	-0.063	-2.889	1.00	0.00
ATOM	765	H	CYX	48	8.477	0.865	-3.277	1.00	0.00
ATOM	766	CA	CYX	48	7.088	-0.517	-2.512	1.00	0.00
ATOM	767	HA	CYX	48	7.128	-0.878	-1.484	1.00	0.00
ATOM	768	CB	CYX	48	6.036	0.578	-2.602	1.00	0.00
ATOM	769	HB2	CYX	48	5.733	0.874	-1.598	1.00	0.00
ATOM	770	HB3	CYX	48	6.451	1.439	-3.125	1.00	0.00
ATOM	771	SG	CYX	48	4.501	0.148	-3.459	1.00	0.00
ATOM	772	C	CYX	48	6.712	-1.662	-3.394	1.00	0.00
ATOM	773	O	CYX	48	6.254	-2.667	-2.926	1.00	0.00
ATOM	774	N	CYX	49	6.941	-1.575	-4.696	1.00	0.00

ATOM	775	H	CYX	49	7.301	-0.693	-5.030	1.00	0.00
ATOM	776	CA	CYX	49	6.671	-2.610	-5.659	1.00	0.00
ATOM	777	HA	CYX	49	5.593	-2.749	-5.737	1.00	0.00
ATOM	778	CB	CYX	49	7.223	-2.266	-7.049	1.00	0.00
ATOM	779	HB2	CYX	49	8.304	-2.139	-6.990	1.00	0.00
ATOM	780	HB3	CYX	49	6.991	-3.074	-7.743	1.00	0.00
ATOM	781	SG	CYX	49	6.602	-0.735	-7.802	1.00	0.00
ATOM	782	C	CYX	49	7.277	-3.910	-5.140	1.00	0.00
ATOM	783	O	CYX	49	6.827	-4.984	-5.510	1.00	0.00
ATOM	784	N	ASN	50	8.309	-3.814	-4.289	1.00	0.00
ATOM	785	H	ASN	50	8.681	-2.898	-4.084	1.00	0.00
ATOM	786	CA	ASN	50	8.897	-4.943	-3.644	1.00	0.00
ATOM	787	HA	ASN	50	8.632	-5.862	-4.167	1.00	0.00
ATOM	788	CB	ASN	50	10.413	-4.794	-3.660	1.00	0.00
ATOM	789	HB2	ASN	50	10.695	-3.777	-3.933	1.00	0.00
ATOM	790	HB3	ASN	50	10.797	-5.023	-2.666	1.00	0.00
ATOM	791	CG	ASN	50	11.037	-5.750	-4.650	1.00	0.00
ATOM	792	OD1	ASN	50	11.605	-6.774	-4.302	1.00	0.00
ATOM	793	ND2	ASN	50	10.905	-5.414	-5.920	1.00	0.00
ATOM	794	HD21	ASN	50	11.297	-6.006	-6.639	1.00	0.00
ATOM	795	HD22	ASN	50	10.413	-4.568	-6.167	1.00	0.00
ATOM	796	C	ASN	50	8.456	-5.045	-2.215	1.00	0.00

ATOM	797	O	ASN	50	8.218	-6.124	-1.763	1.00	0.00
ATOM	798	N	GLU	51	8.343	-3.956	-1.486	1.00	0.00
ATOM	799	H	GLU	51	8.639	-3.100	-1.931	1.00	0.00
ATOM	800	CA	GLU	51	7.927	-3.901	-0.113	1.00	0.00
ATOM	801	HA	GLU	51	8.509	-4.618	0.466	1.00	0.00
ATOM	802	CB	GLU	51	8.131	-2.505	0.487	1.00	0.00
ATOM	803	HB2	GLU	51	8.704	-2.605	1.409	1.00	0.00
ATOM	804	HB3	GLU	51	8.692	-1.901	-0.226	1.00	0.00
ATOM	805	CG	GLU	51	6.796	-1.828	0.789	1.00	0.00
ATOM	806	HG2	GLU	51	6.253	-1.840	-0.157	1.00	0.00
ATOM	807	HG3	GLU	51	6.215	-2.353	1.547	1.00	0.00
ATOM	808	CD	GLU	51	7.013	-0.424	1.217	1.00	0.00
ATOM	809	OE1	GLU	51	7.278	-0.124	2.398	1.00	0.00
ATOM	810	OE2	GLU	51	6.819	0.416	0.346	1.00	0.00
ATOM	811	C	GLU	51	6.474	-4.359	0.006	1.00	0.00
ATOM	812	O	GLU	51	5.977	-4.586	1.099	1.00	0.00
ATOM	813	N	LEU	52	5.780	-4.484	-1.119	1.00	0.00
ATOM	814	H	LEU	52	6.215	-4.170	-1.975	1.00	0.00
ATOM	815	CA	LEU	52	4.412	-4.896	-1.165	1.00	0.00
ATOM	816	HA	LEU	52	3.988	-4.904	-0.161	1.00	0.00
ATOM	817	CB	LEU	52	3.604	-3.918	-2.031	1.00	0.00
ATOM	818	HB2	LEU	52	2.724	-3.748	-1.411	1.00	0.00

ATOM	819	HB3 LEU	52	4.150	-2.982	-2.150	1.00	0.00
ATOM	820	CG LEU	52	3.168	-4.433	-3.407	1.00	0.00
ATOM	821	HG LEU	52	2.801	-3.584	-3.984	1.00	0.00
ATOM	822	CD1 LEU	52	4.297	-5.100	-4.156	1.00	0.00
ATOM	823	HD11 LEU	52	4.664	-5.950	-3.580	1.00	0.00
ATOM	824	HD12 LEU	52	3.936	-5.447	-5.124	1.00	0.00
ATOM	825	HD13 LEU	52	5.107	-4.386	-4.305	1.00	0.00
ATOM	826	CD2 LEU	52	1.968	-5.346	-3.283	1.00	0.00
ATOM	827	HD21 LEU	52	1.139	-4.799	-2.834	1.00	0.00
ATOM	828	HD22 LEU	52	1.676	-5.700	-4.272	1.00	0.00
ATOM	829	HD23 LEU	52	2.223	-6.199	-2.654	1.00	0.00
ATOM	830	C LEU	52	4.361	-6.352	-1.597	1.00	0.00
ATOM	831	O LEU	52	3.367	-7.012	-1.351	1.00	0.00
ATOM	832	N TYR	53	5.420	-6.833	-2.259	1.00	0.00
ATOM	833	H TYR	53	6.237	-6.246	-2.340	1.00	0.00
ATOM	834	CA TYR	53	5.470	-8.146	-2.824	1.00	0.00
ATOM	835	HA TYR	53	4.465	-8.539	-2.977	1.00	0.00
ATOM	836	CB TYR	53	6.175	-8.067	-4.178	1.00	0.00
ATOM	837	HB2 TYR	53	5.700	-7.261	-4.737	1.00	0.00
ATOM	838	HB3 TYR	53	7.216	-7.810	-3.984	1.00	0.00
ATOM	839	CG TYR	53	6.113	-9.346	-4.988	1.00	0.00
ATOM	840	CD1 TYR	53	4.874	-9.889	-5.359	1.00	0.00

ATOM	841	HD1	TYR	53	3.961	-9.378	-5.054	1.00	0.00
ATOM	842	CE1	TYR	53	4.798	-11.071	-6.110	1.00	0.00
ATOM	843	HE1	TYR	53	3.834	-11.481	-6.412	1.00	0.00
ATOM	844	CZ	TYR	53	5.988	-11.722	-6.485	1.00	0.00
ATOM	845	OH	TYR	53	5.931	-12.878	-7.195	1.00	0.00
ATOM	846	HH	TYR	53	5.032	-13.158	-7.385	1.00	0.00
ATOM	847	CE2	TYR	53	7.240	-11.189	-6.117	1.00	0.00
ATOM	848	HE2	TYR	53	8.161	-11.695	-6.408	1.00	0.00
ATOM	849	CD2	TYR	53	7.297	-9.997	-5.369	1.00	0.00
ATOM	850	HD2	TYR	53	8.262	-9.578	-5.085	1.00	0.00
ATOM	851	C	TYR	53	6.268	-9.026	-1.915	1.00	0.00
ATOM	852	O	TYR	53	6.055	-10.218	-1.877	1.00	0.00
ATOM	853	N	GLN	54	7.224	-8.463	-1.188	1.00	0.00
ATOM	854	H	GLN	54	7.374	-7.473	-1.322	1.00	0.00
ATOM	855	CA	GLN	54	8.078	-9.163	-0.270	1.00	0.00
ATOM	856	HA	GLN	54	8.704	-9.865	-0.821	1.00	0.00
ATOM	857	CB	GLN	54	8.986	-8.193	0.496	1.00	0.00
ATOM	858	HB2	GLN	54	9.543	-8.761	1.241	1.00	0.00
ATOM	859	HB3	GLN	54	9.682	-7.743	-0.212	1.00	0.00
ATOM	860	CG	GLN	54	8.181	-7.093	1.190	1.00	0.00
ATOM	861	HG2	GLN	54	7.701	-6.444	0.457	1.00	0.00
ATOM	862	HG3	GLN	54	7.418	-7.581	1.797	1.00	0.00

ATOM	863	CD	GLN	54	9.048	-6.244	2.094	1.00	0.00
ATOM	864	OE1	GLN	54	10.214	-5.975	1.820	1.00	0.00
ATOM	865	NE2	GLN	54	8.463	-5.774	3.173	1.00	0.00
ATOM	866	HE21	GLN	54	8.987	-5.200	3.818	1.00	0.00
ATOM	867	HE22	GLN	54	7.492	-5.989	3.352	1.00	0.00
ATOM	868	C	GLN	54	7.228	-9.968	0.701	1.00	0.00
ATOM	869	O	GLN	54	7.675	-10.994	1.198	1.00	0.00
ATOM	870	N	GLU	55	5.993	-9.510	0.936	1.00	0.00
ATOM	871	H	GLU	55	5.722	-8.614	0.556	1.00	0.00
ATOM	872	CA	GLU	55	5.065	-10.196	1.789	1.00	0.00
ATOM	873	HA	GLU	55	5.603	-10.712	2.584	1.00	0.00
ATOM	874	CB	GLU	55	4.101	-9.208	2.418	1.00	0.00
ATOM	875	HB2	GLU	55	3.403	-8.873	1.650	1.00	0.00
ATOM	876	HB3	GLU	55	3.552	-9.720	3.208	1.00	0.00
ATOM	877	CG	GLU	55	4.828	-8.006	3.002	1.00	0.00
ATOM	878	HG2	GLU	55	5.759	-8.401	3.407	1.00	0.00
ATOM	879	HG3	GLU	55	5.052	-7.257	2.243	1.00	0.00
ATOM	880	CD	GLU	55	4.024	-7.373	4.113	1.00	0.00
ATOM	881	OE1	GLU	55	3.084	-7.996	4.640	1.00	0.00
ATOM	882	OE2	GLU	55	4.338	-6.208	4.359	1.00	0.00
ATOM	883	C	GLU	55	4.338	-11.291	1.040	1.00	0.00
ATOM	884	O	GLU	55	3.302	-11.751	1.478	1.00	0.00

ATOM	885	N	ASP	56	4.871	-11.739	-0.086	1.00	0.00
ATOM	886	H	ASP	56	5.760	-11.342	-0.354	1.00	0.00
ATOM	887	CA	ASP	56	4.284	-12.729	-0.941	1.00	0.00
ATOM	888	HA	ASP	56	5.035	-13.148	-1.611	1.00	0.00
ATOM	889	CB	ASP	56	3.709	-13.861	-0.082	1.00	0.00
ATOM	890	HB2	ASP	56	4.399	-13.893	0.761	1.00	0.00
ATOM	891	HB3	ASP	56	2.711	-13.606	0.274	1.00	0.00
ATOM	892	CG	ASP	56	3.672	-15.213	-0.753	1.00	0.00
ATOM	893	OD1	ASP	56	4.106	-15.300	-1.922	1.00	0.00
ATOM	894	OD2	ASP	56	3.117	-16.144	-0.135	1.00	0.00
ATOM	895	C	ASP	56	3.170	-12.110	-1.773	1.00	0.00
ATOM	896	O	ASP	56	2.944	-10.893	-1.800	1.00	0.00
ATOM	897	N	GLN	57	2.406	-12.969	-2.459	1.00	0.00
ATOM	898	H	GLN	57	2.636	-13.953	-2.451	1.00	0.00
ATOM	899	CA	GLN	57	1.290	-12.535	-3.261	1.00	0.00
ATOM	900	HA	GLN	57	1.460	-11.520	-3.620	1.00	0.00
ATOM	901	CB	GLN	57	1.123	-13.459	-4.468	1.00	0.00
ATOM	902	HB2	GLN	57	2.043	-14.025	-4.613	1.00	0.00
ATOM	903	HB3	GLN	57	0.300	-14.148	-4.278	1.00	0.00
ATOM	904	CG	GLN	57	0.824	-12.644	-5.725	1.00	0.00
ATOM	905	HG2	GLN	57	1.433	-11.740	-5.708	1.00	0.00
ATOM	906	HG3	GLN	57	1.055	-13.221	-6.621	1.00	0.00

ATOM	907	CD	GLN	57	-0.630	-12.245	-5.771	1.00	0.00
ATOM	908	OE1	GLN	57	-1.521	-13.043	-5.915	1.00	0.00
ATOM	909	NE2	GLN	57	-0.898	-10.972	-5.671	1.00	0.00
ATOM	910	HE21	GLN	57	-1.858	-10.658	-5.697	1.00	0.00
ATOM	911	HE22	GLN	57	-0.145	-10.307	-5.568	1.00	0.00
ATOM	912	C	GLN	57	0.014	-12.494	-2.447	1.00	0.00
ATOM	913	O	GLN	57	-0.917	-11.752	-2.740	1.00	0.00
ATOM	914	N	VAL	58	-0.026	-13.270	-1.372	1.00	0.00
ATOM	915	H	VAL	58	0.752	-13.890	-1.198	1.00	0.00
ATOM	916	CA	VAL	58	-1.170	-13.337	-0.483	1.00	0.00
ATOM	917	HA	VAL	58	-2.108	-13.327	-1.038	1.00	0.00
ATOM	918	CB	VAL	58	-1.118	-14.612	0.368	1.00	0.00
ATOM	919	HB	VAL	58	-0.779	-14.358	1.372	1.00	0.00
ATOM	920	CG1	VAL	58	-2.507	-15.253	0.445	1.00	0.00
ATOM	921	HG11	VAL	58	-2.846	-15.508	-0.559	1.00	0.00
ATOM	922	HG12	VAL	58	-2.457	-16.158	1.052	1.00	0.00
ATOM	923	HG13	VAL	58	-3.207	-14.551	0.897	1.00	0.00
ATOM	924	CG2	VAL	58	-0.111	-15.621	-0.194	1.00	0.00
ATOM	925	HG21	VAL	58	0.883	-15.175	-0.207	1.00	0.00
ATOM	926	HG22	VAL	58	-0.100	-16.513	0.433	1.00	0.00
ATOM	927	HG23	VAL	58	-0.399	-15.896	-1.209	1.00	0.00
ATOM	928	C	VAL	58	-1.215	-12.077	0.360	1.00	0.00



ATOM	929	O	VAL	58	-2.158	-11.902	1.129	1.00	0.00
ATOM	930	N	CYX	59	-0.230	-11.191	0.184	1.00	0.00
ATOM	931	H	CYX	59	0.509	-11.413	-0.467	1.00	0.00
ATOM	932	CA	CYX	59	-0.155	-9.954	0.900	1.00	0.00
ATOM	933	HA	CYX	59	-0.985	-9.887	1.603	1.00	0.00
ATOM	934	CB	CYX	59	1.135	-9.858	1.669	1.00	0.00
ATOM	935	HB2	CYX	59	1.955	-10.222	1.050	1.00	0.00
ATOM	936	HB3	CYX	59	1.320	-8.819	1.942	1.00	0.00
ATOM	937	SG	CYX	59	1.211	-10.832	3.216	1.00	0.00
ATOM	938	C	CYX	59	-0.266	-8.804	-0.070	1.00	0.00
ATOM	939	O	CYX	59	-0.851	-7.767	0.258	1.00	0.00
ATOM	940	N	VAL	60	0.177	-9.015	-1.318	1.00	0.00
ATOM	941	H	VAL	60	0.645	-9.884	-1.532	1.00	0.00
ATOM	942	CA	VAL	60	0.075	-8.018	-2.359	1.00	0.00
ATOM	943	HA	VAL	60	0.691	-7.137	-2.183	1.00	0.00
ATOM	944	CB	VAL	60	0.466	-8.625	-3.701	1.00	0.00
ATOM	945	HB	VAL	60	0.113	-9.656	-3.736	1.00	0.00
ATOM	946	CG1	VAL	60	-0.147	-7.839	-4.855	1.00	0.00
ATOM	947	HG11	VAL	60	0.206	-6.809	-4.822	1.00	0.00
ATOM	948	HG12	VAL	60	0.147	-8.293	-5.801	1.00	0.00
ATOM	949	HG13	VAL	60	-1.234	-7.854	-4.768	1.00	0.00
ATOM	950	CG2	VAL	60	1.970	-8.722	-3.837	1.00	0.00

ATOM	951	HG21	VAL	60	2.367	-9.352	-3.041	1.00	0.00
ATOM	952	HG22	VAL	60	2.220	-9.159	-4.804	1.00	0.00
ATOM	953	HG23	VAL	60	2.407	-7.726	-3.765	1.00	0.00
ATOM	954	C	VAL	60	-1.325	-7.449	-2.389	1.00	0.00
ATOM	955	O	VAL	60	-1.523	-6.324	-2.814	1.00	0.00
ATOM	956	N	CYX	61	-2.317	-8.224	-1.958	1.00	0.00
ATOM	957	H	CYX	61	-2.098	-9.188	-1.749	1.00	0.00
ATOM	958	CA	CYX	61	-3.664	-7.802	-1.847	1.00	0.00
ATOM	959	HA	CYX	61	-3.767	-7.076	-1.041	1.00	0.00
ATOM	960	CB	CYX	61	-4.101	-7.148	-3.150	1.00	0.00
ATOM	961	HB2	CYX	61	-3.336	-7.305	-3.910	1.00	0.00
ATOM	962	HB3	CYX	61	-5.039	-7.592	-3.483	1.00	0.00
ATOM	963	SG	CYX	61	-4.373	-5.358	-3.094	1.00	0.00
ATOM	964	C	CYX	61	-4.527	-9.000	-1.471	1.00	0.00
ATOM	965	O	CYX	61	-4.075	-10.123	-1.571	1.00	0.00
ATOM	966	N	PRO	62	-5.776	-8.744	-1.048	1.00	0.00
ATOM	967	CD	PRO	62	-6.785	-9.697	-0.631	1.00	0.00
ATOM	968	HD2	PRO	62	-6.431	-10.195	0.272	1.00	0.00
ATOM	969	HD3	PRO	62	-6.909	-10.433	-1.426	1.00	0.00
ATOM	970	CG	PRO	62	-8.059	-8.875	-0.390	1.00	0.00
ATOM	971	HG2	PRO	62	-8.343	-8.969	0.658	1.00	0.00
ATOM	972	HG3	PRO	62	-8.856	-9.272	-1.019	1.00	0.00

ATOM	973	CB	PRO	62	-7.746	-7.423	-0.756	1.00	0.00
ATOM	974	HB2	PRO	62	-8.092	-6.713	-0.006	1.00	0.00
ATOM	975	HB3	PRO	62	-8.182	-7.171	-1.723	1.00	0.00
ATOM	976	CA	PRO	62	-6.235	-7.383	-0.844	1.00	0.00
ATOM	977	HA	PRO	62	-6.000	-6.810	-1.741	1.00	0.00
ATOM	978	C	PRO	62	-5.595	-6.739	0.340	1.00	0.00
ATOM	979	O	PRO	62	-5.882	-5.620	0.634	1.00	0.00
ATOM	980	N	THR	63	-4.763	-7.451	1.055	1.00	0.00
ATOM	981	H	THR	63	-4.670	-8.419	0.781	1.00	0.00
ATOM	982	CA	THR	63	-4.028	-6.994	2.208	1.00	0.00
ATOM	983	HA	THR	63	-4.731	-7.087	3.036	1.00	0.00
ATOM	984	CB	THR	63	-2.848	-7.926	2.464	1.00	0.00
ATOM	985	HB	THR	63	-1.939	-7.418	2.142	1.00	0.00
ATOM	986	CG2	THR	63	-2.724	-8.304	3.916	1.00	0.00
ATOM	987	HG21	THR	63	-3.632	-8.813	4.238	1.00	0.00
ATOM	988	HG22	THR	63	-1.870	-8.968	4.047	1.00	0.00
ATOM	989	HG23	THR	63	-2.580	-7.405	4.515	1.00	0.00
ATOM	990	OG1	THR	63	-3.163	-9.149	1.811	1.00	0.00
ATOM	991	HG1	THR	63	-2.447	-9.776	1.942	1.00	0.00
ATOM	992	C	THR	63	-3.558	-5.586	2.035	1.00	0.00
ATOM	993	O	THR	63	-3.873	-4.809	2.912	1.00	0.00
ATOM	994	N	LEU	64	-2.957	-5.237	0.898	1.00	0.00

ATOM	995	H	LEU	64	-2.771	-5.962	0.219	1.00	0.00
ATOM	996	CA	LEU	64	-2.517	-3.888	0.602	1.00	0.00
ATOM	997	HA	LEU	64	-1.649	-3.634	1.210	1.00	0.00
ATOM	998	CB	LEU	64	-2.128	-3.783	-0.871	1.00	0.00
ATOM	999	HB2	LEU	64	-1.947	-4.812	-1.181	1.00	0.00
ATOM	1000	HB3	LEU	64	-2.963	-3.375	-1.440	1.00	0.00
ATOM	1001	CG	LEU	64	-0.872	-2.942	-1.132	1.00	0.00
ATOM	1002	HG	LEU	64	-0.230	-2.982	-0.252	1.00	0.00
ATOM	1003	CD1	LEU	64	-0.118	-3.472	-2.330	1.00	0.00
ATOM	1004	HD11	LEU	64	-0.759	-3.432	-3.211	1.00	0.00
ATOM	1005	HD12	LEU	64	0.770	-2.863	-2.500	1.00	0.00
ATOM	1006	HD13	LEU	64	0.180	-4.504	-2.145	1.00	0.00
ATOM	1007	CD2	LEU	64	-1.226	-1.471	-1.330	1.00	0.00
ATOM	1008	HD21	LEU	64	-1.719	-1.092	-0.435	1.00	0.00
ATOM	1009	HD22	LEU	64	-0.316	-0.900	-1.513	1.00	0.00
ATOM	1010	HD23	LEU	64	-1.896	-1.370	-2.184	1.00	0.00
ATOM	1011	C	LEU	64	-3.592	-2.879	0.930	1.00	0.00
ATOM	1012	O	LEU	64	-3.278	-1.861	1.535	1.00	0.00
ATOM	1013	N	LYS	65	-4.863	-3.209	0.640	1.00	0.00
ATOM	1014	H	LYS	65	-5.006	-4.030	0.068	1.00	0.00
ATOM	1015	CA	LYS	65	-6.013	-2.416	0.996	1.00	0.00
ATOM	1016	HA	LYS	65	-6.069	-1.547	0.340	1.00	0.00

ATOM	1017	CB	LYS	65	-7.314	-3.219	0.857	1.00	0.00
ATOM	1018	HB2	LYS	65	-7.428	-3.525	-0.183	1.00	0.00
ATOM	1019	HB3	LYS	65	-7.249	-4.104	1.490	1.00	0.00
ATOM	1020	CG	LYS	65	-8.517	-2.383	1.275	1.00	0.00
ATOM	1021	HG2	LYS	65	-8.254	-1.329	1.188	1.00	0.00
ATOM	1022	HG3	LYS	65	-9.346	-2.607	0.603	1.00	0.00
ATOM	1023	CD	LYS	65	-8.934	-2.688	2.720	1.00	0.00
ATOM	1024	HD2	LYS	65	-8.119	-3.208	3.223	1.00	0.00
ATOM	1025	HD3	LYS	65	-9.140	-1.751	3.236	1.00	0.00
ATOM	1026	CE	LYS	65	-10.186	-3.566	2.739	1.00	0.00
ATOM	1027	HE2	LYS	65	-10.748	-3.405	1.819	1.00	0.00
ATOM	1028	HE3	LYS	65	-9.887	-4.612	2.802	1.00	0.00
ATOM	1029	NZ	LYS	65	-11.033	-3.226	3.899	1.00	0.00
ATOM	1030	HZ1	LYS	65	-11.311	-2.257	3.840	1.00	0.00
ATOM	1031	HZ2	LYS	65	-11.855	-3.813	3.899	1.00	0.00
ATOM	1032	HZ3	LYS	65	-10.512	-3.376	4.751	1.00	0.00
ATOM	1033	C	LYS	65	-5.832	-1.845	2.384	1.00	0.00
ATOM	1034	O	LYS	65	-6.280	-0.767	2.623	1.00	0.00
ATOM	1035	N	GLN	66	-5.200	-2.541	3.308	1.00	0.00
ATOM	1036	H	GLN	66	-5.012	-3.503	3.064	1.00	0.00
ATOM	1037	CA	GLN	66	-4.846	-2.096	4.605	1.00	0.00
ATOM	1038	HA	GLN	66	-5.733	-1.720	5.115	1.00	0.00

ATOM	1039	CB	GLN	66	-4.250	-3.236	5.437	1.00	0.00
ATOM	1040	HB2	GLN	66	-4.957	-4.065	5.469	1.00	0.00
ATOM	1041	HB3	GLN	66	-3.320	-3.570	4.976	1.00	0.00
ATOM	1042	CG	GLN	66	-3.966	-2.748	6.870	1.00	0.00
ATOM	1043	HG2	GLN	66	-3.688	-3.557	7.546	1.00	0.00
ATOM	1044	HG3	GLN	66	-3.138	-2.044	6.787	1.00	0.00
ATOM	1045	CD	GLN	66	-5.171	-2.017	7.454	1.00	0.00
ATOM	1046	OE1	GLN	66	-5.058	-0.984	8.090	1.00	0.00
ATOM	1047	NE2	GLN	66	-6.359	-2.531	7.148	1.00	0.00
ATOM	1048	HE21	GLN	66	-7.200	-2.097	7.501	1.00	0.00
ATOM	1049	HE22	GLN	66	-6.415	-3.353	6.564	1.00	0.00
ATOM	1050	C	GLN	66	-3.900	-0.922	4.587	1.00	0.00
ATOM	1051	O	GLN	66	-4.291	0.181	4.948	1.00	0.00
ATOM	1052	N	ALA	67	-2.645	-1.145	4.203	1.00	0.00
ATOM	1053	H	ALA	67	-2.346	-2.092	4.016	1.00	0.00
ATOM	1054	CA	ALA	67	-1.669	-0.086	4.101	1.00	0.00
ATOM	1055	HA	ALA	67	-1.450	0.325	5.086	1.00	0.00
ATOM	1056	CB	ALA	67	-0.381	-0.646	3.510	1.00	0.00
ATOM	1057	HB1	ALA	67	-0.582	-1.053	2.519	1.00	0.00
ATOM	1058	HB2	ALA	67	0.360	0.150	3.432	1.00	0.00
ATOM	1059	HB3	ALA	67	0.002	-1.436	4.156	1.00	0.00
ATOM	1060	C	ALA	67	-2.222	1.058	3.258	1.00	0.00

ATOM	1061	O	ALA	67	-1.844	2.200	3.454	1.00	0.00
ATOM	1062	N	ALA	68	-3.199	0.783	2.401	1.00	0.00
ATOM	1063	H	ALA	68	-3.474	-0.182	2.286	1.00	0.00
ATOM	1064	CA	ALA	68	-3.843	1.774	1.592	1.00	0.00
ATOM	1065	HA	ALA	68	-3.153	2.586	1.361	1.00	0.00
ATOM	1066	CB	ALA	68	-4.281	1.121	0.287	1.00	0.00
ATOM	1067	HB1	ALA	68	-4.979	0.312	0.501	1.00	0.00
ATOM	1068	HB2	ALA	68	-4.769	1.863	-0.346	1.00	0.00
ATOM	1069	HB3	ALA	68	-3.409	0.720	-0.230	1.00	0.00
ATOM	1070	C	ALA	68	-5.022	2.392	2.330	1.00	0.00
ATOM	1071	O	ALA	68	-5.394	3.543	2.129	1.00	0.00
ATOM	1072	N	LYS	69	-5.634	1.651	3.242	1.00	0.00
ATOM	1073	H	LYS	69	-5.335	0.690	3.325	1.00	0.00
ATOM	1074	CA	LYS	69	-6.738	2.092	4.045	1.00	0.00
ATOM	1075	HA	LYS	69	-7.440	2.650	3.425	1.00	0.00
ATOM	1076	CB	LYS	69	-7.476	0.899	4.669	1.00	0.00
ATOM	1077	HB2	LYS	69	-7.834	0.250	3.870	1.00	0.00
ATOM	1078	HB3	LYS	69	-6.780	0.346	5.301	1.00	0.00
ATOM	1079	CG	LYS	69	-8.663	1.373	5.511	1.00	0.00
ATOM	1080	HG2	LYS	69	-9.290	0.512	5.745	1.00	0.00
ATOM	1081	HG3	LYS	69	-8.283	1.807	6.436	1.00	0.00
ATOM	1082	CD	LYS	69	-9.494	2.422	4.756	1.00	0.00

ATOM	1083	HD2	LYS	69	-8.951	3.367	4.762	1.00	0.00
ATOM	1084	HD3	LYS	69	-9.626	2.086	3.727	1.00	0.00
ATOM	1085	CE	LYS	69	-10.856	2.616	5.405	1.00	0.00
ATOM	1086	HE2	LYS	69	-11.584	1.988	4.891	1.00	0.00
ATOM	1087	HE3	LYS	69	-10.794	2.317	6.451	1.00	0.00
ATOM	1088	NZ	LYS	69	-11.278	4.027	5.321	1.00	0.00
ATOM	1089	HZ1	LYS	69	-11.336	4.303	4.351	1.00	0.00
ATOM	1090	HZ2	LYS	69	-12.183	4.134	5.757	1.00	0.00
ATOM	1091	HZ3	LYS	69	-10.604	4.609	5.797	1.00	0.00
ATOM	1092	C	LYS	69	-6.227	3.063	5.080	1.00	0.00
ATOM	1093	O	LYS	69	-6.913	4.013	5.398	1.00	0.00
ATOM	1094	N	SER	70	-5.006	2.877	5.565	1.00	0.00
ATOM	1095	H	SER	70	-4.487	2.062	5.271	1.00	0.00
ATOM	1096	CA	SER	70	-4.400	3.763	6.535	1.00	0.00
ATOM	1097	HA	SER	70	-5.168	4.379	7.003	1.00	0.00
ATOM	1098	CB	SER	70	-3.691	2.962	7.619	1.00	0.00
ATOM	1099	HB2	SER	70	-4.407	2.270	8.063	1.00	0.00
ATOM	1100	HB3	SER	70	-2.879	2.398	7.159	1.00	0.00
ATOM	1101	OG	SER	70	-3.165	3.811	8.628	1.00	0.00
ATOM	1102	HG	SER	70	-2.725	3.280	9.296	1.00	0.00
ATOM	1103	C	SER	70	-3.429	4.700	5.843	1.00	0.00
ATOM	1104	O	SER	70	-2.625	5.388	6.474	1.00	0.00



ATOM	1105	N	VAL	71	-3.489	4.753	4.507	1.00	0.00
ATOM	1106	H	VAL	71	-4.105	4.123	4.013	1.00	0.00
ATOM	1107	CA	VAL	71	-2.633	5.625	3.731	1.00	0.00
ATOM	1108	HA	VAL	71	-1.576	5.527	3.978	1.00	0.00
ATOM	1109	CB	VAL	71	-2.814	5.341	2.240	1.00	0.00
ATOM	1110	HB	VAL	71	-3.282	4.362	2.127	1.00	0.00
ATOM	1111	CG1	VAL	71	-3.677	6.389	1.583	1.00	0.00
ATOM	1112	HG11	VAL	71	-3.210	7.367	1.695	1.00	0.00
ATOM	1113	HG12	VAL	71	-3.786	6.158	0.523	1.00	0.00
ATOM	1114	HG13	VAL	71	-4.659	6.399	2.055	1.00	0.00
ATOM	1115	CG2	VAL	71	-1.483	5.223	1.526	1.00	0.00
ATOM	1116	HG21	VAL	71	-0.907	4.407	1.963	1.00	0.00
ATOM	1117	HG22	VAL	71	-1.654	5.021	0.468	1.00	0.00
ATOM	1118	HG23	VAL	71	-0.929	6.155	1.632	1.00	0.00
ATOM	1119	C	VAL	71	-2.942	7.068	4.103	1.00	0.00
ATOM	1120	O	VAL	71	-2.232	7.992	3.765	1.00	0.00
ATOM	1121	N	ARG	72	-4.068	7.322	4.763	1.00	0.00
ATOM	1122	H	ARG	72	-4.701	6.557	4.950	1.00	0.00
ATOM	1123	CA	ARG	72	-4.447	8.640	5.193	1.00	0.00
ATOM	1124	HA	ARG	72	-3.569	9.209	5.498	1.00	0.00
ATOM	1125	CB	ARG	72	-5.123	9.369	4.029	1.00	0.00
ATOM	1126	HB2	ARG	72	-5.104	8.726	3.148	1.00	0.00

ATOM	1127	HB3 ARG	72	-6.157	9.585	4.298	1.00	0.00
ATOM	1128	CG ARG	72	-4.393	10.675	3.722	1.00	0.00
ATOM	1129	HG2 ARG	72	-3.461	10.689	4.286	1.00	0.00
ATOM	1130	HG3 ARG	72	-4.172	10.703	2.655	1.00	0.00
ATOM	1131	CD ARG	72	-5.232	11.889	4.098	1.00	0.00
ATOM	1132	HD2 ARG	72	-5.965	12.069	3.311	1.00	0.00
ATOM	1133	HD3 ARG	72	-5.749	11.683	5.035	1.00	0.00
ATOM	1134	NE ARG	72	-4.417	13.096	4.266	1.00	0.00
ATOM	1135	HE ARG	72	-4.464	13.783	3.528	1.00	0.00
ATOM	1136	CZ ARG	72	-3.624	13.333	5.303	1.00	0.00
ATOM	1137	NH1 ARG	72	-3.565	12.476	6.298	1.00	0.00
ATOM	1138	HH11 ARG	72	-4.125	11.636	6.271	1.00	0.00
ATOM	1139	HH12 ARG	72	-2.960	12.661	7.085	1.00	0.00
ATOM	1140	NH2 ARG	72	-2.909	14.428	5.344	1.00	0.00
ATOM	1141	HH21 ARG	72	-2.963	15.091	4.584	1.00	0.00
ATOM	1142	HH22 ARG	72	-2.307	14.604	6.135	1.00	0.00
ATOM	1143	C ARG	72	-5.372	8.547	6.378	1.00	0.00
ATOM	1144	O ARG	72	-4.967	8.889	7.481	1.00	0.00
ATOM	1145	N VAL	73	-6.637	8.180	6.112	1.00	0.00
ATOM	1146	H VAL	73	-6.911	8.026	5.152	1.00	0.00
ATOM	1147	CA VAL	73	-7.649	8.079	7.137	1.00	0.00
ATOM	1148	HA VAL	73	-7.933	9.048	7.547	1.00	0.00

ATOM	1149	CB	VAL	73	-8.897	7.407	6.564	1.00	0.00
ATOM	1150	HB	VAL	73	-9.067	7.802	5.563	1.00	0.00
ATOM	1151	CG1	VAL	73	-8.749	5.894	6.493	1.00	0.00
ATOM	1152	HG11	VAL	73	-8.579	5.497	7.494	1.00	0.00
ATOM	1153	HG12	VAL	73	-9.659	5.458	6.080	1.00	0.00
ATOM	1154	HG13	VAL	73	-7.903	5.640	5.854	1.00	0.00
ATOM	1155	CG2	VAL	73	-10.136	7.772	7.385	1.00	0.00
ATOM	1156	HG21	VAL	73	-10.279	8.852	7.367	1.00	0.00
ATOM	1157	HG22	VAL	73	-11.012	7.282	6.959	1.00	0.00
ATOM	1158	HG23	VAL	73	-10.001	7.441	8.415	1.00	0.00
ATOM	1159	C	VAL	73	-7.068	7.332	8.336	1.00	0.00
ATOM	1160	O	VAL	73	-6.102	6.569	8.213	1.00	0.00
ATOM	1161	N	GLN	74	-7.696	7.521	9.482	1.00	0.00
ATOM	1162	H	GLN	74	-8.471	8.166	9.537	1.00	0.00
ATOM	1163	CA	GLN	74	-7.252	6.876	10.700	1.00	0.00
ATOM	1164	HA	GLN	74	-7.268	5.793	10.571	1.00	0.00
ATOM	1165	CB	GLN	74	-5.822	7.307	11.046	1.00	0.00
ATOM	1166	HB2	GLN	74	-5.338	7.691	10.148	1.00	0.00
ATOM	1167	HB3	GLN	74	-5.859	8.091	11.802	1.00	0.00
ATOM	1168	CG	GLN	74	-5.025	6.114	11.585	1.00	0.00
ATOM	1169	HG2	GLN	74	-5.719	5.427	12.070	1.00	0.00
ATOM	1170	HG3	GLN	74	-4.518	5.600	10.768	1.00	0.00

ATOM	1171	CD	GLN	74	-3.983	6.553	12.604	1.00	0.00
ATOM	1172	OE1	GLN	74	-3.640	7.720	12.733	1.00	0.00
ATOM	1173	NE2	GLN	74	-3.452	5.586	13.330	1.00	0.00
ATOM	1174	HE21	GLN	74	-2.754	5.806	14.026	1.00	0.00
ATOM	1175	HE22	GLN	74	-3.747	4.630	13.186	1.00	0.00
ATOM	1176	C	GLN	74	-8.210	7.178	11.848	1.00	0.00
ATOM	1177	O	GLN	74	-7.814	7.354	12.994	1.00	0.00
ATOM	1178	N	GLY	75	-9.498	7.306	11.516	1.00	0.00
ATOM	1179	H	GLY	75	-9.779	7.201	10.551	1.00	0.00
ATOM	1180	CA	GLY	75	-10.519	7.593	12.501	1.00	0.00
ATOM	1181	HA2	GLY	75	-10.634	6.733	13.161	1.00	0.00
ATOM	1182	HA3	GLY	75	-10.220	8.462	13.086	1.00	0.00
ATOM	1183	C	GLY	75	-11.842	7.881	11.835	1.00	0.00
ATOM	1184	O	GLY	75	-12.830	7.205	12.105	1.00	0.00
ATOM	1185	N	GLN	76	-11.842	8.841	10.897	1.00	0.00
ATOM	1186	H	GLN	76	-10.990	9.347	10.704	1.00	0.00
ATOM	1187	CA	GLN	76	-13.044	9.224	10.186	1.00	0.00
ATOM	1188	HA	GLN	76	-13.356	8.405	9.538	1.00	0.00
ATOM	1189	CB	GLN	76	-14.189	9.547	11.154	1.00	0.00
ATOM	1190	HB2	GLN	76	-13.928	9.182	12.147	1.00	0.00
ATOM	1191	HB3	GLN	76	-14.331	10.627	11.189	1.00	0.00
ATOM	1192	CG	GLN	76	-15.485	8.878	10.689	1.00	0.00

ATOM	1193	HG2	GLN	76	-15.539	8.905	9.601	1.00	0.00
ATOM	1194	HG3	GLN	76	-15.512	7.842	11.027	1.00	0.00
ATOM	1195	CD	GLN	76	-16.693	9.604	11.253	1.00	0.00
ATOM	1196	OE1	GLN	76	-17.268	10.471	10.616	1.00	0.00
ATOM	1197	NE2	GLN	76	-17.065	9.239	12.463	1.00	0.00
ATOM	1198	HE21	GLN	76	-17.862	9.682	12.898	1.00	0.00
ATOM	1199	HE22	GLN	76	-16.552	8.518	12.950	1.00	0.00
ATOM	1200	C	GLN	76	-12.769	10.412	9.284	1.00	0.00
ATOM	1201	O	GLN	76	-12.590	11.539	9.733	1.00	0.00
ATOM	1202	N	HID	77	-12.652	10.144	7.985	1.00	0.00
ATOM	1203	H	HID	77	-12.636	9.181	7.681	1.00	0.00
ATOM	1204	CA	HID	77	-12.418	11.183	6.995	1.00	0.00
ATOM	1205	HA	HID	77	-12.587	12.167	7.432	1.00	0.00
ATOM	1206	CB	HID	77	-10.969	11.106	6.509	1.00	0.00
ATOM	1207	HB2	HID	77	-10.284	11.271	7.340	1.00	0.00
ATOM	1208	HB3	HID	77	-10.766	10.133	6.060	1.00	0.00
ATOM	1209	CG	HID	77	-10.638	12.139	5.466	1.00	0.00
ATOM	1210	ND1	HID	77	-10.018	13.341	5.731	1.00	0.00
ATOM	1211	HD1	HID	77	-9.724	13.663	6.642	1.00	0.00
ATOM	1212	CE1	HID	77	-9.873	14.009	4.570	1.00	0.00
ATOM	1213	HE1	HID	77	-9.392	14.987	4.555	1.00	0.00
ATOM	1214	NE2	HID	77	-10.397	13.269	3.578	1.00	0.00

ATOM	1215	CD2	HID	77	-10.873	12.086	4.114	1.00	0.00
ATOM	1216	HD2	HID	77	-11.328	11.337	3.465	1.00	0.00
ATOM	1217	C	HID	77	-13.450	11.085	5.878	1.00	0.00
ATOM	1218	O	HID	77	-13.339	11.753	4.861	1.00	0.00
ATOM	1219	N	GLY	78	-14.459	10.233	6.063	1.00	0.00
ATOM	1220	H	GLY	78	-14.515	9.710	6.925	1.00	0.00
ATOM	1221	CA	GLY	78	-15.483	10.027	5.071	1.00	0.00
ATOM	1222	HA2	GLY	78	-16.148	9.230	5.406	1.00	0.00
ATOM	1223	HA3	GLY	78	-16.053	10.948	4.952	1.00	0.00
ATOM	1224	C	GLY	78	-14.880	9.636	3.720	1.00	0.00
ATOM	1225	O	GLY	78	-13.657	9.460	3.565	1.00	0.00
ATOM	1226	N	PRO	79	-15.757	9.434	2.736	1.00	0.00
ATOM	1227	CD	PRO	79	-17.204	9.562	2.837	1.00	0.00
ATOM	1228	HD2	PRO	79	-17.440	10.613	2.999	1.00	0.00
ATOM	1229	HD3	PRO	79	-17.536	8.979	3.696	1.00	0.00
ATOM	1230	CG	PRO	79	-17.768	9.029	1.516	1.00	0.00
ATOM	1231	HG2	PRO	79	-18.282	9.838	0.998	1.00	0.00
ATOM	1232	HG3	PRO	79	-18.476	8.228	1.730	1.00	0.00
ATOM	1233	CB	PRO	79	-16.581	8.506	0.698	1.00	0.00
ATOM	1234	HB2	PRO	79	-16.614	8.848	-0.337	1.00	0.00
ATOM	1235	HB3	PRO	79	-16.549	7.416	0.719	1.00	0.00
ATOM	1236	CA	PRO	79	-15.348	9.077	1.395	1.00	0.00

ATOM	1237	HA	PRO	79	-14.624	8.265	1.466	1.00	0.00
ATOM	1238	C	PRO	79	-14.725	10.245	0.655	1.00	0.00
ATOM	1239	O	PRO	79	-15.427	11.095	0.128	1.00	0.00
ATOM	1240	N	PHE	80	-13.387	10.284	0.630	1.00	0.00
ATOM	1241	H	PHE	80	-12.849	9.549	1.068	1.00	0.00
ATOM	1242	CA	PHE	80	-12.674	11.362	-0.019	1.00	0.00
ATOM	1243	HA	PHE	80	-13.233	11.751	-0.870	1.00	0.00
ATOM	1244	CB	PHE	80	-12.506	12.482	1.008	1.00	0.00
ATOM	1245	HB2	PHE	80	-13.350	12.489	1.698	1.00	0.00
ATOM	1246	HB3	PHE	80	-11.582	12.333	1.566	1.00	0.00
ATOM	1247	CG	PHE	80	-12.429	13.859	0.407	1.00	0.00
ATOM	1248	CD1	PHE	80	-13.599	14.500	-0.022	1.00	0.00
ATOM	1249	HD1	PHE	80	-14.560	13.996	0.079	1.00	0.00
ATOM	1250	CE1	PHE	80	-13.536	15.787	-0.581	1.00	0.00
ATOM	1251	HE1	PHE	80	-14.452	16.277	-0.912	1.00	0.00
ATOM	1252	CZ	PHE	80	-12.303	16.441	-0.715	1.00	0.00
ATOM	1253	HZ	PHE	80	-12.248	17.438	-1.151	1.00	0.00
ATOM	1254	CE2	PHE	80	-11.133	15.799	-0.282	1.00	0.00
ATOM	1255	HE2	PHE	80	-10.172	16.303	-0.381	1.00	0.00
ATOM	1256	CD2	PHE	80	-11.197	14.513	0.277	1.00	0.00
ATOM	1257	HD2	PHE	80	-10.285	14.018	0.612	1.00	0.00
ATOM	1258	C	PHE	80	-11.311	10.896	-0.497	1.00	0.00

ATOM	1259	O	PHE	80	-11.015	10.862	-1.680	1.00	0.00
ATOM	1260	N	GLN	81	-10.463	10.499	0.460	1.00	0.00
ATOM	1261	H	GLN	81	-10.769	10.500	1.422	1.00	0.00
ATOM	1262	CA	GLN	81	-9.112	10.083	0.172	1.00	0.00
ATOM	1263	HA	GLN	81	-8.654	10.800	-0.509	1.00	0.00
ATOM	1264	CB	GLN	81	-8.266	10.002	1.436	1.00	0.00
ATOM	1265	HB2	GLN	81	-8.620	9.166	2.040	1.00	0.00
ATOM	1266	HB3	GLN	81	-7.228	9.829	1.151	1.00	0.00
ATOM	1267	CG	GLN	81	-8.363	11.289	2.244	1.00	0.00
ATOM	1268	HG2	GLN	81	-7.509	11.916	1.988	1.00	0.00
ATOM	1269	HG3	GLN	81	-9.286	11.820	2.012	1.00	0.00
ATOM	1270	CD	GLN	81	-8.328	11.007	3.733	1.00	0.00
ATOM	1271	OE1	GLN	81	-8.652	9.944	4.230	1.00	0.00
ATOM	1272	NE2	GLN	81	-7.946	12.014	4.487	1.00	0.00
ATOM	1273	HE21	GLN	81	-7.898	11.900	5.489	1.00	0.00
ATOM	1274	HE22	GLN	81	-7.702	12.896	4.060	1.00	0.00
ATOM	1275	C	GLN	81	-9.181	8.743	-0.483	1.00	0.00
ATOM	1276	O	GLN	81	-8.729	8.658	-1.593	1.00	0.00
ATOM	1277	N	SER	82	-9.795	7.741	0.158	1.00	0.00
ATOM	1278	H	SER	82	-10.194	7.928	1.066	1.00	0.00
ATOM	1279	CA	SER	82	-9.913	6.398	-0.382	1.00	0.00
ATOM	1280	HA	SER	82	-8.982	5.854	-0.222	1.00	0.00



ATOM	1281	CB	SER	82	-11.045	5.640	0.304	1.00	0.00
ATOM	1282	HB2	SER	82	-10.782	5.527	1.355	1.00	0.00
ATOM	1283	HB3	SER	82	-11.949	6.242	0.219	1.00	0.00
ATOM	1284	OG	SER	82	-11.272	4.372	-0.261	1.00	0.00
ATOM	1285	HG	SER	82	-11.991	3.938	0.204	1.00	0.00
ATOM	1286	C	SER	82	-10.198	6.444	-1.866	1.00	0.00
ATOM	1287	O	SER	82	-9.495	5.820	-2.617	1.00	0.00
ATOM	1288	N	THR	83	-11.135	7.290	-2.282	1.00	0.00
ATOM	1289	H	THR	83	-11.702	7.765	-1.594	1.00	0.00
ATOM	1290	CA	THR	83	-11.457	7.473	-3.680	1.00	0.00
ATOM	1291	HA	THR	83	-12.036	6.606	-3.999	1.00	0.00
ATOM	1292	CB	THR	83	-12.324	8.722	-3.833	1.00	0.00
ATOM	1293	HB	THR	83	-12.149	9.349	-2.959	1.00	0.00
ATOM	1294	CG2	THR	83	-12.027	9.520	-5.099	1.00	0.00
ATOM	1295	HG21	THR	83	-12.202	8.893	-5.974	1.00	0.00
ATOM	1296	HG22	THR	83	-12.680	10.392	-5.141	1.00	0.00
ATOM	1297	HG23	THR	83	-10.987	9.845	-5.088	1.00	0.00
ATOM	1298	OG1	THR	83	-13.639	8.266	-3.957	1.00	0.00
ATOM	1299	HG1	THR	83	-14.230	9.016	-4.057	1.00	0.00
ATOM	1300	C	THR	83	-10.202	7.510	-4.542	1.00	0.00
ATOM	1301	O	THR	83	-9.877	6.549	-5.241	1.00	0.00
ATOM	1302	N	ARG	84	-9.445	8.610	-4.448	1.00	0.00

ATOM	1303	H	ARG	84	-9.725	9.352	-3.824	1.00	0.00
ATOM	1304	CA	ARG	84	-8.248	8.784	-5.217	1.00	0.00
ATOM	1305	HA	ARG	84	-8.445	8.538	-6.261	1.00	0.00
ATOM	1306	CB	ARG	84	-7.756	10.230	-5.140	1.00	0.00
ATOM	1307	HB2	ARG	84	-8.425	10.795	-4.491	1.00	0.00
ATOM	1308	HB3	ARG	84	-6.750	10.238	-4.720	1.00	0.00
ATOM	1309	CG	ARG	84	-7.733	10.871	-6.533	1.00	0.00
ATOM	1310	HG2	ARG	84	-8.762	11.055	-6.841	1.00	0.00
ATOM	1311	HG3	ARG	84	-7.199	11.819	-6.464	1.00	0.00
ATOM	1312	CD	ARG	84	-7.045	9.972	-7.565	1.00	0.00
ATOM	1313	HD2	ARG	84	-6.576	9.129	-7.057	1.00	0.00
ATOM	1314	HD3	ARG	84	-7.785	9.601	-8.275	1.00	0.00
ATOM	1315	NE	ARG	84	-6.010	10.712	-8.306	1.00	0.00
ATOM	1316	HE	ARG	84	-5.678	11.560	-7.869	1.00	0.00
ATOM	1317	CZ	ARG	84	-5.508	10.369	-9.475	1.00	0.00
ATOM	1318	NH1	ARG	84	-5.969	9.316	-10.109	1.00	0.00
ATOM	1319	HH11	ARG	84	-6.711	8.767	-9.698	1.00	0.00
ATOM	1320	HH12	ARG	84	-5.580	9.059	-11.005	1.00	0.00
ATOM	1321	NH2	ARG	84	-4.531	11.068	-10.005	1.00	0.00
ATOM	1322	HH21	ARG	84	-4.164	11.870	-9.514	1.00	0.00
ATOM	1323	HH22	ARG	84	-4.151	10.799	-10.902	1.00	0.00
ATOM	1324	C	ARG	84	-7.177	7.869	-4.698	1.00	0.00

ATOM	1325	O	ARG	84	-6.458	7.274	-5.481	1.00	0.00
ATOM	1326	N	ILE	85	-7.012	7.800	-3.385	1.00	0.00
ATOM	1327	H	ILE	85	-7.547	8.447	-2.824	1.00	0.00
ATOM	1328	CA	ILE	85	-6.064	6.946	-2.723	1.00	0.00
ATOM	1329	HA	ILE	85	-5.032	7.258	-2.883	1.00	0.00
ATOM	1330	CB	ILE	85	-6.346	6.863	-1.217	1.00	0.00
ATOM	1331	HB	ILE	85	-7.424	6.905	-1.060	1.00	0.00
ATOM	1332	CG2	ILE	85	-5.798	5.569	-0.629	1.00	0.00
ATOM	1333	HG21	ILE	85	-4.720	5.526	-0.785	1.00	0.00
ATOM	1334	HG22	ILE	85	-6.011	5.535	0.439	1.00	0.00
ATOM	1335	HG23	ILE	85	-6.270	4.717	-1.120	1.00	0.00
ATOM	1336	CG1	ILE	85	-5.804	8.105	-0.488	1.00	0.00
ATOM	1337	HG12	ILE	85	-6.345	8.980	-0.847	1.00	0.00
ATOM	1338	HG13	ILE	85	-5.980	7.983	0.581	1.00	0.00
ATOM	1339	CD1	ILE	85	-4.309	8.292	-0.740	1.00	0.00
ATOM	1340	HD11	ILE	85	-4.133	8.414	-1.809	1.00	0.00
ATOM	1341	HD12	ILE	85	-3.959	9.178	-0.211	1.00	0.00
ATOM	1342	HD13	ILE	85	-3.767	7.417	-0.381	1.00	0.00
ATOM	1343	C	ILE	85	-6.058	5.581	-3.382	1.00	0.00
ATOM	1344	O	ILE	85	-5.004	4.999	-3.533	1.00	0.00
ATOM	1345	N	TYR	86	-7.204	5.124	-3.861	1.00	0.00
ATOM	1346	H	TYR	86	-8.019	5.710	-3.751	1.00	0.00

ATOM	1347	CA	TYR	86	-7.352	3.880	-4.547	1.00	0.00
ATOM	1348	HA	TYR	86	-6.666	3.126	-4.161	1.00	0.00
ATOM	1349	CB	TYR	86	-8.778	3.407	-4.308	1.00	0.00
ATOM	1350	HB2	TYR	86	-9.398	4.302	-4.268	1.00	0.00
ATOM	1351	HB3	TYR	86	-9.070	2.800	-5.166	1.00	0.00
ATOM	1352	CG	TYR	86	-8.966	2.606	-3.036	1.00	0.00
ATOM	1353	CD1	TYR	86	-8.654	3.165	-1.785	1.00	0.00
ATOM	1354	HD1	TYR	86	-8.277	4.186	-1.739	1.00	0.00
ATOM	1355	CE1	TYR	86	-8.822	2.425	-0.605	1.00	0.00
ATOM	1356	HE1	TYR	86	-8.543	2.842	0.362	1.00	0.00
ATOM	1357	CZ	TYR	86	-9.307	1.112	-0.689	1.00	0.00
ATOM	1358	OH	TYR	86	-9.519	0.419	0.455	1.00	0.00
ATOM	1359	HH	TYR	86	-9.305	0.922	1.244	1.00	0.00
ATOM	1360	CE2	TYR	86	-9.622	0.533	-1.930	1.00	0.00
ATOM	1361	HE2	TYR	86	-10.000	-0.488	-1.989	1.00	0.00
ATOM	1362	CD2	TYR	86	-9.444	1.286	-3.106	1.00	0.00
ATOM	1363	HD2	TYR	86	-9.677	0.845	-4.076	1.00	0.00
ATOM	1364	C	TYR	86	-7.145	4.047	-6.028	1.00	0.00
ATOM	1365	O	TYR	86	-6.478	3.245	-6.662	1.00	0.00
ATOM	1366	N	GLN	87	-7.650	5.130	-6.611	1.00	0.00
ATOM	1367	H	GLN	87	-8.210	5.758	-6.052	1.00	0.00
ATOM	1368	CA	GLN	87	-7.482	5.427	-8.009	1.00	0.00

ATOM	1369	HA	GLN	87	-7.812	4.578	-8.608	1.00	0.00
ATOM	1370	CB	GLN	87	-8.306	6.649	-8.400	1.00	0.00
ATOM	1371	HB2	GLN	87	-9.027	6.856	-7.610	1.00	0.00
ATOM	1372	HB3	GLN	87	-7.638	7.503	-8.515	1.00	0.00
ATOM	1373	CG	GLN	87	-9.048	6.402	-9.715	1.00	0.00
ATOM	1374	HG2	GLN	87	-8.430	6.463	-10.611	1.00	0.00
ATOM	1375	HG3	GLN	87	-9.423	5.385	-9.602	1.00	0.00
ATOM	1376	CD	GLN	87	-10.234	7.343	-9.876	1.00	0.00
ATOM	1377	OE1	GLN	87	-10.284	8.409	-9.273	1.00	0.00
ATOM	1378	NE2	GLN	87	-11.100	7.009	-10.798	1.00	0.00
ATOM	1379	HE21	GLN	87	-11.911	7.589	-10.959	1.00	0.00
ATOM	1380	HE22	GLN	87	-10.953	6.172	-11.345	1.00	0.00
ATOM	1381	C	GLN	87	-6.019	5.656	-8.338	1.00	0.00
ATOM	1382	O	GLN	87	-5.644	5.754	-9.500	1.00	0.00
ATOM	1383	N	ILE	88	-5.154	5.765	-7.344	1.00	0.00
ATOM	1384	H	ILE	88	-5.527	5.771	-6.405	1.00	0.00
ATOM	1385	CA	ILE	88	-3.741	5.947	-7.516	1.00	0.00
ATOM	1386	HA	ILE	88	-3.465	5.947	-8.571	1.00	0.00
ATOM	1387	CB	ILE	88	-3.315	7.270	-6.877	1.00	0.00
ATOM	1388	HB	ILE	88	-3.658	7.288	-5.843	1.00	0.00
ATOM	1389	CG2	ILE	88	-1.796	7.422	-6.912	1.00	0.00
ATOM	1390	HG21	ILE	88	-1.452	7.404	-7.946	1.00	0.00

ATOM	1391	HG22	ILE	88	-1.515	8.369	-6.453	1.00	0.00
ATOM	1392	HG23	ILE	88	-1.335	6.601	-6.362	1.00	0.00
ATOM	1393	CG1	ILE	88	-3.981	8.449	-7.591	1.00	0.00
ATOM	1394	HG12	ILE	88	-3.438	8.664	-8.511	1.00	0.00
ATOM	1395	HG13	ILE	88	-5.012	8.187	-7.831	1.00	0.00
ATOM	1396	CD1	ILE	88	-3.966	9.689	-6.686	1.00	0.00
ATOM	1397	HD11	ILE	88	-2.936	9.951	-6.446	1.00	0.00
ATOM	1398	HD12	ILE	88	-4.442	10.522	-7.203	1.00	0.00
ATOM	1399	HD13	ILE	88	-4.510	9.474	-5.766	1.00	0.00
ATOM	1400	C	ILE	88	-3.016	4.755	-6.926	1.00	0.00
ATOM	1401	O	ILE	88	-1.833	4.599	-7.139	1.00	0.00
ATOM	1402	N	ALA	89	-3.716	3.894	-6.208	1.00	0.00
ATOM	1403	H	ALA	89	-4.681	4.111	-6.001	1.00	0.00
ATOM	1404	CA	ALA	89	-3.149	2.696	-5.642	1.00	0.00
ATOM	1405	HA	ALA	89	-2.060	2.743	-5.669	1.00	0.00
ATOM	1406	CB	ALA	89	-3.594	2.575	-4.194	1.00	0.00
ATOM	1407	HB1	ALA	89	-4.682	2.517	-4.151	1.00	0.00
ATOM	1408	HB2	ALA	89	-3.166	1.673	-3.756	1.00	0.00
ATOM	1409	HB3	ALA	89	-3.255	3.447	-3.635	1.00	0.00
ATOM	1410	C	ALA	89	-3.549	1.488	-6.472	1.00	0.00
ATOM	1411	O	ALA	89	-3.213	0.354	-6.143	1.00	0.00
ATOM	1412	N	LYS	90	-4.264	1.728	-7.577	1.00	0.00

ATOM	1413	H	LYS	90	-4.569	2.673	-7.762	1.00	0.00
ATOM	1414	CA	LYS	90	-4.715	0.675	-8.463	1.00	0.00
ATOM	1415	HA	LYS	90	-4.668	-0.286	-7.951	1.00	0.00
ATOM	1416	CB	LYS	90	-6.165	0.929	-8.897	1.00	0.00
ATOM	1417	HB2	LYS	90	-6.682	-0.031	-8.913	1.00	0.00
ATOM	1418	HB3	LYS	90	-6.627	1.578	-8.153	1.00	0.00
ATOM	1419	CG	LYS	90	-6.263	1.579	-10.267	1.00	0.00
ATOM	1420	HG2	LYS	90	-5.680	0.988	-10.974	1.00	0.00
ATOM	1421	HG3	LYS	90	-7.309	1.583	-10.575	1.00	0.00
ATOM	1422	CD	LYS	90	-5.739	2.997	-10.242	1.00	0.00
ATOM	1423	HD2	LYS	90	-6.424	3.615	-9.661	1.00	0.00
ATOM	1424	HD3	LYS	90	-4.757	3.000	-9.769	1.00	0.00
ATOM	1425	CE	LYS	90	-5.624	3.558	-11.658	1.00	0.00
ATOM	1426	HE2	LYS	90	-5.199	2.789	-12.304	1.00	0.00
ATOM	1427	HE3	LYS	90	-6.622	3.817	-12.012	1.00	0.00
ATOM	1428	NZ	LYS	90	-4.766	4.755	-11.689	1.00	0.00
ATOM	1429	HZ1	LYS	90	-3.841	4.515	-11.362	1.00	0.00
ATOM	1430	HZ2	LYS	90	-4.708	5.103	-12.635	1.00	0.00
ATOM	1431	HZ3	LYS	90	-5.160	5.467	-11.092	1.00	0.00
ATOM	1432	C	LYS	90	-3.758	0.555	-9.620	1.00	0.00
ATOM	1433	O	LYS	90	-3.776	-0.419	-10.354	1.00	0.00
ATOM	1434	N	ASN	91	-2.954	1.604	-9.838	1.00	0.00

ATOM	1435	H	ASN	91	-3.051	2.419	-9.250	1.00	0.00
ATOM	1436	CA	ASN	91	-1.972	1.633	-10.885	1.00	0.00
ATOM	1437	HA	ASN	91	-2.293	0.996	-11.710	1.00	0.00
ATOM	1438	CB	ASN	91	-1.789	3.058	-11.410	1.00	0.00
ATOM	1439	HB2	ASN	91	-0.911	3.046	-12.055	1.00	0.00
ATOM	1440	HB3	ASN	91	-2.658	3.376	-11.986	1.00	0.00
ATOM	1441	CG	ASN	91	-1.558	4.049	-10.301	1.00	0.00
ATOM	1442	OD1	ASN	91	-0.916	3.748	-9.324	1.00	0.00
ATOM	1443	ND2	ASN	91	-2.143	5.222	-10.453	1.00	0.00
ATOM	1444	HD21	ASN	91	-2.030	5.934	-9.746	1.00	0.00
ATOM	1445	HD22	ASN	91	-2.701	5.401	-11.276	1.00	0.00
ATOM	1446	C	ASN	91	-0.634	1.110	-10.372	1.00	0.00
ATOM	1447	O	ASN	91	0.362	1.145	-11.086	1.00	0.00
ATOM	1448	N	LEU	92	-0.599	0.707	-9.106	1.00	0.00
ATOM	1449	H	LEU	92	-1.418	0.836	-8.529	1.00	0.00
ATOM	1450	CA	LEU	92	0.583	0.157	-8.498	1.00	0.00
ATOM	1451	HA	LEU	92	1.455	0.752	-8.768	1.00	0.00
ATOM	1452	CB	LEU	92	0.435	0.168	-6.970	1.00	0.00
ATOM	1453	HB2	LEU	92	-0.642	0.185	-6.805	1.00	0.00
ATOM	1454	HB3	LEU	92	0.853	-0.745	-6.545	1.00	0.00
ATOM	1455	CG	LEU	92	1.075	1.386	-6.294	1.00	0.00
ATOM	1456	HG	LEU	92	0.893	2.270	-6.905	1.00	0.00



ATOM	1457	CD1 LEU	92	0.474	1.596	-4.902	1.00	0.00
ATOM	1458	HD11 LEU	92	0.656	0.712	-4.290	1.00	0.00
ATOM	1459	HD12 LEU	92	0.937	2.464	-4.433	1.00	0.00
ATOM	1460	HD13 LEU	92	-0.600	1.761	-4.991	1.00	0.00
ATOM	1461	CD2 LEU	92	2.591	1.242	-6.225	1.00	0.00
ATOM	1462	HD21 LEU	92	2.994	1.151	-7.234	1.00	0.00
ATOM	1463	HD22 LEU	92	3.018	2.120	-5.741	1.00	0.00
ATOM	1464	HD23 LEU	92	2.846	0.351	-5.651	1.00	0.00
ATOM	1465	C LEU	92	0.839	-1.242	-9.028	1.00	0.00
ATOM	1466	O LEU	92	1.921	-1.501	-9.513	1.00	0.00
ATOM	1467	N PRO	93	-0.177	-2.119	-9.017	1.00	0.00
ATOM	1468	CD PRO	93	-1.521	-1.868	-8.524	1.00	0.00
ATOM	1469	HD2 PRO	93	-1.982	-1.138	-9.189	1.00	0.00
ATOM	1470	HD3 PRO	93	-1.429	-1.442	-7.525	1.00	0.00
ATOM	1471	CG PRO	93	-2.252	-3.193	-8.521	1.00	0.00
ATOM	1472	HG2 PRO	93	-3.092	-3.142	-9.214	1.00	0.00
ATOM	1473	HG3 PRO	93	-2.623	-3.397	-7.517	1.00	0.00
ATOM	1474	CB PRO	93	-1.234	-4.251	-8.953	1.00	0.00
ATOM	1475	HB2 PRO	93	-1.645	-4.926	-9.704	1.00	0.00
ATOM	1476	HB3 PRO	93	-0.896	-4.828	-8.093	1.00	0.00
ATOM	1477	CA PRO	93	-0.065	-3.465	-9.546	1.00	0.00
ATOM	1478	HA PRO	93	0.852	-3.905	-9.153	1.00	0.00

ATOM	1479	C	PRO	93	-0.030	-3.495	-11.064	1.00	0.00
ATOM	1480	O	PRO	93	0.093	-4.562	-11.661	1.00	0.00
ATOM	1481	N	ASN	94	-0.137	-2.312	-11.674	1.00	0.00
ATOM	1482	H	ASN	94	-0.240	-1.473	-11.121	1.00	0.00
ATOM	1483	CA	ASN	94	-0.106	-2.186	-13.101	1.00	0.00
ATOM	1484	HA	ASN	94	-0.543	-3.071	-13.564	1.00	0.00
ATOM	1485	CB	ASN	94	-0.911	-0.960	-13.535	1.00	0.00
ATOM	1486	HB2	ASN	94	-0.681	-0.125	-12.874	1.00	0.00
ATOM	1487	HB3	ASN	94	-0.631	-0.702	-14.556	1.00	0.00
ATOM	1488	CG	ASN	94	-2.400	-1.215	-13.492	1.00	0.00
ATOM	1489	OD1	ASN	94	-2.876	-2.335	-13.425	1.00	0.00
ATOM	1490	ND2	ASN	94	-3.157	-0.133	-13.524	1.00	0.00
ATOM	1491	HD21	ASN	94	-4.163	-0.223	-13.499	1.00	0.00
ATOM	1492	HD22	ASN	94	-2.727	0.779	-13.574	1.00	0.00
ATOM	1493	C	ASN	94	1.323	-2.023	-13.577	1.00	0.00
ATOM	1494	O	ASN	94	1.710	-2.566	-14.604	1.00	0.00
ATOM	1495	N	VAL	95	2.105	-1.250	-12.821	1.00	0.00
ATOM	1496	H	VAL	95	1.709	-0.771	-12.025	1.00	0.00
ATOM	1497	CA	VAL	95	3.498	-1.010	-13.144	1.00	0.00
ATOM	1498	HA	VAL	95	3.759	-1.375	-14.138	1.00	0.00
ATOM	1499	CB	VAL	95	3.787	0.491	-13.082	1.00	0.00
ATOM	1500	HB	VAL	95	3.652	0.831	-12.055	1.00	0.00

ATOM	1501	CG1 VAL	95	5.214	0.793	-13.535	1.00	0.00
ATOM	1502	HG11 VAL	95	5.349	0.453	-14.562	1.00	0.00
ATOM	1503	HG12 VAL	95	5.393	1.866	-13.481	1.00	0.00
ATOM	1504	HG13 VAL	95	5.919	0.274	-12.886	1.00	0.00
ATOM	1505	CG2 VAL	95	2.785	1.269	-13.947	1.00	0.00
ATOM	1506	HG21 VAL	95	1.773	1.088	-13.583	1.00	0.00
ATOM	1507	HG22 VAL	95	3.006	2.334	-13.891	1.00	0.00
ATOM	1508	HG23 VAL	95	2.863	0.936	-14.982	1.00	0.00
ATOM	1509	C VAL	95	4.395	-1.801	-12.204	1.00	0.00
ATOM	1510	O VAL	95	5.602	-1.867	-12.386	1.00	0.00
ATOM	1511	N CYX	96	3.790	-2.460	-11.220	1.00	0.00
ATOM	1512	H CYX	96	2.793	-2.348	-11.108	1.00	0.00
ATOM	1513	CA CYX	96	4.499	-3.252	-10.255	1.00	0.00
ATOM	1514	HA CYX	96	5.538	-3.348	-10.570	1.00	0.00
ATOM	1515	CB CYX	96	4.467	-2.627	-8.860	1.00	0.00
ATOM	1516	HB2 CYX	96	3.464	-2.719	-8.443	1.00	0.00
ATOM	1517	HB3 CYX	96	5.177	-3.143	-8.214	1.00	0.00
ATOM	1518	SG CYX	96	4.888	-0.892	-8.825	1.00	0.00
ATOM	1519	C CYX	96	3.919	-4.628	-10.275	1.00	0.00
ATOM	1520	O CYX	96	3.793	-5.162	-9.199	1.00	0.00
ATOM	1521	N ASN	97	3.542	-5.151	-11.453	1.00	0.00
ATOM	1522	H ASN	97	3.671	-4.585	-12.279	1.00	0.00

ATOM	1523	CA	ASN	97	2.965	-6.469	-11.608	1.00	0.00
ATOM	1524	HA	ASN	97	1.878	-6.394	-11.633	1.00	0.00
ATOM	1525	CB	ASN	97	3.439	-7.117	-12.909	1.00	0.00
ATOM	1526	HB2	ASN	97	4.421	-6.736	-13.189	1.00	0.00
ATOM	1527	HB3	ASN	97	3.501	-8.193	-12.744	1.00	0.00
ATOM	1528	CG	ASN	97	2.483	-6.859	-14.041	1.00	0.00
ATOM	1529	OD1	ASN	97	1.752	-7.729	-14.484	1.00	0.00
ATOM	1530	ND2	ASN	97	2.473	-5.623	-14.490	1.00	0.00
ATOM	1531	HD21	ASN	97	1.857	-5.370	-15.250	1.00	0.00
ATOM	1532	HD22	ASN	97	3.081	-4.933	-14.073	1.00	0.00
ATOM	1533	C	ASN	97	3.361	-7.388	-10.454	1.00	0.00
ATOM	1534	O	ASN	97	4.464	-7.935	-10.448	1.00	0.00
ATOM	1535	N	MET	98	2.492	-7.467	-9.449	1.00	0.00
ATOM	1536	H	MET	98	1.617	-6.965	-9.501	1.00	0.00
ATOM	1537	CA	MET	98	2.792	-8.197	-8.238	1.00	0.00
ATOM	1538	HA	MET	98	3.640	-8.858	-8.420	1.00	0.00
ATOM	1539	CB	MET	98	3.141	-7.262	-7.082	1.00	0.00
ATOM	1540	HB2	MET	98	3.480	-7.862	-6.237	1.00	0.00
ATOM	1541	HB3	MET	98	3.943	-6.596	-7.400	1.00	0.00
ATOM	1542	CG	MET	98	1.930	-6.435	-6.664	1.00	0.00
ATOM	1543	HG2	MET	98	1.066	-6.784	-7.229	1.00	0.00
ATOM	1544	HG3	MET	98	1.756	-6.596	-5.600	1.00	0.00

ATOM	1545	SD	MET	98	2.163	-4.690	-6.964	1.00	0.00
ATOM	1546	CE	MET	98	0.830	-3.995	-6.030	1.00	0.00
ATOM	1547	HE1	MET	98	0.938	-4.272	-4.981	1.00	0.00
ATOM	1548	HE2	MET	98	0.848	-2.909	-6.123	1.00	0.00
ATOM	1549	HE3	MET	98	-0.118	-4.376	-6.410	1.00	0.00
ATOM	1550	C	MET	98	1.617	-9.078	-7.895	1.00	0.00
ATOM	1551	O	MET	98	1.546	-9.646	-6.815	1.00	0.00
ATOM	1552	N	LYS	99	0.633	-9.158	-8.799	1.00	0.00
ATOM	1553	H	LYS	99	0.680	-8.549	-9.604	1.00	0.00
ATOM	1554	CA	LYS	99	-0.556	-9.942	-8.607	1.00	0.00
ATOM	1555	HA	LYS	99	-0.356	-10.768	-7.924	1.00	0.00
ATOM	1556	CB	LYS	99	-1.664	-9.065	-8.005	1.00	0.00
ATOM	1557	HB2	LYS	99	-1.594	-9.116	-6.919	1.00	0.00
ATOM	1558	HB3	LYS	99	-1.507	-8.037	-8.331	1.00	0.00
ATOM	1559	CG	LYS	99	-3.056	-9.536	-8.450	1.00	0.00
ATOM	1560	HG2	LYS	99	-2.991	-10.570	-8.790	1.00	0.00
ATOM	1561	HG3	LYS	99	-3.740	-9.475	-7.604	1.00	0.00
ATOM	1562	CD	LYS	99	-3.579	-8.649	-9.599	1.00	0.00
ATOM	1563	HD2	LYS	99	-4.296	-7.937	-9.191	1.00	0.00
ATOM	1564	HD3	LYS	99	-2.738	-8.109	-10.033	1.00	0.00
ATOM	1565	CE	LYS	99	-4.262	-9.498	-10.690	1.00	0.00
ATOM	1566	HE2	LYS	99	-4.099	-10.552	-10.463	1.00	0.00

ATOM	1567	HE3	LYS	99	-5.331	-9.285	-10.678	1.00	0.00
ATOM	1568	NZ	LYS	99	-3.714	-9.192	-12.029	1.00	0.00
ATOM	1569	HZ1	LYS	99	-2.724	-9.390	-12.041	1.00	0.00
ATOM	1570	HZ2	LYS	99	-4.179	-9.762	-12.721	1.00	0.00
ATOM	1571	HZ3	LYS	99	-3.865	-8.216	-12.240	1.00	0.00
ATOM	1572	C	LYS	99	-0.892	-10.633	-9.909	1.00	0.00
ATOM	1573	O	LYS	99	-1.581	-10.100	-10.755	1.00	0.00
ATOM	1574	N	GLN	100	-0.387	-11.825	-10.118	1.00	0.00
ATOM	1575	H	GLN	100	0.256	-12.230	-9.453	1.00	0.00
ATOM	1576	CA	GLN	100	-0.683	-12.566	-11.322	1.00	0.00
ATOM	1577	HA	GLN	100	-0.615	-11.913	-12.192	1.00	0.00
ATOM	1578	CB	GLN	100	0.325	-13.709	-11.487	1.00	0.00
ATOM	1579	HB2	GLN	100	1.234	-13.466	-10.937	1.00	0.00
ATOM	1580	HB3	GLN	100	-0.107	-14.627	-11.087	1.00	0.00
ATOM	1581	CG	GLN	100	0.663	-13.907	-12.969	1.00	0.00
ATOM	1582	HG2	GLN	100	0.796	-12.915	-13.400	1.00	0.00
ATOM	1583	HG3	GLN	100	1.585	-14.478	-13.080	1.00	0.00
ATOM	1584	CD	GLN	100	-0.447	-14.623	-13.729	1.00	0.00
ATOM	1585	OE1	GLN	100	-1.507	-14.932	-13.223	1.00	0.00
ATOM	1586	NE2	GLN	100	-0.183	-14.941	-14.974	1.00	0.00
ATOM	1587	HE21	GLN	100	-0.880	-15.417	-15.529	1.00	0.00
ATOM	1588	HE22	GLN	100	0.716	-14.709	-15.372	1.00	0.00

ATOM	1589	C	GLN	100	-2.107	-13.097	-11.284	1.00	0.00
ATOM	1590	O	GLN	100	-2.868	-12.886	-12.221	1.00	0.00
ATOM	1591	N	ILE	101	-2.458	-13.740	-10.170	1.00	0.00
ATOM	1592	H	ILE	101	-1.760	-13.929	-9.465	1.00	0.00
ATOM	1593	CA	ILE	101	-3.775	-14.290	-9.990	1.00	0.00
ATOM	1594	HA	ILE	101	-4.084	-14.903	-10.837	1.00	0.00
ATOM	1595	CB	ILE	101	-3.853	-15.124	-8.698	1.00	0.00
ATOM	1596	HB	ILE	101	-3.427	-16.109	-8.888	1.00	0.00
ATOM	1597	CG2	ILE	101	-3.084	-14.447	-7.574	1.00	0.00
ATOM	1598	HG21	ILE	101	-3.510	-13.462	-7.384	1.00	0.00
ATOM	1599	HG22	ILE	101	-3.152	-15.053	-6.671	1.00	0.00
ATOM	1600	HG23	ILE	101	-2.038	-14.341	-7.862	1.00	0.00
ATOM	1601	CG1	ILE	101	-5.308	-15.399	-8.284	1.00	0.00
ATOM	1602	HG12	ILE	101	-5.327	-16.259	-7.614	1.00	0.00
ATOM	1603	HG13	ILE	101	-5.697	-14.525	-7.763	1.00	0.00
ATOM	1604	CD1	ILE	101	-6.177	-15.690	-9.514	1.00	0.00
ATOM	1605	HD11	ILE	101	-5.788	-16.565	-10.035	1.00	0.00
ATOM	1606	HD12	ILE	101	-7.202	-15.882	-9.198	1.00	0.00
ATOM	1607	HD13	ILE	101	-6.159	-14.831	-10.184	1.00	0.00
ATOM	1608	C	ILE	101	-4.806	-13.159	-10.053	1.00	0.00
ATOM	1609	O	ILE	101	-5.330	-12.825	-11.110	1.00	0.00
ATOM	1610	N	GLY	102	-5.105	-12.544	-8.904	1.00	0.00

ATOM	1611	H	GLY	102	-4.612	-12.810	-8.063	1.00	0.00
ATOM	1612	CA	GLY	102	-6.103	-11.515	-8.812	1.00	0.00
ATOM	1613	HA2	GLY	102	-5.636	-10.553	-9.023	1.00	0.00
ATOM	1614	HA3	GLY	102	-6.879	-11.712	-9.552	1.00	0.00
ATOM	1615	C	GLY	102	-6.731	-11.465	-7.446	1.00	0.00
ATOM	1616	O	GLY	102	-7.829	-11.931	-7.211	1.00	0.00
ATOM	1617	N	THR	103	-6.018	-10.873	-6.508	1.00	0.00
ATOM	1618	H	THR	103	-5.102	-10.526	-6.753	1.00	0.00
ATOM	1619	CA	THR	103	-6.451	-10.762	-5.120	1.00	0.00
ATOM	1620	HA	THR	103	-7.009	-11.674	-4.906	1.00	0.00
ATOM	1621	CB	THR	103	-5.211	-10.725	-4.223	1.00	0.00
ATOM	1622	HB	THR	103	-5.227	-9.796	-3.654	1.00	0.00
ATOM	1623	CG2	THR	103	-5.174	-11.910	-3.261	1.00	0.00
ATOM	1624	HG21	THR	103	-5.158	-12.840	-3.830	1.00	0.00
ATOM	1625	HG22	THR	103	-4.279	-11.848	-2.642	1.00	0.00
ATOM	1626	HG23	THR	103	-6.058	-11.890	-2.624	1.00	0.00
ATOM	1627	OG1	THR	103	-4.059	-10.902	-5.047	1.00	0.00
ATOM	1628	HG1	THR	103	-3.269	-10.882	-4.502	1.00	0.00
ATOM	1629	C	THR	103	-7.330	-9.538	-4.954	1.00	0.00
ATOM	1630	O	THR	103	-8.448	-9.635	-4.450	1.00	0.00
ATOM	1631	N	CYX	104	-6.842	-8.379	-5.417	1.00	0.00
ATOM	1632	H	CYX	104	-5.883	-8.342	-5.732	1.00	0.00



ATOM	1633	CA	CYX	104	-7.604	-7.146	-5.388	1.00	0.00
ATOM	1634	HA	CYX	104	-8.643	-7.358	-5.136	1.00	0.00
ATOM	1635	CB	CYX	104	-7.030	-6.191	-4.337	1.00	0.00
ATOM	1636	HB2	CYX	104	-7.753	-5.403	-4.128	1.00	0.00
ATOM	1637	HB3	CYX	104	-6.820	-6.743	-3.421	1.00	0.00
ATOM	1638	SG	CYX	104	-5.455	-5.344	-4.753	1.00	0.00
ATOM	1639	C	CYX	104	-7.640	-6.544	-6.785	1.00	0.00
ATOM	1640	O	CYX	104	-7.029	-5.517	-7.054	1.00	0.00
ATOM	1641	N	PRO	105	-8.306	-7.221	-7.722	1.00	0.00
ATOM	1642	CD	PRO	105	-9.039	-8.461	-7.525	1.00	0.00
ATOM	1643	HD2	PRO	105	-9.890	-8.246	-6.878	1.00	0.00
ATOM	1644	HD3	PRO	105	-8.374	-9.167	-7.027	1.00	0.00
ATOM	1645	CG	PRO	105	-9.463	-8.940	-8.911	1.00	0.00
ATOM	1646	HG2	PRO	105	-10.552	-8.956	-8.965	1.00	0.00
ATOM	1647	HG3	PRO	105	-9.078	-9.947	-9.074	1.00	0.00
ATOM	1648	CB	PRO	105	-8.867	-7.957	-9.921	1.00	0.00
ATOM	1649	HB2	PRO	105	-9.592	-7.647	-10.673	1.00	0.00
ATOM	1650	HB3	PRO	105	-8.001	-8.399	-10.413	1.00	0.00
ATOM	1651	CA	PRO	105	-8.435	-6.752	-9.088	1.00	0.00
ATOM	1652	HA	PRO	105	-7.443	-6.472	-9.443	1.00	0.00
ATOM	1653	C	PRO	105	-9.372	-5.559	-9.207	1.00	0.00
ATOM	1654	O	PRO	105	-10.320	-5.562	-9.982	1.00	0.00

ATOM	1655	N	PHE	106	-9.123	-4.534	-8.402	1.00	0.00
ATOM	1656	H	PHE	106	-8.323	-4.583	-7.788	1.00	0.00
ATOM	1657	CA	PHE	106	-9.929	-3.347	-8.376	1.00	0.00
ATOM	1658	HA	PHE	106	-10.965	-3.570	-8.632	1.00	0.00
ATOM	1659	CB	PHE	106	-9.887	-2.788	-6.958	1.00	0.00
ATOM	1660	HB2	PHE	106	-10.819	-2.285	-6.701	1.00	0.00
ATOM	1661	HB3	PHE	106	-9.719	-3.615	-6.268	1.00	0.00
ATOM	1662	CG	PHE	106	-8.772	-1.787	-6.716	1.00	0.00
ATOM	1663	CD1	PHE	106	-7.448	-2.220	-6.553	1.00	0.00
ATOM	1664	HD1	PHE	106	-7.226	-3.287	-6.598	1.00	0.00
ATOM	1665	CE1	PHE	106	-6.419	-1.301	-6.335	1.00	0.00
ATOM	1666	HE1	PHE	106	-5.387	-1.639	-6.236	1.00	0.00
ATOM	1667	CZ	PHE	106	-6.720	0.057	-6.245	1.00	0.00
ATOM	1668	HZ	PHE	106	-5.933	0.772	-6.007	1.00	0.00
ATOM	1669	CE2	PHE	106	-8.029	0.503	-6.459	1.00	0.00
ATOM	1670	HE2	PHE	106	-8.248	1.570	-6.442	1.00	0.00
ATOM	1671	CD2	PHE	106	-9.053	-0.415	-6.694	1.00	0.00
ATOM	1672	HD2	PHE	106	-10.072	-0.065	-6.861	1.00	0.00
ATOM	1673	C	PHE	106	-9.393	-2.314	-9.320	1.00	0.00
ATOM	1674	O	PHE	106	-8.196	-2.347	-9.596	1.00	0.00
ATOM	1675	N	ILE	107	-10.254	-1.389	-9.747	1.00	0.00
ATOM	1676	H	ILE	107	-11.214	-1.440	-9.438	1.00	0.00

ATOM	1677	CA	ILE	107	-9.890	-0.350	-10.693	1.00	0.00
ATOM	1678	HA	ILE	107	-9.282	0.428	-10.232	1.00	0.00
ATOM	1679	CB	ILE	107	-9.145	-0.927	-11.917	1.00	0.00
ATOM	1680	HB	ILE	107	-9.459	-0.386	-12.810	1.00	0.00
ATOM	1681	CG2	ILE	107	-7.625	-0.785	-11.740	1.00	0.00
ATOM	1682	HG21	ILE	107	-7.311	-1.327	-10.848	1.00	0.00
ATOM	1683	HG22	ILE	107	-7.117	-1.197	-12.612	1.00	0.00
ATOM	1684	HG23	ILE	107	-7.368	0.269	-11.635	1.00	0.00
ATOM	1685	CG1	ILE	107	-9.545	-2.394	-12.192	1.00	0.00
ATOM	1686	HG12	ILE	107	-8.834	-3.048	-11.686	1.00	0.00
ATOM	1687	HG13	ILE	107	-10.543	-2.562	-11.788	1.00	0.00
ATOM	1688	CD1	ILE	107	-9.543	-2.698	-13.670	1.00	0.00
ATOM	1689	HD11	ILE	107	-8.545	-2.531	-14.075	1.00	0.00
ATOM	1690	HD12	ILE	107	-9.829	-3.738	-13.828	1.00	0.00
ATOM	1691	HD13	ILE	107	-10.254	-2.046	-14.177	1.00	0.00
ATOM	1692	C	ILE	107	-11.122	0.411	-11.131	1.00	0.00
ATOM	1693	O	ILE	107	-11.039	1.624	-11.266	1.00	0.00
ATOM	1694	N	ALA	108	-12.237	-0.298	-11.343	1.00	0.00
ATOM	1695	H	ALA	108	-12.191	-1.306	-11.292	1.00	0.00
ATOM	1696	CA	ALA	108	-13.492	0.312	-11.718	1.00	0.00
ATOM	1697	HA	ALA	108	-13.331	1.031	-12.521	1.00	0.00
ATOM	1698	CB	ALA	108	-14.447	-0.771	-12.217	1.00	0.00

ATOM	1699	HB1	ALA	108	-14.626	-1.494	-11.421	1.00	0.00
ATOM	1700	HB2	ALA	108	-15.392	-0.315	-12.512	1.00	0.00
ATOM	1701	HB3	ALA	108	-14.006	-1.278	-13.075	1.00	0.00
ATOM	1702	C	ALA	108	-14.075	1.094	-10.542	1.00	0.00
ATOM	1703	O	ALA	108	-15.114	0.735	-10.001	1.00	0.00
ATOM	1704	N	ILE	109	-13.386	2.148	-10.134	1.00	0.00
ATOM	1705	H	ILE	109	-12.500	2.316	-10.588	1.00	0.00
ATOM	1706	CA	ILE	109	-13.748	2.979	-9.009	1.00	0.00
ATOM	1707	HA	ILE	109	-14.795	2.858	-8.729	1.00	0.00
ATOM	1708	CB	ILE	109	-12.855	2.695	-7.789	1.00	0.00
ATOM	1709	HB	ILE	109	-12.721	3.618	-7.226	1.00	0.00
ATOM	1710	CG2	ILE	109	-13.499	1.633	-6.884	1.00	0.00
ATOM	1711	HG21	ILE	109	-13.633	0.709	-7.446	1.00	0.00
ATOM	1712	HG22	ILE	109	-12.853	1.445	-6.027	1.00	0.00
ATOM	1713	HG23	ILE	109	-14.468	1.990	-6.537	1.00	0.00
ATOM	1714	CG1	ILE	109	-11.430	2.285	-8.188	1.00	0.00
ATOM	1715	HG12	ILE	109	-10.897	1.951	-7.298	1.00	0.00
ATOM	1716	HG13	ILE	109	-11.487	1.466	-8.905	1.00	0.00
ATOM	1717	CD1	ILE	109	-10.686	3.457	-8.815	1.00	0.00
ATOM	1718	HD11	ILE	109	-10.628	4.276	-8.099	1.00	0.00
ATOM	1719	HD12	ILE	109	-9.679	3.143	-9.090	1.00	0.00
ATOM	1720	HD13	ILE	109	-11.218	3.791	-9.706	1.00	0.00

ATOM	1721	C	ILE	109	-13.752	4.454	-9.440	1.00	0.00
ATOM	1722	O	ILE	109	-14.779	5.114	-9.254	1.00	0.00
ATOM	1723	OXT	ILE	109	-12.739	4.949	-9.968	1.00	0.00
TER									
ATOM	1724	S1	LIG	110	20.756	-8.510	-8.217	1.00	0.00
ATOM	1725	O1	LIG	110	20.927	-9.884	-7.373	1.00	0.00
ATOM	1726	O2	LIG	110	22.108	-8.645	-9.090	1.00	0.00
ATOM	1727	H26	LIG	110	22.877	-8.441	-8.535	1.00	0.00
ATOM	1728	O3	LIG	110	19.659	-8.627	-9.145	1.00	0.00
ATOM	1729	O4	LIG	110	20.869	-7.383	-7.314	1.00	0.00
ATOM	1730	C1	LIG	110	18.704	-15.171	-2.513	1.00	0.00
ATOM	1731	H1	LIG	110	18.901	-15.939	-3.272	1.00	0.00
ATOM	1732	H2	LIG	110	19.641	-15.048	-1.954	1.00	0.00
ATOM	1733	C2	LIG	110	17.611	-15.669	-1.561	1.00	0.00
ATOM	1734	H3	LIG	110	16.674	-15.792	-2.119	1.00	0.00
ATOM	1735	H4	LIG	110	17.413	-14.900	-0.803	1.00	0.00
ATOM	1736	C3	LIG	110	18.354	-13.851	-3.209	1.00	0.00
ATOM	1737	H5	LIG	110	18.159	-13.082	-2.450	1.00	0.00
ATOM	1738	H6	LIG	110	17.416	-13.974	-3.766	1.00	0.00
ATOM	1739	C4	LIG	110	17.959	-16.989	-0.863	1.00	0.00
ATOM	1740	H7	LIG	110	18.896	-16.865	-0.303	1.00	0.00
ATOM	1741	H8	LIG	110	18.158	-17.757	-1.620	1.00	0.00

ATOM	1742	C5	LIG	110	19.446	-13.354	-4.164	1.00	0.00
ATOM	1743	H9	LIG	110	20.385	-13.233	-3.609	1.00	0.00
ATOM	1744	H10	LIG	110	19.639	-14.120	-4.925	1.00	0.00
ATOM	1745	C6	LIG	110	16.866	-17.488	0.089	1.00	0.00
ATOM	1746	H11	LIG	110	15.929	-17.610	-0.470	1.00	0.00
ATOM	1747	H12	LIG	110	16.667	-16.719	0.847	1.00	0.00
ATOM	1748	C7	LIG	110	19.094	-12.033	-4.856	1.00	0.00
ATOM	1749	H13	LIG	110	18.154	-12.154	-5.409	1.00	0.00
ATOM	1750	H14	LIG	110	18.906	-11.265	-4.094	1.00	0.00
ATOM	1751	C8	LIG	110	17.213	-18.807	0.787	1.00	0.00
ATOM	1752	H15	LIG	110	17.411	-19.577	0.030	1.00	0.00
ATOM	1753	H16	LIG	110	18.150	-18.685	1.346	1.00	0.00
ATOM	1754	C9	LIG	110	20.192	-11.549	-5.813	1.00	0.00
ATOM	1755	H17	LIG	110	20.371	-12.300	-6.589	1.00	0.00
ATOM	1756	H18	LIG	110	21.133	-11.418	-5.268	1.00	0.00
ATOM	1757	C10	LIG	110	16.120	-19.307	1.739	1.00	0.00
ATOM	1758	H19	LIG	110	15.184	-19.429	1.181	1.00	0.00
ATOM	1759	H20	LIG	110	15.924	-18.538	2.497	1.00	0.00
ATOM	1760	C11	LIG	110	19.821	-10.237	-6.477	1.00	0.00
ATOM	1761	H21	LIG	110	18.912	-10.330	-7.077	1.00	0.00
ATOM	1762	H22	LIG	110	19.697	-9.433	-5.748	1.00	0.00
ATOM	1763	C12	LIG	110	16.477	-20.626	2.431	1.00	0.00

ATOM	1764	H23	LIG	110	17.391	-20.526	3.026	1.00	0.00
ATOM	1765	H24	LIG	110	15.679	-20.953	3.103	1.00	0.00
ATOM	1766	H25	LIG	110	16.644	-21.423	1.701	1.00	0.00
TER									
ATOM	1767	S1	LIG	111	17.036	-11.130	26.543	1.00	0.00
ATOM	1768	O1	LIG	111	16.242	-10.699	25.196	1.00	0.00
ATOM	1769	O2	LIG	111	16.152	-10.262	27.579	1.00	0.00
ATOM	1770	H26	LIG	111	16.386	-9.325	27.503	1.00	0.00
ATOM	1771	O3	LIG	111	16.783	-12.515	26.851	1.00	0.00
ATOM	1772	O4	LIG	111	18.383	-10.598	26.488	1.00	0.00
ATOM	1773	C1	LIG	111	14.711	-11.006	17.843	1.00	0.00
ATOM	1774	H1	LIG	111	13.653	-11.177	18.079	1.00	0.00
ATOM	1775	H2	LIG	111	14.835	-9.918	17.774	1.00	0.00
ATOM	1776	C2	LIG	111	15.034	-11.638	16.484	1.00	0.00
ATOM	1777	H3	LIG	111	14.910	-12.727	16.552	1.00	0.00
ATOM	1778	H4	LIG	111	16.093	-11.468	16.248	1.00	0.00
ATOM	1779	C3	LIG	111	15.577	-11.542	18.988	1.00	0.00
ATOM	1780	H5	LIG	111	16.636	-11.369	18.753	1.00	0.00
ATOM	1781	H6	LIG	111	15.455	-12.631	19.055	1.00	0.00
ATOM	1782	C4	LIG	111	14.169	-11.103	15.336	1.00	0.00
ATOM	1783	H7	LIG	111	14.294	-10.015	15.267	1.00	0.00
ATOM	1784	H8	LIG	111	13.111	-11.272	15.572	1.00	0.00

ATOM	1785	C5	LIG	111	15.252	-10.913	20.348	1.00	0.00
ATOM	1786	H9	LIG	111	15.372	-9.824	20.281	1.00	0.00
ATOM	1787	H10	LIG	111	14.195	-11.089	20.585	1.00	0.00
ATOM	1788	C6	LIG	111	14.492	-11.735	13.978	1.00	0.00
ATOM	1789	H11	LIG	111	14.368	-12.823	14.047	1.00	0.00
ATOM	1790	H12	LIG	111	15.551	-11.566	13.741	1.00	0.00
ATOM	1791	C7	LIG	111	16.122	-11.449	21.490	1.00	0.00
ATOM	1792	H13	LIG	111	16.003	-12.538	21.554	1.00	0.00
ATOM	1793	H14	LIG	111	17.179	-11.268	21.254	1.00	0.00
ATOM	1794	C8	LIG	111	13.628	-11.201	12.830	1.00	0.00
ATOM	1795	H15	LIG	111	12.568	-11.371	13.064	1.00	0.00
ATOM	1796	H16	LIG	111	13.751	-10.112	12.761	1.00	0.00
ATOM	1797	C9	LIG	111	15.783	-10.816	22.846	1.00	0.00
ATOM	1798	H17	LIG	111	14.736	-11.009	23.100	1.00	0.00
ATOM	1799	H18	LIG	111	15.906	-9.729	22.793	1.00	0.00
ATOM	1800	C10	LIG	111	13.949	-11.832	11.470	1.00	0.00
ATOM	1801	H19	LIG	111	13.826	-12.920	11.541	1.00	0.00
ATOM	1802	H20	LIG	111	15.007	-11.661	11.235	1.00	0.00
ATOM	1803	C11	LIG	111	16.664	-11.358	23.955	1.00	0.00
ATOM	1804	H21	LIG	111	16.538	-12.436	24.081	1.00	0.00
ATOM	1805	H22	LIG	111	17.719	-11.130	23.785	1.00	0.00
ATOM	1806	C12	LIG	111	13.079	-11.292	10.331	1.00	0.00



ATOM	1807	H23	LIG	111	13.207	-10.211	10.215	1.00	0.00
ATOM	1808	H24	LIG	111	13.335	-11.760	9.377	1.00	0.00
ATOM	1809	H25	LIG	111	12.018	-11.480	10.520	1.00	0.00
TER									
ATOM	1810	S1	LIG	112	-19.419	18.689	-26.943	1.00	0.00
ATOM	1811	O1	LIG	112	-19.642	18.067	-25.462	1.00	0.00
ATOM	1812	O2	LIG	112	-18.663	17.413	-27.581	1.00	0.00
ATOM	1813	H26	LIG	112	-17.755	17.369	-27.245	1.00	0.00
ATOM	1814	O3	LIG	112	-20.680	18.804	-27.632	1.00	0.00
ATOM	1815	O4	LIG	112	-18.499	19.805	-26.853	1.00	0.00
ATOM	1816	C1	LIG	112	-22.329	18.085	-18.441	1.00	0.00
ATOM	1817	H1	LIG	112	-22.778	17.100	-18.619	1.00	0.00
ATOM	1818	H2	LIG	112	-21.319	17.893	-18.056	1.00	0.00
ATOM	1819	C2	LIG	112	-23.142	18.826	-17.373	1.00	0.00
ATOM	1820	H3	LIG	112	-24.152	19.018	-17.757	1.00	0.00
ATOM	1821	H4	LIG	112	-22.693	19.812	-17.195	1.00	0.00
ATOM	1822	C3	LIG	112	-22.228	18.843	-19.769	1.00	0.00
ATOM	1823	H5	LIG	112	-21.776	19.828	-19.591	1.00	0.00
ATOM	1824	H6	LIG	112	-23.238	19.037	-20.152	1.00	0.00
ATOM	1825	C4	LIG	112	-23.244	18.070	-16.043	1.00	0.00
ATOM	1826	H7	LIG	112	-22.233	17.879	-15.658	1.00	0.00
ATOM	1827	H8	LIG	112	-23.691	17.084	-16.221	1.00	0.00

ATOM	1828	C5	LIG	112	-21.417	18.101	-20.837	1.00	0.00
ATOM	1829	H9	LIG	112	-20.407	17.904	-20.455	1.00	0.00
ATOM	1830	H10	LIG	112	-21.870	17.118	-21.019	1.00	0.00
ATOM	1831	C6	LIG	112	-24.057	18.811	-14.976	1.00	0.00
ATOM	1832	H11	LIG	112	-25.067	19.003	-15.361	1.00	0.00
ATOM	1833	H12	LIG	112	-23.609	19.797	-14.798	1.00	0.00
ATOM	1834	C7	LIG	112	-21.316	18.863	-22.163	1.00	0.00
ATOM	1835	H13	LIG	112	-22.326	19.061	-22.544	1.00	0.00
ATOM	1836	H14	LIG	112	-20.858	19.843	-21.982	1.00	0.00
ATOM	1837	C8	LIG	112	-24.159	18.056	-13.646	1.00	0.00
ATOM	1838	H15	LIG	112	-24.609	17.069	-13.823	1.00	0.00
ATOM	1839	H16	LIG	112	-23.149	17.863	-13.261	1.00	0.00
ATOM	1840	C9	LIG	112	-20.507	18.107	-23.226	1.00	0.00
ATOM	1841	H17	LIG	112	-20.969	17.135	-23.429	1.00	0.00
ATOM	1842	H18	LIG	112	-19.495	17.911	-22.858	1.00	0.00
ATOM	1843	C10	LIG	112	-24.973	18.795	-12.578	1.00	0.00
ATOM	1844	H19	LIG	112	-25.982	18.988	-12.963	1.00	0.00
ATOM	1845	H20	LIG	112	-24.523	19.780	-12.400	1.00	0.00
ATOM	1846	C11	LIG	112	-20.417	18.887	-24.524	1.00	0.00
ATOM	1847	H21	LIG	112	-21.404	19.063	-24.959	1.00	0.00
ATOM	1848	H22	LIG	112	-19.900	19.840	-24.390	1.00	0.00
ATOM	1849	C12	LIG	112	-25.069	18.032	-11.254	1.00	0.00

ATOM	1850	H23	LIG	112	-24.077	17.854	-10.827	1.00	0.00
ATOM	1851	H24	LIG	112	-25.654	18.586	-10.514	1.00	0.00
ATOM	1852	H25	LIG	112	-25.548	17.058	-11.392	1.00	0.00
TER									
ATOM	1853	S1	LIG	113	-23.363	-23.592	-11.157	1.00	0.00
ATOM	1854	O1	LIG	113	-22.498	-22.827	-12.296	1.00	0.00
ATOM	1855	O2	LIG	113	-24.788	-23.523	-11.913	1.00	0.00
ATOM	1856	H26	LIG	113	-25.143	-22.622	-11.859	1.00	0.00
ATOM	1857	O3	LIG	113	-22.997	-24.986	-11.103	1.00	0.00
ATOM	1858	O4	LIG	113	-23.404	-22.772	-9.963	1.00	0.00
ATOM	1859	C1	LIG	113	-16.152	-20.238	-15.383	1.00	0.00
ATOM	1860	H1	LIG	113	-16.405	-20.755	-16.317	1.00	0.00
ATOM	1861	H2	LIG	113	-16.598	-19.239	-15.458	1.00	0.00
ATOM	1862	C2	LIG	113	-14.628	-20.103	-15.277	1.00	0.00
ATOM	1863	H3	LIG	113	-14.181	-21.103	-15.202	1.00	0.00
ATOM	1864	H4	LIG	113	-14.374	-19.587	-14.342	1.00	0.00
ATOM	1865	C3	LIG	113	-16.782	-20.987	-14.204	1.00	0.00
ATOM	1866	H5	LIG	113	-16.531	-20.468	-13.269	1.00	0.00
ATOM	1867	H6	LIG	113	-16.333	-21.986	-14.128	1.00	0.00
ATOM	1868	C4	LIG	113	-13.994	-19.354	-16.455	1.00	0.00
ATOM	1869	H7	LIG	113	-14.441	-18.353	-16.529	1.00	0.00
ATOM	1870	H8	LIG	113	-14.249	-19.869	-17.390	1.00	0.00

ATOM	1871	C5	LIG	113	-18.305	-21.125	-14.310	1.00	0.00
ATOM	1872	H9	LIG	113	-18.755	-20.127	-14.389	1.00	0.00
ATOM	1873	H10	LIG	113	-18.558	-21.647	-15.242	1.00	0.00
ATOM	1874	C6	LIG	113	-12.471	-19.219	-16.350	1.00	0.00
ATOM	1875	H11	LIG	113	-12.025	-20.219	-16.275	1.00	0.00
ATOM	1876	H12	LIG	113	-12.217	-18.703	-15.415	1.00	0.00
ATOM	1877	C7	LIG	113	-18.933	-21.871	-13.128	1.00	0.00
ATOM	1878	H13	LIG	113	-18.481	-22.868	-13.049	1.00	0.00
ATOM	1879	H14	LIG	113	-18.685	-21.346	-12.197	1.00	0.00
ATOM	1880	C8	LIG	113	-11.837	-18.470	-17.527	1.00	0.00
ATOM	1881	H15	LIG	113	-12.090	-18.986	-18.464	1.00	0.00
ATOM	1882	H16	LIG	113	-12.284	-17.470	-17.603	1.00	0.00
ATOM	1883	C9	LIG	113	-20.457	-22.008	-13.250	1.00	0.00
ATOM	1884	H17	LIG	113	-20.714	-22.550	-14.166	1.00	0.00
ATOM	1885	H18	LIG	113	-20.917	-21.017	-13.322	1.00	0.00
ATOM	1886	C10	LIG	113	-10.313	-18.335	-17.424	1.00	0.00
ATOM	1887	H19	LIG	113	-9.868	-19.334	-17.348	1.00	0.00
ATOM	1888	H20	LIG	113	-10.061	-17.819	-16.489	1.00	0.00
ATOM	1889	C11	LIG	113	-21.052	-22.743	-12.064	1.00	0.00
ATOM	1890	H21	LIG	113	-20.660	-23.759	-11.980	1.00	0.00
ATOM	1891	H22	LIG	113	-20.883	-22.206	-11.127	1.00	0.00
ATOM	1892	C12	LIG	113	-9.690	-17.586	-18.605	1.00	0.00

ATOM	1893	H23	LIG	113	-10.092	-16.571	-18.686	1.00	0.00
ATOM	1894	H24	LIG	113	-8.605	-17.505	-18.500	1.00	0.00
ATOM	1895	H25	LIG	113	-9.895	-18.097	-19.551	1.00	0.00
TER									
ATOM	1896	S1	LIG	114	0.406	12.640	-20.513	1.00	0.00
ATOM	1897	O1	LIG	114	0.467	13.293	-19.030	1.00	0.00
ATOM	1898	O2	LIG	114	1.079	11.222	-20.131	1.00	0.00
ATOM	1899	H26	LIG	114	2.033	11.337	-20.005	1.00	0.00
ATOM	1900	O3	LIG	114	-0.960	12.358	-20.879	1.00	0.00
ATOM	1901	O4	LIG	114	1.290	13.378	-21.392	1.00	0.00
ATOM	1902	C1	LIG	114	-0.943	18.611	-13.907	1.00	0.00
ATOM	1903	H1	LIG	114	-1.385	17.851	-13.251	1.00	0.00
ATOM	1904	H2	LIG	114	0.124	18.648	-13.655	1.00	0.00
ATOM	1905	C2	LIG	114	-1.581	19.972	-13.604	1.00	0.00
ATOM	1906	H3	LIG	114	-2.648	19.936	-13.856	1.00	0.00
ATOM	1907	H4	LIG	114	-1.140	20.734	-14.260	1.00	0.00
ATOM	1908	C3	LIG	114	-1.103	18.174	-15.367	1.00	0.00
ATOM	1909	H5	LIG	114	-0.659	18.934	-16.024	1.00	0.00
ATOM	1910	H6	LIG	114	-2.171	18.140	-15.620	1.00	0.00
ATOM	1911	C4	LIG	114	-1.422	20.413	-12.144	1.00	0.00
ATOM	1912	H7	LIG	114	-0.354	20.451	-11.891	1.00	0.00
ATOM	1913	H8	LIG	114	-1.861	19.652	-11.487	1.00	0.00

ATOM	1914	C5	LIG	114	-0.468	16.812	-15.671	1.00	0.00
ATOM	1915	H9	LIG	114	0.599	16.844	-15.416	1.00	0.00
ATOM	1916	H10	LIG	114	-0.914	16.050	-15.018	1.00	0.00
ATOM	1917	C6	LIG	114	-2.060	21.773	-11.839	1.00	0.00
ATOM	1918	H11	LIG	114	-3.127	21.736	-12.092	1.00	0.00
ATOM	1919	H12	LIG	114	-1.619	22.535	-12.497	1.00	0.00
ATOM	1920	C7	LIG	114	-0.627	16.378	-17.132	1.00	0.00
ATOM	1921	H13	LIG	114	-1.694	16.349	-17.387	1.00	0.00
ATOM	1922	H14	LIG	114	-0.177	17.138	-17.785	1.00	0.00
ATOM	1923	C8	LIG	114	-1.901	22.214	-10.380	1.00	0.00
ATOM	1924	H15	LIG	114	-2.342	21.454	-9.721	1.00	0.00
ATOM	1925	H16	LIG	114	-0.834	22.251	-10.127	1.00	0.00
ATOM	1926	C9	LIG	114	0.007	15.011	-17.422	1.00	0.00
ATOM	1927	H17	LIG	114	-0.451	14.243	-16.790	1.00	0.00
ATOM	1928	H18	LIG	114	1.074	15.034	-17.178	1.00	0.00
ATOM	1929	C10	LIG	114	-2.539	23.575	-10.074	1.00	0.00
ATOM	1930	H19	LIG	114	-3.605	23.537	-10.328	1.00	0.00
ATOM	1931	H20	LIG	114	-2.097	24.334	-10.731	1.00	0.00
ATOM	1932	C11	LIG	114	-0.158	14.611	-18.876	1.00	0.00
ATOM	1933	H21	LIG	114	-1.211	14.525	-19.155	1.00	0.00
ATOM	1934	H22	LIG	114	0.343	15.312	-19.549	1.00	0.00
ATOM	1935	C12	LIG	114	-2.376	24.005	-8.613	1.00	0.00

ATOM	1936	H23	LIG	114	-1.318	24.084	-8.341	1.00	0.00
ATOM	1937	H24	LIG	114	-2.839	24.978	-8.430	1.00	0.00
ATOM	1938	H25	LIG	114	-2.838	23.283	-7.934	1.00	0.00
TER									
ATOM	1939	S1	LIG	115	11.892	-1.318	17.091	1.00	0.00
ATOM	1940	O1	LIG	115	12.752	-0.186	16.311	1.00	0.00
ATOM	1941	O2	LIG	115	11.579	-0.449	18.416	1.00	0.00
ATOM	1942	H26	LIG	115	12.376	-0.393	18.965	1.00	0.00
ATOM	1943	O3	LIG	115	10.626	-1.526	16.432	1.00	0.00
ATOM	1944	O4	LIG	115	12.763	-2.425	17.429	1.00	0.00
ATOM	1945	C1	LIG	115	16.502	2.615	10.428	1.00	0.00
ATOM	1946	H1	LIG	115	15.876	3.516	10.469	1.00	0.00
ATOM	1947	H2	LIG	115	17.365	2.816	11.076	1.00	0.00
ATOM	1948	C2	LIG	115	16.989	2.403	8.990	1.00	0.00
ATOM	1949	H3	LIG	115	16.127	2.203	8.342	1.00	0.00
ATOM	1950	H4	LIG	115	17.615	1.502	8.949	1.00	0.00
ATOM	1951	C3	LIG	115	15.714	1.426	10.989	1.00	0.00
ATOM	1952	H5	LIG	115	16.341	0.526	10.950	1.00	0.00
ATOM	1953	H6	LIG	115	14.852	1.225	10.338	1.00	0.00
ATOM	1954	C4	LIG	115	17.779	3.590	8.427	1.00	0.00
ATOM	1955	H7	LIG	115	18.643	3.790	9.075	1.00	0.00
ATOM	1956	H8	LIG	115	17.154	4.492	8.469	1.00	0.00

ATOM	1957	C5	LIG	115	15.223	1.640	12.425	1.00	0.00
ATOM	1958	H9	LIG	115	16.083	1.843	13.076	1.00	0.00
ATOM	1959	H10	LIG	115	14.593	2.537	12.464	1.00	0.00
ATOM	1960	C6	LIG	115	18.266	3.379	6.989	1.00	0.00
ATOM	1961	H11	LIG	115	17.403	3.179	6.342	1.00	0.00
ATOM	1962	H12	LIG	115	18.891	2.477	6.948	1.00	0.00
ATOM	1963	C7	LIG	115	14.438	0.448	12.983	1.00	0.00
ATOM	1964	H13	LIG	115	13.579	0.243	12.331	1.00	0.00
ATOM	1965	H14	LIG	115	15.070	-0.449	12.949	1.00	0.00
ATOM	1966	C8	LIG	115	19.055	4.566	6.426	1.00	0.00
ATOM	1967	H15	LIG	115	18.431	5.469	6.466	1.00	0.00
ATOM	1968	H16	LIG	115	19.918	4.767	7.075	1.00	0.00
ATOM	1969	C9	LIG	115	13.948	0.675	14.420	1.00	0.00
ATOM	1970	H17	LIG	115	13.298	1.556	14.460	1.00	0.00
ATOM	1971	H18	LIG	115	14.799	0.873	15.079	1.00	0.00
ATOM	1972	C10	LIG	115	19.543	4.356	4.988	1.00	0.00
ATOM	1973	H19	LIG	115	18.680	4.155	4.342	1.00	0.00
ATOM	1974	H20	LIG	115	20.168	3.455	4.948	1.00	0.00
ATOM	1975	C11	LIG	115	13.181	-0.521	14.949	1.00	0.00
ATOM	1976	H21	LIG	115	12.291	-0.728	14.351	1.00	0.00
ATOM	1977	H22	LIG	115	13.807	-1.417	14.995	1.00	0.00
ATOM	1978	C12	LIG	115	20.330	5.548	4.435	1.00	0.00



ATOM	1979	H23	LIG	115	21.218	5.751	5.042	1.00	0.00
ATOM	1980	H24	LIG	115	20.664	5.365	3.410	1.00	0.00
ATOM	1981	H25	LIG	115	19.719	6.456	4.428	1.00	0.00
TER									
ATOM	1982	S1	LIG	116	24.340	1.745	-16.820	1.00	0.00
ATOM	1983	O1	LIG	116	23.954	2.141	-15.296	1.00	0.00
ATOM	1984	O2	LIG	116	24.743	3.229	-17.313	1.00	0.00
ATOM	1985	H26	LIG	116	23.942	3.759	-17.443	1.00	0.00
ATOM	1986	O3	LIG	116	25.551	0.964	-16.843	1.00	0.00
ATOM	1987	O4	LIG	116	23.143	1.310	-17.513	1.00	0.00
ATOM	1988	C1	LIG	116	21.922	0.643	-8.215	1.00	0.00
ATOM	1989	H1	LIG	116	22.779	1.224	-7.855	1.00	0.00
ATOM	1990	H2	LIG	116	21.090	1.353	-8.306	1.00	0.00
ATOM	1991	C2	LIG	116	21.562	-0.426	-7.175	1.00	0.00
ATOM	1992	H3	LIG	116	22.393	-1.136	-7.084	1.00	0.00
ATOM	1993	H4	LIG	116	20.704	-1.008	-7.536	1.00	0.00
ATOM	1994	C3	LIG	116	22.247	0.066	-9.597	1.00	0.00
ATOM	1995	H5	LIG	116	21.387	-0.515	-9.959	1.00	0.00
ATOM	1996	H6	LIG	116	23.077	-0.647	-9.505	1.00	0.00
ATOM	1997	C4	LIG	116	21.235	0.149	-5.792	1.00	0.00
ATOM	1998	H7	LIG	116	20.402	0.859	-5.883	1.00	0.00
ATOM	1999	H8	LIG	116	22.092	0.733	-5.432	1.00	0.00

ATOM	2000	C5	LIG	116	22.609	1.132	-10.636	1.00	0.00
ATOM	2001	H9	LIG	116	21.781	1.847	-10.727	1.00	0.00
ATOM	2002	H10	LIG	116	23.471	1.710	-10.277	1.00	0.00
ATOM	2003	C6	LIG	116	20.876	-0.918	-4.752	1.00	0.00
ATOM	2004	H11	LIG	116	21.708	-1.628	-4.661	1.00	0.00
ATOM	2005	H12	LIG	116	20.018	-1.501	-5.113	1.00	0.00
ATOM	2006	C7	LIG	116	22.931	0.552	-12.018	1.00	0.00
ATOM	2007	H13	LIG	116	23.758	-0.163	-11.925	1.00	0.00
ATOM	2008	H14	LIG	116	22.068	-0.021	-12.378	1.00	0.00
ATOM	2009	C8	LIG	116	20.550	-0.344	-3.369	1.00	0.00
ATOM	2010	H15	LIG	116	21.407	0.239	-3.006	1.00	0.00
ATOM	2011	H16	LIG	116	19.718	0.367	-3.459	1.00	0.00
ATOM	2012	C9	LIG	116	23.298	1.630	-13.047	1.00	0.00
ATOM	2013	H17	LIG	116	24.173	2.193	-12.705	1.00	0.00
ATOM	2014	H18	LIG	116	22.475	2.344	-13.151	1.00	0.00
ATOM	2015	C10	LIG	116	20.190	-1.411	-2.328	1.00	0.00
ATOM	2016	H19	LIG	116	21.022	-2.120	-2.238	1.00	0.00
ATOM	2017	H20	LIG	116	19.333	-1.992	-2.689	1.00	0.00
ATOM	2018	C11	LIG	116	23.604	1.029	-14.405	1.00	0.00
ATOM	2019	H21	LIG	116	24.455	0.344	-14.363	1.00	0.00
ATOM	2020	H22	LIG	116	22.738	0.510	-14.825	1.00	0.00
ATOM	2021	C12	LIG	116	19.867	-0.827	-0.949	1.00	0.00

ATOM	2022	H23	LIG	116	19.017	-0.138	-1.002	1.00	0.00
ATOM	2023	H24	LIG	116	19.613	-1.612	-0.232	1.00	0.00
ATOM	2024	H25	LIG	116	20.718	-0.270	-0.546	1.00	0.00
TER									
ATOM	2025	S1	LIG	117	-20.265	-13.420	14.722	1.00	0.00
ATOM	2026	O1	LIG	117	-19.130	-12.532	15.466	1.00	0.00
ATOM	2027	O2	LIG	117	-19.710	-14.868	15.174	1.00	0.00
ATOM	2028	H26	LIG	117	-18.919	-15.089	14.660	1.00	0.00
ATOM	2029	O3	LIG	117	-21.539	-13.250	15.375	1.00	0.00
ATOM	2030	O4	LIG	117	-20.120	-13.268	13.288	1.00	0.00
ATOM	2031	C1	LIG	117	-15.970	-6.100	17.736	1.00	0.00
ATOM	2032	H1	LIG	117	-15.948	-6.484	18.764	1.00	0.00
ATOM	2033	H2	LIG	117	-15.021	-6.407	17.277	1.00	0.00
ATOM	2034	C2	LIG	117	-16.043	-4.569	17.769	1.00	0.00
ATOM	2035	H3	LIG	117	-16.991	-4.262	18.229	1.00	0.00
ATOM	2036	H4	LIG	117	-16.066	-4.185	16.741	1.00	0.00
ATOM	2037	C3	LIG	117	-17.132	-6.752	16.979	1.00	0.00
ATOM	2038	H5	LIG	117	-17.153	-6.370	15.949	1.00	0.00
ATOM	2039	H6	LIG	117	-18.080	-6.443	17.437	1.00	0.00
ATOM	2040	C4	LIG	117	-14.881	-3.915	18.526	1.00	0.00
ATOM	2041	H7	LIG	117	-13.932	-4.221	18.066	1.00	0.00
ATOM	2042	H8	LIG	117	-14.857	-4.299	19.553	1.00	0.00

ATOM	2043	C5	LIG	117	-17.061	-8.283	16.948	1.00	0.00
ATOM	2044	H9	LIG	117	-16.112	-8.593	16.492	1.00	0.00
ATOM	2045	H10	LIG	117	-17.044	-8.666	17.976	1.00	0.00
ATOM	2046	C6	LIG	117	-14.953	-2.384	18.560	1.00	0.00
ATOM	2047	H11	LIG	117	-15.902	-2.078	19.019	1.00	0.00
ATOM	2048	H12	LIG	117	-14.977	-2.000	17.531	1.00	0.00
ATOM	2049	C7	LIG	117	-18.223	-8.931	16.187	1.00	0.00
ATOM	2050	H13	LIG	117	-19.172	-8.618	16.642	1.00	0.00
ATOM	2051	H14	LIG	117	-18.236	-8.551	15.157	1.00	0.00
ATOM	2052	C8	LIG	117	-13.792	-1.730	19.316	1.00	0.00
ATOM	2053	H15	LIG	117	-13.768	-2.112	20.345	1.00	0.00
ATOM	2054	H16	LIG	117	-12.843	-2.036	18.857	1.00	0.00
ATOM	2055	C9	LIG	117	-18.144	-10.463	16.168	1.00	0.00
ATOM	2056	H17	LIG	117	-18.152	-10.852	17.192	1.00	0.00
ATOM	2057	H18	LIG	117	-17.203	-10.784	15.709	1.00	0.00
ATOM	2058	C10	LIG	117	-13.864	-0.199	19.351	1.00	0.00
ATOM	2059	H19	LIG	117	-14.812	0.107	19.809	1.00	0.00
ATOM	2060	H20	LIG	117	-13.886	0.184	18.323	1.00	0.00
ATOM	2061	C11	LIG	117	-19.301	-11.077	15.403	1.00	0.00
ATOM	2062	H21	LIG	117	-20.263	-10.826	15.855	1.00	0.00
ATOM	2063	H22	LIG	117	-19.299	-10.774	14.353	1.00	0.00
ATOM	2064	C12	LIG	117	-12.699	0.445	20.109	1.00	0.00

ATOM	2065	H23	LIG	117	-11.739	0.185	19.653	1.00	0.00
ATOM	2066	H24	LIG	117	-12.780	1.535	20.114	1.00	0.00
ATOM	2067	H25	LIG	117	-12.672	0.110	21.151	1.00	0.00
TER									
ATOM	2068	S1	LIG	118	9.217	9.957	13.878	1.00	0.00
ATOM	2069	O1	LIG	118	10.120	11.134	13.223	1.00	0.00
ATOM	2070	O2	LIG	118	7.783	10.670	13.668	1.00	0.00
ATOM	2071	H26	LIG	118	7.675	11.385	14.313	1.00	0.00
ATOM	2072	O3	LIG	118	9.222	8.792	13.030	1.00	0.00
ATOM	2073	O4	LIG	118	9.513	9.867	15.294	1.00	0.00
ATOM	2074	C1	LIG	118	16.547	14.180	10.788	1.00	0.00
ATOM	2075	H1	LIG	118	16.073	14.386	9.820	1.00	0.00
ATOM	2076	H2	LIG	118	16.363	15.063	11.412	1.00	0.00
ATOM	2077	C2	LIG	118	18.058	14.012	10.585	1.00	0.00
ATOM	2078	H3	LIG	118	18.243	13.129	9.960	1.00	0.00
ATOM	2079	H4	LIG	118	18.533	13.805	11.553	1.00	0.00
ATOM	2080	C3	LIG	118	15.877	12.959	11.428	1.00	0.00
ATOM	2081	H5	LIG	118	16.351	12.753	12.398	1.00	0.00
ATOM	2082	H6	LIG	118	16.065	12.075	10.805	1.00	0.00
ATOM	2083	C4	LIG	118	18.730	15.232	9.945	1.00	0.00
ATOM	2084	H7	LIG	118	18.546	16.116	10.570	1.00	0.00
ATOM	2085	H8	LIG	118	18.255	15.441	8.978	1.00	0.00

ATOM	2086	C5	LIG	118	14.367	13.124	11.629	1.00	0.00
ATOM	2087	H9	LIG	118	14.178	14.010	12.250	1.00	0.00
ATOM	2088	H10	LIG	118	13.892	13.326	10.660	1.00	0.00
ATOM	2089	C6	LIG	118	20.240	15.065	9.741	1.00	0.00
ATOM	2090	H11	LIG	118	20.425	14.182	9.117	1.00	0.00
ATOM	2091	H12	LIG	118	20.716	14.857	10.709	1.00	0.00
ATOM	2092	C7	LIG	118	13.701	11.903	12.272	1.00	0.00
ATOM	2093	H13	LIG	118	13.892	11.019	11.652	1.00	0.00
ATOM	2094	H14	LIG	118	14.172	11.705	13.243	1.00	0.00
ATOM	2095	C8	LIG	118	20.913	16.285	9.101	1.00	0.00
ATOM	2096	H15	LIG	118	20.440	16.494	8.132	1.00	0.00
ATOM	2097	H16	LIG	118	20.728	17.169	9.725	1.00	0.00
ATOM	2098	C9	LIG	118	12.188	12.079	12.462	1.00	0.00
ATOM	2099	H17	LIG	118	11.706	12.256	11.495	1.00	0.00
ATOM	2100	H18	LIG	118	11.988	12.956	13.087	1.00	0.00
ATOM	2101	C10	LIG	118	22.424	16.119	8.896	1.00	0.00
ATOM	2102	H19	LIG	118	22.608	15.235	8.274	1.00	0.00
ATOM	2103	H20	LIG	118	22.897	15.912	9.864	1.00	0.00
ATOM	2104	C11	LIG	118	11.557	10.860	13.107	1.00	0.00
ATOM	2105	H21	LIG	118	11.686	9.965	12.494	1.00	0.00
ATOM	2106	H22	LIG	118	11.955	10.678	14.109	1.00	0.00
ATOM	2107	C12	LIG	118	23.086	17.342	8.256	1.00	0.00

ATOM	2108	H23	LIG	118	22.948	18.235	8.874	1.00	0.00
ATOM	2109	H24	LIG	118	24.161	17.193	8.126	1.00	0.00
ATOM	2110	H25	LIG	118	22.659	17.553	7.271	1.00	0.00
TER									
ATOM	2111	S1	LIG	119	5.357	-20.549	6.966	1.00	0.00
ATOM	2112	O1	LIG	119	4.345	-21.084	8.115	1.00	0.00
ATOM	2113	O2	LIG	119	6.720	-21.101	7.632	1.00	0.00
ATOM	2114	H26	LIG	119	6.965	-20.542	8.386	1.00	0.00
ATOM	2115	O3	LIG	119	5.168	-21.295	5.747	1.00	0.00
ATOM	2116	O4	LIG	119	5.361	-19.100	6.976	1.00	0.00
ATOM	2117	C1	LIG	119	-2.427	-22.343	11.125	1.00	0.00
ATOM	2118	H1	LIG	119	-2.163	-23.399	11.258	1.00	0.00
ATOM	2119	H2	LIG	119	-2.111	-21.833	12.045	1.00	0.00
ATOM	2120	C2	LIG	119	-3.948	-22.217	10.977	1.00	0.00
ATOM	2121	H3	LIG	119	-4.265	-22.727	10.058	1.00	0.00
ATOM	2122	H4	LIG	119	-4.213	-21.160	10.843	1.00	0.00
ATOM	2123	C3	LIG	119	-1.647	-21.771	9.937	1.00	0.00
ATOM	2124	H5	LIG	119	-1.910	-20.713	9.805	1.00	0.00
ATOM	2125	H6	LIG	119	-1.966	-22.280	9.017	1.00	0.00
ATOM	2126	C4	LIG	119	-4.731	-22.787	12.165	1.00	0.00
ATOM	2127	H7	LIG	119	-4.415	-22.276	13.085	1.00	0.00
ATOM	2128	H8	LIG	119	-4.465	-23.844	12.299	1.00	0.00

ATOM	2129	C5	LIG	119	-0.127	-21.900	10.083	1.00	0.00
ATOM	2130	H9	LIG	119	0.193	-21.394	11.003	1.00	0.00
ATOM	2131	H10	LIG	119	0.138	-22.957	10.210	1.00	0.00
ATOM	2132	C6	LIG	119	-6.251	-22.663	12.017	1.00	0.00
ATOM	2133	H11	LIG	119	-6.567	-23.172	11.098	1.00	0.00
ATOM	2134	H12	LIG	119	-6.517	-21.605	11.883	1.00	0.00
ATOM	2135	C7	LIG	119	0.650	-21.325	8.894	1.00	0.00
ATOM	2136	H13	LIG	119	0.329	-21.830	7.974	1.00	0.00
ATOM	2137	H14	LIG	119	0.390	-20.266	8.771	1.00	0.00
ATOM	2138	C8	LIG	119	-7.034	-23.232	13.204	1.00	0.00
ATOM	2139	H15	LIG	119	-6.771	-24.290	13.339	1.00	0.00
ATOM	2140	H16	LIG	119	-6.718	-22.723	14.124	1.00	0.00
ATOM	2141	C9	LIG	119	2.171	-21.464	9.050	1.00	0.00
ATOM	2142	H17	LIG	119	2.442	-22.520	9.153	1.00	0.00
ATOM	2143	H18	LIG	119	2.502	-20.957	9.962	1.00	0.00
ATOM	2144	C10	LIG	119	-8.555	-23.108	13.057	1.00	0.00
ATOM	2145	H19	LIG	119	-8.870	-23.617	12.138	1.00	0.00
ATOM	2146	H20	LIG	119	-8.819	-22.052	12.924	1.00	0.00
ATOM	2147	C11	LIG	119	2.914	-20.881	7.864	1.00	0.00
ATOM	2148	H21	LIG	119	2.654	-21.391	6.933	1.00	0.00
ATOM	2149	H22	LIG	119	2.731	-19.808	7.757	1.00	0.00
ATOM	2150	C12	LIG	119	-9.328	-23.681	14.249	1.00	0.00



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ATOM 2151 H23 LIG 119 -9.059 -23.169 15.178 1.00 0.00
ATOM 2152 H24 LIG 119 -10.408 -23.575 14.113 1.00 0.00
ATOM 2153 H25 LIG 119 -9.113 -24.745 14.385 1.00 0.00
TER
END

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**Table L:** The number of atoms present in the system of BN-Sum

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ATOM 1 N GLN 1 -7.420 -12.315 1.093 1.00 0.00
ATOM 2 H1 GLN 1 -6.489 -12.646 1.302 1.00 0.00
ATOM 3 H2 GLN 1 -7.651 -11.569 1.733 1.00 0.00
ATOM 4 H3 GLN 1 -7.497 -12.168 0.097 1.00 0.00
ATOM 5 CA GLN 1 -8.365 -13.393 1.399 1.00 0.00
ATOM 6 HA GLN 1 -9.067 -13.055 2.161 1.00 0.00
ATOM 7 CB GLN 1 -9.158 -13.809 0.152 1.00 0.00
ATOM 8 HB2 GLN 1 -8.861 -13.175 -0.683 1.00 0.00
ATOM 9 HB3 GLN 1 -8.928 -14.849 -0.082 1.00 0.00
ATOM 10 CG GLN 1 -10.658 -13.662 0.393 1.00 0.00
ATOM 11 HG2 GLN 1 -11.273 -14.469 -0.006 1.00 0.00
ATOM 12 HG3 GLN 1 -10.734 -13.651 1.480 1.00 0.00
ATOM 13 CD GLN 1 -11.183 -12.341 -0.144 1.00 0.00
ATOM 14 OE1 GLN 1 -11.541 -11.440 0.596 1.00 0.00
ATOM 15 NE2 GLN 1 -11.079 -12.181 -1.450 1.00 0.00

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ATOM	16	HE21	GLN	1	-11.407	-11.328	-1.879	1.00	0.00
ATOM	17	HE22	GLN	1	-10.672	-12.913	-2.015	1.00	0.00
ATOM	18	C	GLN	1	-7.633	-14.596	1.983	1.00	0.00
ATOM	19	O	GLN	1	-7.985	-15.076	3.051	1.00	0.00
ATOM	20	N	PRO	2	-6.575	-15.047	1.287	1.00	0.00
ATOM	21	CD	PRO	2	-6.079	-14.523	0.016	1.00	0.00
ATOM	22	HD2	PRO	2	-5.674	-13.529	0.206	1.00	0.00
ATOM	23	HD3	PRO	2	-6.929	-14.445	-0.661	1.00	0.00
ATOM	24	CG	PRO	2	-5.025	-15.496	-0.487	1.00	0.00
ATOM	25	HG2	PRO	2	-4.060	-14.991	-0.528	1.00	0.00
ATOM	26	HG3	PRO	2	-5.299	-15.837	-1.486	1.00	0.00
ATOM	27	CB	PRO	2	-5.002	-16.662	0.500	1.00	0.00
ATOM	28	HB2	PRO	2	-3.982	-16.923	0.783	1.00	0.00
ATOM	29	HB3	PRO	2	-5.496	-17.537	0.078	1.00	0.00
ATOM	30	CA	PRO	2	-5.771	-16.169	1.724	1.00	0.00
ATOM	31	HA	PRO	2	-6.441	-16.975	2.023	1.00	0.00
ATOM	32	C	PRO	2	-4.881	-15.803	2.880	1.00	0.00
ATOM	33	O	PRO	2	-3.892	-15.122	2.668	1.00	0.00
ATOM	34	N	GLN	3	-5.227	-16.266	4.085	1.00	0.00
ATOM	35	H	GLN	3	-6.050	-16.844	4.180	1.00	0.00
ATOM	36	CA	GLN	3	-4.459	-15.964	5.274	1.00	0.00
ATOM	37	HA	GLN	3	-4.385	-14.884	5.397	1.00	0.00

ATOM	38	CB	GLN	3	-5.125	-16.552	6.517	1.00	0.00
ATOM	39	HB2	GLN	3	-6.176	-16.741	6.298	1.00	0.00
ATOM	40	HB3	GLN	3	-4.633	-17.492	6.769	1.00	0.00
ATOM	41	CG	GLN	3	-5.016	-15.583	7.702	1.00	0.00
ATOM	42	HG2	GLN	3	-4.570	-16.127	8.535	1.00	0.00
ATOM	43	HG3	GLN	3	-4.386	-14.731	7.446	1.00	0.00
ATOM	44	CD	GLN	3	-6.373	-15.070	8.131	1.00	0.00
ATOM	45	OE1	GLN	3	-6.993	-15.584	9.041	1.00	0.00
ATOM	46	NE2	GLN	3	-6.839	-14.058	7.421	1.00	0.00
ATOM	47	HE21	GLN	3	-7.739	-13.660	7.646	1.00	0.00
ATOM	48	HE22	GLN	3	-6.293	-13.688	6.656	1.00	0.00
ATOM	49	C	GLN	3	-3.077	-16.541	5.150	1.00	0.00
ATOM	50	O	GLN	3	-2.136	-15.964	5.622	1.00	0.00
ATOM	51	N	LYS	4	-2.911	-17.655	4.445	1.00	0.00
ATOM	52	H	LYS	4	-3.727	-18.137	4.096	1.00	0.00
ATOM	53	CA	LYS	4	-1.607	-18.262	4.229	1.00	0.00
ATOM	54	HA	LYS	4	-1.256	-18.741	5.143	1.00	0.00
ATOM	55	CB	LYS	4	-1.714	-19.324	3.131	1.00	0.00
ATOM	56	HB2	LYS	4	-0.882	-20.020	3.242	1.00	0.00
ATOM	57	HB3	LYS	4	-2.654	-19.860	3.260	1.00	0.00
ATOM	58	CG	LYS	4	-1.672	-18.695	1.729	1.00	0.00
ATOM	59	HG2	LYS	4	-1.881	-17.629	1.817	1.00	0.00

ATOM	60	HG3 LYS	4	-0.675	-18.837	1.311	1.00	0.00
ATOM	61	CD LYS	4	-2.706	-19.342	0.809	1.00	0.00
ATOM	62	HD2 LYS	4	-3.669	-19.364	1.320	1.00	0.00
ATOM	63	HD3 LYS	4	-2.791	-18.747	-0.100	1.00	0.00
ATOM	64	CE LYS	4	-2.290	-20.767	0.447	1.00	0.00
ATOM	65	HE2 LYS	4	-2.089	-20.820	-0.623	1.00	0.00
ATOM	66	HE3 LYS	4	-1.387	-21.027	0.999	1.00	0.00
ATOM	67	NZ LYS	4	-3.366	-21.714	0.792	1.00	0.00
ATOM	68	HZ1 LYS	4	-4.203	-21.474	0.280	1.00	0.00
ATOM	69	HZ2 LYS	4	-3.080	-22.652	0.548	1.00	0.00
ATOM	70	HZ3 LYS	4	-3.552	-21.666	1.783	1.00	0.00
ATOM	71	C LYS	4	-0.553	-17.190	3.900	1.00	0.00
ATOM	72	O LYS	4	0.590	-17.354	4.264	1.00	0.00
ATOM	73	N CYX	5	-0.997	-16.091	3.264	1.00	0.00
ATOM	74	H CYX	5	-1.957	-16.058	2.952	1.00	0.00
ATOM	75	CA CYX	5	-0.158	-14.974	2.988	1.00	0.00
ATOM	76	HA CYX	5	0.859	-15.170	3.327	1.00	0.00
ATOM	77	CB CYX	5	-0.131	-14.729	1.502	1.00	0.00
ATOM	78	HB2 CYX	5	-0.722	-15.493	0.996	1.00	0.00
ATOM	79	HB3 CYX	5	-0.549	-13.746	1.288	1.00	0.00
ATOM	80	SG CYX	5	1.535	-14.807	0.776	1.00	0.00
ATOM	81	C CYX	5	-0.670	-13.768	3.706	1.00	0.00

ATOM	82	O	CYX	5	0.086	-13.011	4.232	1.00	0.00
ATOM	83	N	GLN	6	-1.980	-13.577	3.829	1.00	0.00
ATOM	84	H	GLN	6	-2.594	-14.215	3.342	1.00	0.00
ATOM	85	CA	GLN	6	-2.570	-12.472	4.548	1.00	0.00
ATOM	86	HA	GLN	6	-2.159	-11.532	4.180	1.00	0.00
ATOM	87	CB	GLN	6	-4.087	-12.452	4.353	1.00	0.00
ATOM	88	HB2	GLN	6	-4.405	-13.438	4.015	1.00	0.00
ATOM	89	HB3	GLN	6	-4.556	-12.228	5.311	1.00	0.00
ATOM	90	CG	GLN	6	-4.503	-11.405	3.327	1.00	0.00
ATOM	91	HG2	GLN	6	-3.589	-10.900	3.014	1.00	0.00
ATOM	92	HG3	GLN	6	-4.977	-11.867	2.461	1.00	0.00
ATOM	93	CD	GLN	6	-5.449	-10.377	3.905	1.00	0.00
ATOM	94	OE1	GLN	6	-5.469	-10.078	5.084	1.00	0.00
ATOM	95	NE2	GLN	6	-6.311	-9.859	3.041	1.00	0.00
ATOM	96	HE21	GLN	6	-6.976	-9.165	3.350	1.00	0.00
ATOM	97	HE22	GLN	6	-6.298	-10.161	2.077	1.00	0.00
ATOM	98	C	GLN	6	-2.218	-12.511	6.025	1.00	0.00
ATOM	99	O	GLN	6	-2.463	-11.564	6.753	1.00	0.00
ATOM	100	N	ARG	7	-1.652	-13.619	6.485	1.00	0.00
ATOM	101	H	ARG	7	-1.528	-14.369	5.819	1.00	0.00
ATOM	102	CA	ARG	7	-1.241	-13.839	7.839	1.00	0.00
ATOM	103	HA	ARG	7	-1.646	-13.048	8.470	1.00	0.00

ATOM	104	CB	ARG	7	-1.736	-15.189	8.368	1.00	0.00
ATOM	105	HB2	ARG	7	-2.541	-15.548	7.726	1.00	0.00
ATOM	106	HB3	ARG	7	-0.911	-15.902	8.348	1.00	0.00
ATOM	107	CG	ARG	7	-2.251	-15.047	9.797	1.00	0.00
ATOM	108	HG2	ARG	7	-1.523	-14.480	10.376	1.00	0.00
ATOM	109	HG3	ARG	7	-3.198	-14.507	9.775	1.00	0.00
ATOM	110	CD	ARG	7	-2.461	-16.420	10.445	1.00	0.00
ATOM	111	HD2	ARG	7	-3.455	-16.796	10.200	1.00	0.00
ATOM	112	HD3	ARG	7	-1.709	-17.120	10.079	1.00	0.00
ATOM	113	NE	ARG	7	-2.341	-16.321	11.914	1.00	0.00
ATOM	114	HE	ARG	7	-3.203	-16.229	12.432	1.00	0.00
ATOM	115	CZ	ARG	7	-1.199	-16.339	12.585	1.00	0.00
ATOM	116	NH1	ARG	7	-0.057	-16.470	11.951	1.00	0.00
ATOM	117	HH11	ARG	7	-0.049	-16.558	10.945	1.00	0.00
ATOM	118	HH12	ARG	7	0.808	-16.483	12.472	1.00	0.00
ATOM	119	NH2	ARG	7	-1.197	-16.232	13.892	1.00	0.00
ATOM	120	HH21	ARG	7	-2.071	-16.136	14.389	1.00	0.00
ATOM	121	HH22	ARG	7	-0.322	-16.247	14.395	1.00	0.00
ATOM	122	C	ARG	7	0.260	-13.785	7.940	1.00	0.00
ATOM	123	O	ARG	7	0.736	-13.792	9.048	1.00	0.00
ATOM	124	N	GLU	8	0.956	-13.773	6.816	1.00	0.00
ATOM	125	H	GLU	8	0.458	-13.866	5.942	1.00	0.00

ATOM	126	CA	GLU	8	2.401	-13.696	6.777	1.00	0.00
ATOM	127	HA	GLU	8	2.803	-13.738	7.789	1.00	0.00
ATOM	128	CB	GLU	8	2.970	-14.868	5.977	1.00	0.00
ATOM	129	HB2	GLU	8	2.147	-15.412	5.512	1.00	0.00
ATOM	130	HB3	GLU	8	3.632	-14.480	5.203	1.00	0.00
ATOM	131	CG	GLU	8	3.755	-15.815	6.892	1.00	0.00
ATOM	132	HG2	GLU	8	3.411	-15.620	7.907	1.00	0.00
ATOM	133	HG3	GLU	8	3.563	-16.858	6.638	1.00	0.00
ATOM	134	CD	GLU	8	5.259	-15.536	6.800	1.00	0.00
ATOM	135	OE1	GLU	8	5.818	-15.800	5.716	1.00	0.00
ATOM	136	OE2	GLU	8	5.815	-15.120	7.835	1.00	0.00
ATOM	137	C	GLU	8	2.877	-12.375	6.190	1.00	0.00
ATOM	138	O	GLU	8	3.945	-11.890	6.506	1.00	0.00
ATOM	139	N	PHE	9	2.018	-11.719	5.422	1.00	0.00
ATOM	140	H	PHE	9	1.104	-12.129	5.290	1.00	0.00
ATOM	141	CA	PHE	9	2.303	-10.477	4.777	1.00	0.00
ATOM	142	HA	PHE	9	3.341	-10.444	4.447	1.00	0.00
ATOM	143	CB	PHE	9	1.399	-10.341	3.556	1.00	0.00
ATOM	144	HB2	PHE	9	1.874	-10.837	2.709	1.00	0.00
ATOM	145	HB3	PHE	9	0.428	-10.799	3.747	1.00	0.00
ATOM	146	CG	PHE	9	1.128	-8.914	3.127	1.00	0.00
ATOM	147	CD1	PHE	9	0.305	-8.075	3.897	1.00	0.00

ATOM	148	HD1 PHE	9	-0.167	-8.477	4.793	1.00	0.00
ATOM	149	CE1 PHE	9	0.088	-6.749	3.531	1.00	0.00
ATOM	150	HE1 PHE	9	-0.511	-6.096	4.165	1.00	0.00
ATOM	151	CZ PHE	9	0.639	-6.259	2.350	1.00	0.00
ATOM	152	HZ PHE	9	0.465	-5.228	2.041	1.00	0.00
ATOM	153	CE2 PHE	9	1.421	-7.102	1.558	1.00	0.00
ATOM	154	HE2 PHE	9	1.833	-6.718	0.625	1.00	0.00
ATOM	155	CD2 PHE	9	1.678	-8.420	1.945	1.00	0.00
ATOM	156	HD2 PHE	9	2.306	-9.058	1.323	1.00	0.00
ATOM	157	C PHE	9	2.035	-9.364	5.747	1.00	0.00
ATOM	158	O PHE	9	2.709	-8.354	5.767	1.00	0.00
ATOM	159	N GLN	10	0.962	-9.491	6.544	1.00	0.00
ATOM	160	H GLN	10	0.373	-10.307	6.449	1.00	0.00
ATOM	161	CA GLN	10	0.574	-8.473	7.491	1.00	0.00
ATOM	162	HA GLN	10	1.028	-7.522	7.212	1.00	0.00
ATOM	163	CB GLN	10	-0.949	-8.301	7.514	1.00	0.00
ATOM	164	HB2 GLN	10	-1.245	-7.703	6.653	1.00	0.00
ATOM	165	HB3 GLN	10	-1.412	-9.286	7.448	1.00	0.00
ATOM	166	CG GLN	10	-1.408	-7.605	8.803	1.00	0.00
ATOM	167	HG2 GLN	10	-1.260	-8.264	9.658	1.00	0.00
ATOM	168	HG3 GLN	10	-0.807	-6.705	8.930	1.00	0.00
ATOM	169	CD GLN	10	-2.859	-7.210	8.745	1.00	0.00



ATOM	170	OE1	GLN	10	-3.228	-6.213	8.145	1.00	0.00
ATOM	171	NE2	GLN	10	-3.698	-8.025	9.358	1.00	0.00
ATOM	172	HE21	GLN	10	-4.687	-7.820	9.358	1.00	0.00
ATOM	173	HE22	GLN	10	-3.347	-8.850	9.824	1.00	0.00
ATOM	174	C	GLN	10	1.117	-8.844	8.865	1.00	0.00
ATOM	175	O	GLN	10	1.100	-8.036	9.792	1.00	0.00
ATOM	176	N	GLN	11	1.586	-10.076	9.023	1.00	0.00
ATOM	177	H	GLN	11	1.542	-10.728	8.252	1.00	0.00
ATOM	178	CA	GLN	11	2.116	-10.539	10.279	1.00	0.00
ATOM	179	HA	GLN	11	1.311	-10.639	11.007	1.00	0.00
ATOM	180	CB	GLN	11	2.785	-11.897	10.103	1.00	0.00
ATOM	181	HB2	GLN	11	2.457	-12.334	9.159	1.00	0.00
ATOM	182	HB3	GLN	11	3.866	-11.759	10.083	1.00	0.00
ATOM	183	CG	GLN	11	2.412	-12.834	11.255	1.00	0.00
ATOM	184	HG2	GLN	11	1.593	-12.363	11.798	1.00	0.00
ATOM	185	HG3	GLN	11	2.087	-13.805	10.880	1.00	0.00
ATOM	186	CD	GLN	11	3.568	-13.046	12.211	1.00	0.00
ATOM	187	OE1	GLN	11	4.722	-13.085	11.843	1.00	0.00
ATOM	188	NE2	GLN	11	3.228	-13.238	13.475	1.00	0.00
ATOM	189	HE21	GLN	11	3.945	-13.387	14.171	1.00	0.00
ATOM	190	HE22	GLN	11	2.253	-13.236	13.738	1.00	0.00
ATOM	191	C	GLN	11	3.104	-9.538	10.847	1.00	0.00

ATOM	192	O	GLN	11	2.905	-9.023	11.943	1.00	0.00
ATOM	193	N	GLU	12	4.094	-9.169	10.033	1.00	0.00
ATOM	194	H	GLU	12	4.164	-9.582	9.114	1.00	0.00
ATOM	195	CA	GLU	12	5.138	-8.254	10.458	1.00	0.00
ATOM	196	HA	GLU	12	4.691	-7.282	10.667	1.00	0.00
ATOM	197	CB	GLU	12	5.864	-8.742	11.721	1.00	0.00
ATOM	198	HB2	GLU	12	6.888	-8.369	11.695	1.00	0.00
ATOM	199	HB3	GLU	12	5.351	-8.334	12.592	1.00	0.00
ATOM	200	CG	GLU	12	5.880	-10.271	11.809	1.00	0.00
ATOM	201	HG2	GLU	12	4.981	-10.637	12.305	1.00	0.00
ATOM	202	HG3	GLU	12	5.899	-10.632	10.780	1.00	0.00
ATOM	203	CD	GLU	12	7.106	-10.779	12.545	1.00	0.00
ATOM	204	OE1	GLU	12	8.156	-10.918	11.877	1.00	0.00
ATOM	205	OE2	GLU	12	6.995	-10.970	13.780	1.00	0.00
ATOM	206	C	GLU	12	6.124	-8.014	9.323	1.00	0.00
ATOM	207	O	GLU	12	7.309	-7.778	9.529	1.00	0.00
ATOM	208	N	GLN	13	5.615	-8.031	8.092	1.00	0.00
ATOM	209	H	GLN	13	4.638	-8.252	7.960	1.00	0.00
ATOM	210	CA	GLN	13	6.432	-7.818	6.922	1.00	0.00
ATOM	211	HA	GLN	13	7.176	-7.049	7.128	1.00	0.00
ATOM	212	CB	GLN	13	7.158	-9.107	6.527	1.00	0.00
ATOM	213	HB2	GLN	13	6.579	-9.961	6.880	1.00	0.00

ATOM	214	HB3	GLN	13	7.240	-9.148	5.441	1.00	0.00
ATOM	215	CG	GLN	13	8.554	-9.149	7.144	1.00	0.00
ATOM	216	HG2	GLN	13	9.038	-8.173	7.135	1.00	0.00
ATOM	217	HG3	GLN	13	8.424	-9.480	8.174	1.00	0.00
ATOM	218	CD	GLN	13	9.450	-10.141	6.426	1.00	0.00
ATOM	219	OE1	GLN	13	9.373	-10.366	5.227	1.00	0.00
ATOM	220	NE2	GLN	13	10.387	-10.706	7.170	1.00	0.00
ATOM	221	HE21	GLN	13	11.019	-11.377	6.757	1.00	0.00
ATOM	222	HE22	GLN	13	10.465	-10.464	8.147	1.00	0.00
ATOM	223	C	GLN	13	5.590	-7.295	5.790	1.00	0.00
ATOM	224	O	GLN	13	5.609	-7.831	4.721	1.00	0.00
ATOM	225	N	HIE	14	4.806	-6.249	6.044	1.00	0.00
ATOM	226	H	HIE	14	4.786	-5.884	6.985	1.00	0.00
ATOM	227	CA	HIE	14	3.911	-5.670	5.064	1.00	0.00
ATOM	228	HA	HIE	14	3.303	-6.456	4.616	1.00	0.00
ATOM	229	CB	HIE	14	2.981	-4.641	5.713	1.00	0.00
ATOM	230	HB2	HIE	14	3.443	-3.654	5.718	1.00	0.00
ATOM	231	HB3	HIE	14	2.060	-4.608	5.130	1.00	0.00
ATOM	232	CG	HIE	14	2.582	-4.935	7.129	1.00	0.00
ATOM	233	ND1	HIE	14	2.030	-4.007	7.977	1.00	0.00
ATOM	234	CE1	HIE	14	1.806	-4.592	9.161	1.00	0.00
ATOM	235	HE1	HIE	14	1.342	-4.041	9.979	1.00	0.00

ATOM	236	NE2 HIE	14	2.239	-5.853	9.089	1.00	0.00
ATOM	237	HE2 HIE	14	2.224	-6.525	9.843	1.00	0.00
ATOM	238	CD2 HIE	14	2.710	-6.099	7.828	1.00	0.00
ATOM	239	HD2 HIE	14	3.087	-7.089	7.570	1.00	0.00
ATOM	240	C HIE	14	4.757	-5.088	3.941	1.00	0.00
ATOM	241	O HIE	14	5.867	-5.499	3.643	1.00	0.00
ATOM	242	N LEU	15	4.259	-4.011	3.336	1.00	0.00
ATOM	243	H LEU	15	3.330	-3.692	3.569	1.00	0.00
ATOM	244	CA LEU	15	4.962	-3.346	2.263	1.00	0.00
ATOM	245	HA LEU	15	5.962	-3.765	2.156	1.00	0.00
ATOM	246	CB LEU	15	4.207	-3.537	0.941	1.00	0.00
ATOM	247	HB2 LEU	15	3.379	-2.834	1.028	1.00	0.00
ATOM	248	HB3 LEU	15	4.844	-3.245	0.106	1.00	0.00
ATOM	249	CG LEU	15	3.657	-4.945	0.695	1.00	0.00
ATOM	250	HG LEU	15	2.801	-5.108	1.350	1.00	0.00
ATOM	251	CD1 LEU	15	3.224	-5.112	-0.757	1.00	0.00
ATOM	252	HD11 LEU	15	4.079	-4.950	-1.413	1.00	0.00
ATOM	253	HD12 LEU	15	2.837	-6.120	-0.908	1.00	0.00
ATOM	254	HD13 LEU	15	2.445	-4.386	-0.991	1.00	0.00
ATOM	255	CD2 LEU	15	4.642	-6.009	1.087	1.00	0.00
ATOM	256	HD21 LEU	15	4.876	-5.916	2.147	1.00	0.00
ATOM	257	HD22 LEU	15	4.211	-6.992	0.896	1.00	0.00

ATOM	258	HD23	LEU	15	5.555	-5.893	0.502	1.00	0.00
ATOM	259	C	LEU	15	5.189	-1.896	2.619	1.00	0.00
ATOM	260	O	LEU	15	4.596	-1.398	3.582	1.00	0.00
ATOM	261	N	ARG	16	6.001	-1.206	1.817	1.00	0.00
ATOM	262	H	ARG	16	6.416	-1.664	1.018	1.00	0.00
ATOM	263	CA	ARG	16	6.310	0.186	2.045	1.00	0.00
ATOM	264	HA	ARG	16	5.451	0.679	2.501	1.00	0.00
ATOM	265	CB	ARG	16	7.511	0.338	2.976	1.00	0.00
ATOM	266	HB2	ARG	16	8.215	-0.468	2.770	1.00	0.00
ATOM	267	HB3	ARG	16	7.988	1.297	2.775	1.00	0.00
ATOM	268	CG	ARG	16	7.083	0.279	4.443	1.00	0.00
ATOM	269	HG2	ARG	16	6.012	0.082	4.486	1.00	0.00
ATOM	270	HG3	ARG	16	7.621	-0.534	4.931	1.00	0.00
ATOM	271	CD	ARG	16	7.389	1.596	5.159	1.00	0.00
ATOM	272	HD2	ARG	16	7.357	2.416	4.442	1.00	0.00
ATOM	273	HD3	ARG	16	6.648	1.767	5.939	1.00	0.00
ATOM	274	NE	ARG	16	8.728	1.561	5.778	1.00	0.00
ATOM	275	HE	ARG	16	9.365	0.863	5.422	1.00	0.00
ATOM	276	CZ	ARG	16	9.146	2.365	6.738	1.00	0.00
ATOM	277	NH1	ARG	16	8.351	3.293	7.220	1.00	0.00
ATOM	278	HH11	ARG	16	7.415	3.391	6.854	1.00	0.00
ATOM	279	HH12	ARG	16	8.680	3.903	7.954	1.00	0.00

ATOM	280	NH2	ARG	16	10.356	2.241	7.226	1.00	0.00
ATOM	281	HH21	ARG	16	10.972	1.526	6.865	1.00	0.00
ATOM	282	HH22	ARG	16	10.667	2.860	7.960	1.00	0.00
ATOM	283	C	ARG	16	6.632	0.840	0.750	1.00	0.00
ATOM	284	O	ARG	16	5.814	1.575	0.267	1.00	0.00
ATOM	285	N	ALA	17	7.768	0.553	0.152	1.00	0.00
ATOM	286	H	ALA	17	8.428	-0.036	0.639	1.00	0.00
ATOM	287	CA	ALA	17	8.155	1.104	-1.120	1.00	0.00
ATOM	288	HA	ALA	17	8.312	2.176	-1.005	1.00	0.00
ATOM	289	CB	ALA	17	9.471	0.463	-1.585	1.00	0.00
ATOM	290	HB1	ALA	17	9.328	-0.610	-1.714	1.00	0.00
ATOM	291	HB2	ALA	17	9.775	0.904	-2.534	1.00	0.00
ATOM	292	HB3	ALA	17	10.245	0.638	-0.838	1.00	0.00
ATOM	293	C	ALA	17	7.031	0.930	-2.160	1.00	0.00
ATOM	294	O	ALA	17	6.933	1.673	-3.127	1.00	0.00
ATOM	295	N	CYX	18	6.092	0.014	-1.902	1.00	0.00
ATOM	296	H	CYX	18	6.193	-0.544	-1.066	1.00	0.00
ATOM	297	CA	CYX	18	4.995	-0.260	-2.768	1.00	0.00
ATOM	298	HA	CYX	18	5.282	-0.043	-3.797	1.00	0.00
ATOM	299	CB	CYX	18	4.574	-1.721	-2.679	1.00	0.00
ATOM	300	HB2	CYX	18	5.384	-2.307	-2.244	1.00	0.00
ATOM	301	HB3	CYX	18	3.687	-1.807	-2.052	1.00	0.00

ATOM	302	SG	CYX	18	4.212	-2.516	-4.262	1.00	0.00
ATOM	303	C	CYX	18	3.881	0.674	-2.389	1.00	0.00
ATOM	304	O	CYX	18	3.325	1.372	-3.219	1.00	0.00
ATOM	305	N	GLN	19	3.552	0.720	-1.101	1.00	0.00
ATOM	306	H	GLN	19	3.985	0.071	-0.460	1.00	0.00
ATOM	307	CA	GLN	19	2.537	1.600	-0.596	1.00	0.00
ATOM	308	HA	GLN	19	1.819	1.837	-1.381	1.00	0.00
ATOM	309	CB	GLN	19	1.802	0.927	0.545	1.00	0.00
ATOM	310	HB2	GLN	19	0.980	1.579	0.839	1.00	0.00
ATOM	311	HB3	GLN	19	1.401	-0.015	0.170	1.00	0.00
ATOM	312	CG	GLN	19	2.691	0.655	1.752	1.00	0.00
ATOM	313	HG2	GLN	19	2.511	-0.361	2.105	1.00	0.00
ATOM	314	HG3	GLN	19	3.737	0.759	1.464	1.00	0.00
ATOM	315	CD	GLN	19	2.401	1.624	2.889	1.00	0.00
ATOM	316	OE1	GLN	19	3.287	2.256	3.464	1.00	0.00
ATOM	317	NE2	GLN	19	1.126	1.745	3.231	1.00	0.00
ATOM	318	HE21	GLN	19	0.864	2.371	3.978	1.00	0.00
ATOM	319	HE22	GLN	19	0.422	1.210	2.742	1.00	0.00
ATOM	320	C	GLN	19	3.120	2.927	-0.180	1.00	0.00
ATOM	321	O	GLN	19	2.624	3.541	0.735	1.00	0.00
ATOM	322	N	GLN	20	4.203	3.368	-0.797	1.00	0.00
ATOM	323	H	GLN	20	4.582	2.800	-1.542	1.00	0.00

ATOM	324	CA	GLN	20	4.893	4.585	-0.446	1.00	0.00
ATOM	325	HA	GLN	20	4.247	5.179	0.200	1.00	0.00
ATOM	326	CB	GLN	20	6.212	4.326	0.286	1.00	0.00
ATOM	327	HB2	GLN	20	6.770	3.566	-0.261	1.00	0.00
ATOM	328	HB3	GLN	20	6.786	5.252	0.308	1.00	0.00
ATOM	329	CG	GLN	20	5.964	3.844	1.723	1.00	0.00
ATOM	330	HG2	GLN	20	5.002	3.334	1.784	1.00	0.00
ATOM	331	HG3	GLN	20	6.762	3.145	1.976	1.00	0.00
ATOM	332	CD	GLN	20	5.976	4.968	2.720	1.00	0.00
ATOM	333	OE1	GLN	20	6.536	6.030	2.517	1.00	0.00
ATOM	334	NE2	GLN	20	5.307	4.757	3.842	1.00	0.00
ATOM	335	HE21	GLN	20	5.278	5.475	4.551	1.00	0.00
ATOM	336	HE22	GLN	20	4.829	3.878	3.983	1.00	0.00
ATOM	337	C	GLN	20	5.157	5.373	-1.703	1.00	0.00
ATOM	338	O	GLN	20	4.974	6.581	-1.727	1.00	0.00
ATOM	339	N	TRP	21	5.533	4.686	-2.782	1.00	0.00
ATOM	340	H	TRP	21	5.699	3.692	-2.712	1.00	0.00
ATOM	341	CA	TRP	21	5.778	5.335	-4.052	1.00	0.00
ATOM	342	HA	TRP	21	6.541	6.104	-3.934	1.00	0.00
ATOM	343	CB	TRP	21	6.265	4.319	-5.084	1.00	0.00
ATOM	344	HB2	TRP	21	6.767	4.832	-5.904	1.00	0.00
ATOM	345	HB3	TRP	21	6.968	3.646	-4.593	1.00	0.00



ATOM	346	CG	TRP	21	5.210	3.460	-5.700	1.00	0.00
ATOM	347	CD1	TRP	21	4.865	2.191	-5.392	1.00	0.00
ATOM	348	HD1	TRP	21	5.452	1.735	-4.595	1.00	0.00
ATOM	349	NE1	TRP	21	3.819	1.734	-6.172	1.00	0.00
ATOM	350	HE1	TRP	21	3.380	0.827	-6.095	1.00	0.00
ATOM	351	CE2	TRP	21	3.451	2.725	-7.047	1.00	0.00
ATOM	352	CZ2	TRP	21	2.464	2.800	-8.028	1.00	0.00
ATOM	353	HZ2	TRP	21	1.842	1.919	-8.190	1.00	0.00
ATOM	354	CH2	TRP	21	2.331	3.990	-8.741	1.00	0.00
ATOM	355	HH2	TRP	21	1.588	4.075	-9.534	1.00	0.00
ATOM	356	CZ3	TRP	21	3.147	5.094	-8.452	1.00	0.00
ATOM	357	HZ3	TRP	21	3.001	6.035	-8.982	1.00	0.00
ATOM	358	CE3	TRP	21	4.161	5.032	-7.491	1.00	0.00
ATOM	359	HE3	TRP	21	4.792	5.907	-7.339	1.00	0.00
ATOM	360	CD2	TRP	21	4.315	3.838	-6.758	1.00	0.00
ATOM	361	C	TRP	21	4.503	6.029	-4.499	1.00	0.00
ATOM	362	O	TRP	21	4.520	7.099	-5.096	1.00	0.00
ATOM	363	N	ILE	22	3.352	5.429	-4.172	1.00	0.00
ATOM	364	H	ILE	22	3.378	4.545	-3.684	1.00	0.00
ATOM	365	CA	ILE	22	2.063	5.969	-4.543	1.00	0.00
ATOM	366	HA	ILE	22	2.050	6.298	-5.582	1.00	0.00
ATOM	367	CB	ILE	22	0.968	4.917	-4.327	1.00	0.00

ATOM	368	HB	ILE	22	0.914	4.669	-3.267	1.00	0.00
ATOM	369	CG2	ILE	22	-0.386	5.461	-4.793	1.00	0.00
ATOM	370	HG21	ILE	22	-0.333	5.708	-5.853	1.00	0.00
ATOM	371	HG22	ILE	22	-1.156	4.705	-4.635	1.00	0.00
ATOM	372	HG23	ILE	22	-0.634	6.356	-4.223	1.00	0.00
ATOM	373	CG1	ILE	22	1.314	3.616	-5.058	1.00	0.00
ATOM	374	HG12	ILE	22	1.049	3.728	-6.110	1.00	0.00
ATOM	375	HG13	ILE	22	2.387	3.444	-4.970	1.00	0.00
ATOM	376	CD1	ILE	22	0.559	2.429	-4.468	1.00	0.00
ATOM	377	HD11	ILE	22	-0.514	2.600	-4.556	1.00	0.00
ATOM	378	HD12	ILE	22	0.827	1.521	-5.010	1.00	0.00
ATOM	379	HD13	ILE	22	0.823	2.315	-3.417	1.00	0.00
ATOM	380	C	ILE	22	1.816	7.220	-3.724	1.00	0.00
ATOM	381	O	ILE	22	1.178	8.158	-4.178	1.00	0.00
ATOM	382	N	ARG	23	2.338	7.258	-2.492	1.00	0.00
ATOM	383	H	ARG	23	2.797	6.434	-2.129	1.00	0.00
ATOM	384	CA	ARG	23	2.238	8.419	-1.638	1.00	0.00
ATOM	385	HA	ARG	23	1.200	8.749	-1.594	1.00	0.00
ATOM	386	CB	ARG	23	2.708	8.104	-0.225	1.00	0.00
ATOM	387	HB2	ARG	23	3.485	7.341	-0.274	1.00	0.00
ATOM	388	HB3	ARG	23	3.117	9.010	0.220	1.00	0.00
ATOM	389	CG	ARG	23	1.551	7.596	0.629	1.00	0.00

ATOM	390	HG2 ARG	23	1.703	7.921	1.658	1.00	0.00
ATOM	391	HG3 ARG	23	0.621	8.018	0.249	1.00	0.00
ATOM	392	CD ARG	23	1.474	6.075	0.584	1.00	0.00
ATOM	393	HD2 ARG	23	0.552	5.760	0.095	1.00	0.00
ATOM	394	HD3 ARG	23	2.328	5.672	0.040	1.00	0.00
ATOM	395	NE ARG	23	1.490	5.530	1.969	1.00	0.00
ATOM	396	HE ARG	23	0.706	4.940	2.210	1.00	0.00
ATOM	397	CZ ARG	23	2.448	5.684	2.847	1.00	0.00
ATOM	398	NH1 ARG	23	3.475	6.437	2.545	1.00	0.00
ATOM	399	HH11 ARG	23	3.518	6.889	1.643	1.00	0.00
ATOM	400	HH12 ARG	23	4.220	6.562	3.215	1.00	0.00
ATOM	401	NH2 ARG	23	2.347	5.164	4.044	1.00	0.00
ATOM	402	HH21 ARG	23	1.522	4.638	4.295	1.00	0.00
ATOM	403	HH22 ARG	23	3.094	5.291	4.711	1.00	0.00
ATOM	404	C ARG	23	3.053	9.589	-2.184	1.00	0.00
ATOM	405	O ARG	23	2.839	10.736	-1.791	1.00	0.00
ATOM	406	N GLN	24	3.988	9.298	-3.082	1.00	0.00
ATOM	407	H GLN	24	4.175	8.332	-3.311	1.00	0.00
ATOM	408	CA GLN	24	4.794	10.315	-3.704	1.00	0.00
ATOM	409	HA GLN	24	5.011	11.108	-2.988	1.00	0.00
ATOM	410	CB GLN	24	6.114	9.718	-4.185	1.00	0.00
ATOM	411	HB2 GLN	24	5.988	8.644	-4.322	1.00	0.00

ATOM	412	HB3	GLN	24	6.384	10.176	-5.137	1.00	0.00
ATOM	413	CG	GLN	24	7.223	9.974	-3.164	1.00	0.00
ATOM	414	HG2	GLN	24	7.940	10.679	-3.584	1.00	0.00
ATOM	415	HG3	GLN	24	6.778	10.401	-2.266	1.00	0.00
ATOM	416	CD	GLN	24	7.957	8.705	-2.784	1.00	0.00
ATOM	417	OE1	GLN	24	7.982	7.736	-3.515	1.00	0.00
ATOM	418	NE2	GLN	24	8.573	8.707	-1.623	1.00	0.00
ATOM	419	HE21	GLN	24	9.078	7.886	-1.321	1.00	0.00
ATOM	420	HE22	GLN	24	8.539	9.529	-1.038	1.00	0.00
ATOM	421	C	GLN	24	4.058	10.973	-4.858	1.00	0.00
ATOM	422	O	GLN	24	4.487	12.002	-5.367	1.00	0.00
ATOM	423	N	GLN	25	2.946	10.355	-5.284	1.00	0.00
ATOM	424	H	GLN	25	2.687	9.461	-4.892	1.00	0.00
ATOM	425	CA	GLN	25	2.136	10.896	-6.348	1.00	0.00
ATOM	426	HA	GLN	25	2.773	11.224	-7.169	1.00	0.00
ATOM	427	CB	GLN	25	1.169	9.831	-6.874	1.00	0.00
ATOM	428	HB2	GLN	25	1.262	8.933	-6.264	1.00	0.00
ATOM	429	HB3	GLN	25	0.150	10.211	-6.807	1.00	0.00
ATOM	430	CG	GLN	25	1.491	9.493	-8.329	1.00	0.00
ATOM	431	HG2	GLN	25	2.572	9.358	-8.351	1.00	0.00
ATOM	432	HG3	GLN	25	1.005	8.578	-8.669	1.00	0.00
ATOM	433	CD	GLN	25	1.123	10.620	-9.278	1.00	0.00

ATOM	434	OE1	GLN	25	0.631	11.662	-8.925	1.00	0.00
ATOM	435	NE2	GLN	25	1.273	10.374	-10.562	1.00	0.00
ATOM	436	HE21	GLN	25	1.044	11.087	-11.240	1.00	0.00
ATOM	437	HE22	GLN	25	1.617	9.473	-10.864	1.00	0.00
ATOM	438	C	GLN	25	1.384	12.138	-5.874	1.00	0.00
ATOM	439	O	GLN	25	0.771	12.869	-6.640	1.00	0.00
ATOM	440	N	LEU	26	1.395	12.388	-4.568	1.00	0.00
ATOM	441	H	LEU	26	1.818	11.712	-3.948	1.00	0.00
ATOM	442	CA	LEU	26	0.720	13.516	-3.988	1.00	0.00
ATOM	443	HA	LEU	26	0.202	14.075	-4.767	1.00	0.00
ATOM	444	CB	LEU	26	-0.311	13.054	-2.947	1.00	0.00
ATOM	445	HB2	LEU	26	0.204	13.154	-1.992	1.00	0.00
ATOM	446	HB3	LEU	26	-1.161	13.735	-2.975	1.00	0.00
ATOM	447	CG	LEU	26	-0.807	11.610	-3.111	1.00	0.00
ATOM	448	HG	LEU	26	-0.692	11.310	-4.153	1.00	0.00
ATOM	449	CD1	LEU	26	-0.007	10.672	-2.224	1.00	0.00
ATOM	450	HD11	LEU	26	-0.122	10.970	-1.182	1.00	0.00
ATOM	451	HD12	LEU	26	-0.371	9.652	-2.352	1.00	0.00
ATOM	452	HD13	LEU	26	1.046	10.719	-2.501	1.00	0.00
ATOM	453	CD2	LEU	26	-2.297	11.509	-2.789	1.00	0.00
ATOM	454	HD21	LEU	26	-2.860	12.152	-3.465	1.00	0.00
ATOM	455	HD22	LEU	26	-2.627	10.477	-2.912	1.00	0.00

ATOM	456	HD23	LEU	26	-2.469	11.825	-1.760	1.00	0.00
ATOM	457	C	LEU	26	1.753	14.486	-3.441	1.00	0.00
ATOM	458	O	LEU	26	2.947	14.362	-3.684	1.00	0.00
ATOM	459	N	ALA	27	1.280	15.451	-2.655	1.00	0.00
ATOM	460	H	ALA	27	0.282	15.550	-2.532	1.00	0.00
ATOM	461	CA	ALA	27	2.151	16.427	-2.028	1.00	0.00
ATOM	462	HA	ALA	27	3.047	16.578	-2.630	1.00	0.00
ATOM	463	CB	ALA	27	1.404	17.751	-1.926	1.00	0.00
ATOM	464	HB1	ALA	27	0.509	17.618	-1.319	1.00	0.00
ATOM	465	HB2	ALA	27	2.049	18.498	-1.463	1.00	0.00
ATOM	466	HB3	ALA	27	1.119	18.086	-2.924	1.00	0.00
ATOM	467	C	ALA	27	2.627	15.913	-0.672	1.00	0.00
ATOM	468	O	ALA	27	3.066	16.680	0.180	1.00	0.00
ATOM	469	N	GLY	28	2.483	14.600	-0.439	1.00	0.00
ATOM	470	H	GLY	28	2.056	14.023	-1.150	1.00	0.00
ATOM	471	CA	GLY	28	2.912	13.970	0.788	1.00	0.00
ATOM	472	HA2	GLY	28	2.704	14.641	1.621	1.00	0.00
ATOM	473	HA3	GLY	28	2.356	13.042	0.922	1.00	0.00
ATOM	474	C	GLY	28	4.400	13.657	0.764	1.00	0.00
ATOM	475	O	GLY	28	4.878	12.893	1.597	1.00	0.00
ATOM	476	N	SER	29	5.120	14.202	-0.217	1.00	0.00
ATOM	477	H	SER	29	4.646	14.745	-0.924	1.00	0.00

ATOM	478	CA	SER	29	6.542	14.002	-0.348	1.00	0.00
ATOM	479	HA	SER	29	6.994	13.866	0.634	1.00	0.00
ATOM	480	CB	SER	29	6.815	12.756	-1.187	1.00	0.00
ATOM	481	HB2	SER	29	6.565	11.889	-0.575	1.00	0.00
ATOM	482	HB3	SER	29	6.152	12.793	-2.051	1.00	0.00
ATOM	483	OG	SER	29	8.155	12.652	-1.626	1.00	0.00
ATOM	484	HG	SER	29	8.260	11.851	-2.146	1.00	0.00
ATOM	485	C	SER	29	7.214	15.209	-0.959	1.00	0.00
ATOM	486	O	SER	29	6.568	15.939	-1.682	1.00	0.00
ATOM	487	N	PRO	30	8.473	15.453	-0.593	1.00	0.00
ATOM	488	CD	PRO	30	9.256	14.642	0.323	1.00	0.00
ATOM	489	HD2	PRO	30	9.426	13.673	-0.147	1.00	0.00
ATOM	490	HD3	PRO	30	8.673	14.506	1.234	1.00	0.00
ATOM	491	CG	PRO	30	10.551	15.408	0.570	1.00	0.00
ATOM	492	HG2	PRO	30	11.390	14.816	0.203	1.00	0.00
ATOM	493	HG3	PRO	30	10.666	15.576	1.641	1.00	0.00
ATOM	494	CB	PRO	30	10.432	16.736	-0.182	1.00	0.00
ATOM	495	HB2	PRO	30	11.334	16.954	-0.754	1.00	0.00
ATOM	496	HB3	PRO	30	10.231	17.557	0.506	1.00	0.00
ATOM	497	CA	PRO	30	9.250	16.549	-1.128	1.00	0.00
ATOM	498	HA	PRO	30	8.639	17.450	-1.079	1.00	0.00
ATOM	499	C	PRO	30	9.678	16.309	-2.555	1.00	0.00

ATOM	500	O	PRO	30	9.352	15.278	-3.132	1.00	0.00
ATOM	501	N	PHE	31	10.447	17.253	-3.109	1.00	0.00
ATOM	502	H	PHE	31	10.718	18.060	-2.566	1.00	0.00
ATOM	503	CA	PHE	31	10.918	17.155	-4.472	1.00	0.00
ATOM	504	HA	PHE	31	11.173	16.126	-4.726	1.00	0.00
ATOM	505	CB	PHE	31	9.788	17.621	-5.395	1.00	0.00
ATOM	506	HB2	PHE	31	9.720	18.707	-5.453	1.00	0.00
ATOM	507	HB3	PHE	31	10.014	17.219	-6.383	1.00	0.00
ATOM	508	CG	PHE	31	8.405	17.119	-5.029	1.00	0.00
ATOM	509	CD1	PHE	31	7.998	15.830	-5.408	1.00	0.00
ATOM	510	HD1	PHE	31	8.660	15.212	-6.016	1.00	0.00
ATOM	511	CE1	PHE	31	6.747	15.335	-5.009	1.00	0.00
ATOM	512	HE1	PHE	31	6.455	14.317	-5.268	1.00	0.00
ATOM	513	CZ	PHE	31	5.874	16.149	-4.278	1.00	0.00
ATOM	514	HZ	PHE	31	4.882	15.786	-4.007	1.00	0.00
ATOM	515	CE2	PHE	31	6.280	17.438	-3.893	1.00	0.00
ATOM	516	HE2	PHE	31	5.599	18.071	-3.324	1.00	0.00
ATOM	517	CD2	PHE	31	7.554	17.911	-4.238	1.00	0.00
ATOM	518	HD2	PHE	31	7.883	18.891	-3.893	1.00	0.00
ATOM	519	C	PHE	31	12.136	18.035	-4.692	1.00	0.00
ATOM	520	O	PHE	31	12.270	19.079	-4.050	1.00	0.00
ATOM	521	N	SER	32	13.016	17.608	-5.595	1.00	0.00



ATOM	522	H	SER	32	12.876	16.718	-6.053	1.00	0.00
ATOM	523	CA	SER	32	14.214	18.363	-5.911	1.00	0.00
ATOM	524	HA	SER	32	14.115	19.384	-5.544	1.00	0.00
ATOM	525	CB	SER	32	15.443	17.720	-5.250	1.00	0.00
ATOM	526	HB2	SER	32	15.130	16.789	-4.777	1.00	0.00
ATOM	527	HB3	SER	32	16.176	17.503	-6.027	1.00	0.00
ATOM	528	OG	SER	32	16.023	18.570	-4.280	1.00	0.00
ATOM	529	HG	SER	32	16.785	18.136	-3.890	1.00	0.00
ATOM	530	C	SER	32	14.395	18.443	-7.419	1.00	0.00
ATOM	531	O	SER	32	14.036	19.440	-8.045	1.00	0.00
ATOM	532	N	GLU	33	14.948	17.375	-8.003	1.00	0.00
ATOM	533	H	GLU	33	15.276	16.609	-7.433	1.00	0.00
ATOM	534	CA	GLU	33	15.181	17.317	-9.425	1.00	0.00
ATOM	535	HA	GLU	33	15.376	18.319	-9.807	1.00	0.00
ATOM	536	CB	GLU	33	16.391	16.428	-9.739	1.00	0.00
ATOM	537	HB2	GLU	33	16.662	15.881	-8.836	1.00	0.00
ATOM	538	HB3	GLU	33	16.108	15.722	-10.520	1.00	0.00
ATOM	539	CG	GLU	33	17.583	17.255	-10.209	1.00	0.00
ATOM	540	HG2	GLU	33	17.702	17.115	-11.284	1.00	0.00
ATOM	541	HG3	GLU	33	17.389	18.306	-9.999	1.00	0.00
ATOM	542	CD	GLU	33	18.861	16.821	-9.495	1.00	0.00
ATOM	543	OE1	GLU	33	19.242	15.641	-9.672	1.00	0.00

ATOM	544	OE2	GLU	33	19.432	17.674	-8.783	1.00	0.00
ATOM	545	C	GLU	33	13.925	16.846	-10.148	1.00	0.00
ATOM	546	O	GLU	33	12.842	16.752	-9.563	1.00	0.00
ATOM	547	N	ASN	34	14.077	16.521	-11.437	1.00	0.00
ATOM	548	H	ASN	34	14.975	16.646	-11.881	1.00	0.00
ATOM	549	CA	ASN	34	12.994	16.002	-12.225	1.00	0.00
ATOM	550	HA	ASN	34	12.044	16.395	-11.863	1.00	0.00
ATOM	551	CB	ASN	34	13.170	16.417	-13.684	1.00	0.00
ATOM	552	HB2	ASN	34	14.237	16.443	-13.907	1.00	0.00
ATOM	553	HB3	ASN	34	12.679	15.700	-14.342	1.00	0.00
ATOM	554	CG	ASN	34	12.588	17.789	-13.944	1.00	0.00
ATOM	555	OD1	ASN	34	11.520	18.144	-13.474	1.00	0.00
ATOM	556	ND2	ASN	34	13.304	18.565	-14.734	1.00	0.00
ATOM	557	HD21	ASN	34	12.978	19.495	-14.953	1.00	0.00
ATOM	558	HD22	ASN	34	14.175	18.225	-15.117	1.00	0.00
ATOM	559	C	ASN	34	12.951	14.492	-12.144	1.00	0.00
ATOM	560	O	ASN	34	13.997	13.846	-12.087	1.00	0.00
ATOM	561	N	GLN	35	11.751	13.928	-12.236	1.00	0.00
ATOM	562	H	GLN	35	10.933	14.519	-12.278	1.00	0.00
ATOM	563	CA	GLN	35	11.561	12.500	-12.218	1.00	0.00
ATOM	564	HA	GLN	35	12.063	12.054	-13.077	1.00	0.00
ATOM	565	CB	GLN	35	12.139	11.888	-10.942	1.00	0.00

ATOM	566	HB2	GLN	35	12.919	12.549	-10.566	1.00	0.00
ATOM	567	HB3	GLN	35	11.340	11.813	-10.204	1.00	0.00
ATOM	568	CG	GLN	35	12.726	10.504	-11.198	1.00	0.00
ATOM	569	HG2	GLN	35	12.961	10.021	-10.249	1.00	0.00
ATOM	570	HG3	GLN	35	11.988	9.908	-11.735	1.00	0.00
ATOM	571	CD	GLN	35	13.994	10.576	-12.034	1.00	0.00
ATOM	572	OE1	GLN	35	15.036	11.036	-11.611	1.00	0.00
ATOM	573	NE2	GLN	35	13.888	10.085	-13.258	1.00	0.00
ATOM	574	HE21	GLN	35	14.688	10.097	-13.875	1.00	0.00
ATOM	575	HE22	GLN	35	13.008	9.700	-13.570	1.00	0.00
ATOM	576	C	GLN	35	10.094	12.180	-12.351	1.00	0.00
ATOM	577	O	GLN	35	9.250	13.033	-12.072	1.00	0.00
ATOM	578	N	TRP	36	9.798	10.923	-12.730	1.00	0.00
ATOM	579	H	TRP	36	10.540	10.282	-12.973	1.00	0.00
ATOM	580	CA	TRP	36	8.423	10.468	-12.864	1.00	0.00
ATOM	581	HA	TRP	36	7.967	10.926	-13.742	1.00	0.00
ATOM	582	CB	TRP	36	8.372	8.945	-13.025	1.00	0.00
ATOM	583	HB2	TRP	36	8.656	8.660	-14.038	1.00	0.00
ATOM	584	HB3	TRP	36	9.063	8.493	-12.314	1.00	0.00
ATOM	585	CG	TRP	36	7.025	8.329	-12.766	1.00	0.00
ATOM	586	CD1	TRP	36	6.343	8.249	-11.590	1.00	0.00
ATOM	587	HD1	TRP	36	6.850	8.678	-10.726	1.00	0.00

ATOM	588	NE1 TRP	36	5.119	7.622	-11.751	1.00	0.00
ATOM	589	HE1 TRP	36	4.452	7.437	-11.016	1.00	0.00
ATOM	590	CE2 TRP	36	4.968	7.272	-13.072	1.00	0.00
ATOM	591	CZ2 TRP	36	3.940	6.617	-13.751	1.00	0.00
ATOM	592	HZ2 TRP	36	3.060	6.314	-13.184	1.00	0.00
ATOM	593	CH2 TRP	36	4.104	6.389	-15.126	1.00	0.00
ATOM	594	HH2 TRP	36	3.325	5.881	-15.695	1.00	0.00
ATOM	595	CZ3 TRP	36	5.270	6.810	-15.791	1.00	0.00
ATOM	596	HZ3 TRP	36	5.386	6.627	-16.860	1.00	0.00
ATOM	597	CE3 TRP	36	6.309	7.468	-15.120	1.00	0.00
ATOM	598	HE3 TRP	36	7.193	7.761	-15.686	1.00	0.00
ATOM	599	CD2 TRP	36	6.168	7.708	-13.739	1.00	0.00
ATOM	600	C TRP	36	7.620	10.930	-11.640	1.00	0.00
ATOM	601	O TRP	36	6.425	11.179	-11.732	1.00	0.00
ATOM	602	N GLY	37	8.298	11.028	-10.484	1.00	0.00
ATOM	603	H GLY	37	9.262	10.728	-10.449	1.00	0.00
ATOM	604	CA GLY	37	7.702	11.546	-9.284	1.00	0.00
ATOM	605	HA2 GLY	37	7.258	12.518	-9.496	1.00	0.00
ATOM	606	HA3 GLY	37	6.926	10.859	-8.945	1.00	0.00
ATOM	607	C GLY	37	8.735	11.704	-8.186	1.00	0.00
ATOM	608	O GLY	37	9.277	12.789	-7.990	1.00	0.00
ATOM	609	N PRO	38	9.034	10.595	-7.492	1.00	0.00

ATOM	610	CD	PRO	38	8.448	9.274	-7.686	1.00	0.00
ATOM	611	HD2	PRO	38	8.790	8.894	-8.649	1.00	0.00
ATOM	612	HD3	PRO	38	7.364	9.388	-7.705	1.00	0.00
ATOM	613	CG	PRO	38	8.923	8.416	-6.515	1.00	0.00
ATOM	614	HG2	PRO	38	9.533	7.597	-6.896	1.00	0.00
ATOM	615	HG3	PRO	38	8.056	8.010	-5.993	1.00	0.00
ATOM	616	CB	PRO	38	9.730	9.334	-5.600	1.00	0.00
ATOM	617	HB2	PRO	38	10.671	8.866	-5.310	1.00	0.00
ATOM	618	HB3	PRO	38	9.163	9.593	-4.706	1.00	0.00
ATOM	619	CA	PRO	38	10.006	10.583	-6.420	1.00	0.00
ATOM	620	HA	PRO	38	9.815	11.436	-5.769	1.00	0.00
ATOM	621	C	PRO	38	11.414	10.665	-6.955	1.00	0.00
ATOM	622	O	PRO	38	12.127	9.677	-7.003	1.00	0.00
ATOM	623	N	GLN	39	11.839	11.854	-7.372	1.00	0.00
ATOM	624	H	GLN	39	11.210	12.643	-7.356	1.00	0.00
ATOM	625	CA	GLN	39	13.166	12.047	-7.909	1.00	0.00
ATOM	626	HA	GLN	39	13.323	11.386	-8.762	1.00	0.00
ATOM	627	CB	GLN	39	13.340	13.498	-8.375	1.00	0.00
ATOM	628	HB2	GLN	39	12.519	13.763	-9.042	1.00	0.00
ATOM	629	HB3	GLN	39	13.332	14.158	-7.508	1.00	0.00
ATOM	630	CG	GLN	39	14.671	13.649	-9.119	1.00	0.00
ATOM	631	HG2	GLN	39	14.802	12.819	-9.814	1.00	0.00

ATOM	632	HG3	GLN	39	14.633	14.586	-9.675	1.00	0.00
ATOM	633	CD	GLN	39	15.862	13.689	-8.182	1.00	0.00
ATOM	634	OE1	GLN	39	15.752	14.072	-7.020	1.00	0.00
ATOM	635	NE2	GLN	39	17.000	13.263	-8.685	1.00	0.00
ATOM	636	HE21	GLN	39	17.833	13.263	-8.114	1.00	0.00
ATOM	637	HE22	GLN	39	17.036	12.937	-9.641	1.00	0.00
ATOM	638	C	GLN	39	14.214	11.681	-6.871	1.00	0.00
ATOM	639	O	GLN	39	15.276	11.164	-7.212	1.00	0.00
ATOM	640	N	GLN	40	13.893	11.929	-5.597	1.00	0.00
ATOM	641	H	GLN	40	13.025	12.395	-5.375	1.00	0.00
ATOM	642	CA	GLN	40	14.790	11.606	-4.518	1.00	0.00
ATOM	643	HA	GLN	40	15.825	11.703	-4.847	1.00	0.00
ATOM	644	CB	GLN	40	14.556	12.564	-3.351	1.00	0.00
ATOM	645	HB2	GLN	40	14.336	13.557	-3.743	1.00	0.00
ATOM	646	HB3	GLN	40	13.709	12.210	-2.764	1.00	0.00
ATOM	647	CG	GLN	40	15.803	12.631	-2.460	1.00	0.00
ATOM	648	HG2	GLN	40	16.630	12.213	-3.035	1.00	0.00
ATOM	649	HG3	GLN	40	16.034	13.661	-2.188	1.00	0.00
ATOM	650	CD	GLN	40	15.637	11.815	-1.182	1.00	0.00
ATOM	651	OE1	GLN	40	14.561	11.369	-0.803	1.00	0.00
ATOM	652	NE2	GLN	40	16.735	11.654	-0.464	1.00	0.00
ATOM	653	HE21	GLN	40	16.700	11.124	0.395	1.00	0.00

ATOM	654	HE22	GLN	40	17.604	12.061	-0.778	1.00	0.00
ATOM	655	C	GLN	40	14.617	10.154	-4.079	1.00	0.00
ATOM	656	O	GLN	40	15.340	9.661	-3.223	1.00	0.00
ATOM	657	N	GLY	41	13.636	9.461	-4.658	1.00	0.00
ATOM	658	H	GLY	41	13.045	9.934	-5.326	1.00	0.00
ATOM	659	CA	GLY	41	13.375	8.069	-4.379	1.00	0.00
ATOM	660	HA2	GLY	41	14.307	7.583	-4.091	1.00	0.00
ATOM	661	HA3	GLY	41	12.660	7.998	-3.560	1.00	0.00
ATOM	662	C	GLY	41	12.806	7.363	-5.592	1.00	0.00
ATOM	663	O	GLY	41	11.682	6.904	-5.587	1.00	0.00
ATOM	664	N	PRO	42	13.559	7.293	-6.689	1.00	0.00
ATOM	665	CD	PRO	42	14.900	7.822	-6.827	1.00	0.00
ATOM	666	HD2	PRO	42	15.558	7.245	-6.177	1.00	0.00
ATOM	667	HD3	PRO	42	14.887	8.861	-6.500	1.00	0.00
ATOM	668	CG	PRO	42	15.263	7.681	-8.302	1.00	0.00
ATOM	669	HG2	PRO	42	16.113	7.004	-8.396	1.00	0.00
ATOM	670	HG3	PRO	42	15.534	8.660	-8.696	1.00	0.00
ATOM	671	CB	PRO	42	14.026	7.127	-9.016	1.00	0.00
ATOM	672	HB2	PRO	42	14.295	6.297	-9.669	1.00	0.00
ATOM	673	HB3	PRO	42	13.521	7.898	-9.598	1.00	0.00
ATOM	674	CA	PRO	42	13.109	6.633	-7.901	1.00	0.00
ATOM	675	HA	PRO	42	12.096	6.971	-8.119	1.00	0.00

ATOM	676	C	PRO	42	13.118	5.127	-7.760	1.00	0.00
ATOM	677	O	PRO	42	12.279	4.436	-8.351	1.00	0.00
ATOM	678	N	SER	43	14.053	4.629	-6.958	1.00	0.00
ATOM	679	H	SER	43	14.715	5.260	-6.531	1.00	0.00
ATOM	680	CA	SER	43	14.201	3.214	-6.714	1.00	0.00
ATOM	681	HA	SER	43	14.098	2.671	-7.654	1.00	0.00
ATOM	682	CB	SER	43	15.573	2.895	-6.113	1.00	0.00
ATOM	683	HB2	SER	43	15.471	2.842	-5.029	1.00	0.00
ATOM	684	HB3	SER	43	15.900	1.927	-6.494	1.00	0.00
ATOM	685	OG	SER	43	16.534	3.886	-6.451	1.00	0.00
ATOM	686	HG	SER	43	17.380	3.657	-6.060	1.00	0.00
ATOM	687	C	SER	43	13.085	2.734	-5.793	1.00	0.00
ATOM	688	O	SER	43	13.294	2.423	-4.627	1.00	0.00
ATOM	689	N	LEU	44	11.858	2.689	-6.310	1.00	0.00
ATOM	690	H	LEU	44	11.715	2.997	-7.261	1.00	0.00
ATOM	691	CA	LEU	44	10.713	2.266	-5.552	1.00	0.00
ATOM	692	HA	LEU	44	11.037	1.802	-4.620	1.00	0.00
ATOM	693	CB	LEU	44	9.823	3.463	-5.219	1.00	0.00
ATOM	694	HB2	LEU	44	10.041	4.209	-5.983	1.00	0.00
ATOM	695	HB3	LEU	44	8.779	3.159	-5.296	1.00	0.00
ATOM	696	CG	LEU	44	10.081	4.065	-3.827	1.00	0.00
ATOM	697	HG	LEU	44	11.072	3.760	-3.492	1.00	0.00



ATOM	698	CD1 LEU	44	10.005	5.573	-3.867	1.00	0.00
ATOM	699	HD11 LEU	44	9.014	5.878	-4.202	1.00	0.00
ATOM	700	HD12 LEU	44	10.191	5.973	-2.871	1.00	0.00
ATOM	701	HD13 LEU	44	10.755	5.957	-4.558	1.00	0.00
ATOM	702	CD2 LEU	44	9.094	3.537	-2.808	1.00	0.00
ATOM	703	HD21 LEU	44	9.187	2.453	-2.739	1.00	0.00
ATOM	704	HD22 LEU	44	9.303	3.981	-1.835	1.00	0.00
ATOM	705	HD23 LEU	44	8.081	3.795	-3.115	1.00	0.00
ATOM	706	C LEU	44	9.985	1.239	-6.358	1.00	0.00
ATOM	707	O LEU	44	9.571	0.271	-5.792	1.00	0.00
ATOM	708	N ARG	45	9.821	1.411	-7.665	1.00	0.00
ATOM	709	H ARG	45	10.190	2.252	-8.084	1.00	0.00
ATOM	710	CA ARG	45	9.147	0.460	-8.518	1.00	0.00
ATOM	711	HA ARG	45	8.134	0.291	-8.152	1.00	0.00
ATOM	712	CB ARG	45	9.067	0.981	-9.949	1.00	0.00
ATOM	713	HB2 ARG	45	10.069	1.262	-10.274	1.00	0.00
ATOM	714	HB3 ARG	45	8.689	0.183	-10.589	1.00	0.00
ATOM	715	CG ARG	45	8.144	2.190	-10.045	1.00	0.00
ATOM	716	HG2 ARG	45	8.653	3.048	-9.606	1.00	0.00
ATOM	717	HG3 ARG	45	7.943	2.387	-11.098	1.00	0.00
ATOM	718	CD ARG	45	6.816	1.949	-9.306	1.00	0.00
ATOM	719	HD2 ARG	45	6.584	0.884	-9.307	1.00	0.00

ATOM	720	HD3	ARG	45	6.899	2.301	-8.278	1.00	0.00
ATOM	721	NE	ARG	45	5.717	2.671	-9.964	1.00	0.00
ATOM	722	HE	ARG	45	4.978	2.108	-10.361	1.00	0.00
ATOM	723	CZ	ARG	45	5.615	3.985	-10.036	1.00	0.00
ATOM	724	NH1	ARG	45	6.520	4.759	-9.474	1.00	0.00
ATOM	725	HH11	ARG	45	7.300	4.345	-8.983	1.00	0.00
ATOM	726	HH12	ARG	45	6.430	5.763	-9.537	1.00	0.00
ATOM	727	NH2	ARG	45	4.627	4.532	-10.705	1.00	0.00
ATOM	728	HH21	ARG	45	3.946	3.944	-11.164	1.00	0.00
ATOM	729	HH22	ARG	45	4.553	5.538	-10.758	1.00	0.00
ATOM	730	C	ARG	45	9.880	-0.839	-8.537	1.00	0.00
ATOM	731	O	ARG	45	9.403	-1.789	-7.990	1.00	0.00
ATOM	732	N	GLU	46	11.081	-0.876	-9.077	1.00	0.00
ATOM	733	H	GLU	46	11.459	-0.036	-9.490	1.00	0.00
ATOM	734	CA	GLU	46	11.876	-2.092	-9.138	1.00	0.00
ATOM	735	HA	GLU	46	11.362	-2.842	-9.739	1.00	0.00
ATOM	736	CB	GLU	46	13.240	-1.803	-9.776	1.00	0.00
ATOM	737	HB2	GLU	46	13.706	-0.971	-9.249	1.00	0.00
ATOM	738	HB3	GLU	46	13.868	-2.689	-9.681	1.00	0.00
ATOM	739	CG	GLU	46	13.082	-1.445	-11.259	1.00	0.00
ATOM	740	HG2	GLU	46	12.844	-2.362	-11.799	1.00	0.00
ATOM	741	HG3	GLU	46	12.268	-0.731	-11.382	1.00	0.00

ATOM	742	CD	GLU	46	14.373	-0.847	-11.815	1.00	0.00
ATOM	743	OE1	GLU	46	14.875	0.113	-11.185	1.00	0.00
ATOM	744	OE2	GLU	46	14.825	-1.338	-12.869	1.00	0.00
ATOM	745	C	GLU	46	12.069	-2.679	-7.740	1.00	0.00
ATOM	746	O	GLU	46	12.348	-3.866	-7.599	1.00	0.00
ATOM	747	N	GLN	47	11.884	-1.843	-6.706	1.00	0.00
ATOM	748	H	GLN	47	11.705	-0.867	-6.891	1.00	0.00
ATOM	749	CA	GLN	47	11.983	-2.267	-5.346	1.00	0.00
ATOM	750	HA	GLN	47	12.749	-3.037	-5.252	1.00	0.00
ATOM	751	CB	GLN	47	12.361	-1.093	-4.453	1.00	0.00
ATOM	752	HB2	GLN	47	12.314	-0.173	-5.035	1.00	0.00
ATOM	753	HB3	GLN	47	11.656	-1.035	-3.624	1.00	0.00
ATOM	754	CG	GLN	47	13.781	-1.278	-3.904	1.00	0.00
ATOM	755	HG2	GLN	47	13.859	-2.260	-3.436	1.00	0.00
ATOM	756	HG3	GLN	47	14.511	-1.202	-4.710	1.00	0.00
ATOM	757	CD	GLN	47	14.096	-0.216	-2.861	1.00	0.00
ATOM	758	OE1	GLN	47	15.055	0.533	-2.962	1.00	0.00
ATOM	759	NE2	GLN	47	13.270	-0.165	-1.827	1.00	0.00
ATOM	760	HE21	GLN	47	13.421	0.516	-1.097	1.00	0.00
ATOM	761	HE22	GLN	47	12.493	-0.808	-1.773	1.00	0.00
ATOM	762	C	GLN	47	10.695	-2.880	-4.890	1.00	0.00
ATOM	763	O	GLN	47	10.745	-3.978	-4.424	1.00	0.00

ATOM	764	N	CYX	48	9.560	-2.224	-5.027	1.00	0.00
ATOM	765	H	CYX	48	9.649	-1.296	-5.415	1.00	0.00
ATOM	766	CA	CYX	48	8.260	-2.678	-4.650	1.00	0.00
ATOM	767	HA	CYX	48	8.300	-3.039	-3.622	1.00	0.00
ATOM	768	CB	CYX	48	7.208	-1.583	-4.740	1.00	0.00
ATOM	769	HB2	CYX	48	6.905	-1.287	-3.736	1.00	0.00
ATOM	770	HB3	CYX	48	7.623	-0.722	-5.263	1.00	0.00
ATOM	771	SG	CYX	48	5.673	-2.013	-5.597	1.00	0.00
ATOM	772	C	CYX	48	7.884	-3.823	-5.532	1.00	0.00
ATOM	773	O	CYX	48	7.426	-4.828	-5.064	1.00	0.00
ATOM	774	N	CYX	49	8.113	-3.736	-6.834	1.00	0.00
ATOM	775	H	CYX	49	8.473	-2.854	-7.168	1.00	0.00
ATOM	776	CA	CYX	49	7.843	-4.771	-7.797	1.00	0.00
ATOM	777	HA	CYX	49	6.765	-4.910	-7.875	1.00	0.00
ATOM	778	CB	CYX	49	8.395	-4.427	-9.187	1.00	0.00
ATOM	779	HB2	CYX	49	9.476	-4.300	-9.128	1.00	0.00
ATOM	780	HB3	CYX	49	8.163	-5.235	-9.881	1.00	0.00
ATOM	781	SG	CYX	49	7.774	-2.896	-9.940	1.00	0.00
ATOM	782	C	CYX	49	8.449	-6.071	-7.278	1.00	0.00
ATOM	783	O	CYX	49	7.999	-7.145	-7.648	1.00	0.00
ATOM	784	N	ASN	50	9.481	-5.975	-6.427	1.00	0.00
ATOM	785	H	ASN	50	9.853	-5.059	-6.222	1.00	0.00

ATOM	786	CA	ASN	50	10.069	-7.104	-5.782	1.00	0.00
ATOM	787	HA	ASN	50	9.804	-8.023	-6.305	1.00	0.00
ATOM	788	CB	ASN	50	11.585	-6.955	-5.798	1.00	0.00
ATOM	789	HB2	ASN	50	11.867	-5.938	-6.071	1.00	0.00
ATOM	790	HB3	ASN	50	11.969	-7.184	-4.804	1.00	0.00
ATOM	791	CG	ASN	50	12.209	-7.911	-6.788	1.00	0.00
ATOM	792	OD1	ASN	50	12.777	-8.935	-6.440	1.00	0.00
ATOM	793	ND2	ASN	50	12.077	-7.575	-8.058	1.00	0.00
ATOM	794	HD21	ASN	50	12.469	-8.167	-8.777	1.00	0.00
ATOM	795	HD22	ASN	50	11.585	-6.729	-8.305	1.00	0.00
ATOM	796	C	ASN	50	9.628	-7.206	-4.353	1.00	0.00
ATOM	797	O	ASN	50	9.390	-8.285	-3.901	1.00	0.00
ATOM	798	N	GLU	51	9.515	-6.117	-3.624	1.00	0.00
ATOM	799	H	GLU	51	9.811	-5.261	-4.069	1.00	0.00
ATOM	800	CA	GLU	51	9.099	-6.062	-2.251	1.00	0.00
ATOM	801	HA	GLU	51	9.681	-6.779	-1.672	1.00	0.00
ATOM	802	CB	GLU	51	9.303	-4.666	-1.651	1.00	0.00
ATOM	803	HB2	GLU	51	9.876	-4.766	-0.729	1.00	0.00
ATOM	804	HB3	GLU	51	9.864	-4.062	-2.364	1.00	0.00
ATOM	805	CG	GLU	51	7.968	-3.989	-1.349	1.00	0.00
ATOM	806	HG2	GLU	51	7.425	-4.001	-2.295	1.00	0.00
ATOM	807	HG3	GLU	51	7.387	-4.514	-0.591	1.00	0.00

ATOM	808	CD	GLU	51	8.185	-2.585	-0.921	1.00	0.00
ATOM	809	OE1	GLU	51	8.450	-2.285	0.260	1.00	0.00
ATOM	810	OE2	GLU	51	7.991	-1.745	-1.792	1.00	0.00
ATOM	811	C	GLU	51	7.646	-6.520	-2.132	1.00	0.00
ATOM	812	O	GLU	51	7.149	-6.747	-1.039	1.00	0.00
ATOM	813	N	LEU	52	6.952	-6.645	-3.257	1.00	0.00
ATOM	814	H	LEU	52	7.387	-6.331	-4.113	1.00	0.00
ATOM	815	CA	LEU	52	5.584	-7.057	-3.303	1.00	0.00
ATOM	816	HA	LEU	52	5.160	-7.065	-2.299	1.00	0.00
ATOM	817	CB	LEU	52	4.776	-6.079	-4.169	1.00	0.00
ATOM	818	HB2	LEU	52	3.896	-5.909	-3.549	1.00	0.00
ATOM	819	HB3	LEU	52	5.322	-5.143	-4.288	1.00	0.00
ATOM	820	CG	LEU	52	4.340	-6.594	-5.545	1.00	0.00
ATOM	821	HG	LEU	52	3.973	-5.745	-6.122	1.00	0.00
ATOM	822	CD1	LEU	52	5.469	-7.261	-6.294	1.00	0.00
ATOM	823	HD11	LEU	52	5.836	-8.111	-5.718	1.00	0.00
ATOM	824	HD12	LEU	52	5.108	-7.608	-7.262	1.00	0.00
ATOM	825	HD13	LEU	52	6.279	-6.547	-6.443	1.00	0.00
ATOM	826	CD2	LEU	52	3.140	-7.507	-5.421	1.00	0.00
ATOM	827	HD21	LEU	52	2.311	-6.960	-4.972	1.00	0.00
ATOM	828	HD22	LEU	52	2.848	-7.861	-6.410	1.00	0.00
ATOM	829	HD23	LEU	52	3.395	-8.360	-4.792	1.00	0.00

ATOM	830	C	LEU	52	5.533	-8.513	-3.735	1.00	0.00
ATOM	831	O	LEU	52	4.539	-9.173	-3.489	1.00	0.00
ATOM	832	N	TYR	53	6.592	-8.994	-4.397	1.00	0.00
ATOM	833	H	TYR	53	7.409	-8.407	-4.478	1.00	0.00
ATOM	834	CA	TYR	53	6.642	-10.307	-4.962	1.00	0.00
ATOM	835	HA	TYR	53	5.637	-10.700	-5.115	1.00	0.00
ATOM	836	CB	TYR	53	7.347	-10.228	-6.316	1.00	0.00
ATOM	837	HB2	TYR	53	6.872	-9.422	-6.875	1.00	0.00
ATOM	838	HB3	TYR	53	8.388	-9.971	-6.122	1.00	0.00
ATOM	839	CG	TYR	53	7.285	-11.507	-7.126	1.00	0.00
ATOM	840	CD1	TYR	53	6.046	-12.050	-7.497	1.00	0.00
ATOM	841	HD1	TYR	53	5.133	-11.539	-7.192	1.00	0.00
ATOM	842	CE1	TYR	53	5.970	-13.232	-8.248	1.00	0.00
ATOM	843	HE1	TYR	53	5.006	-13.642	-8.550	1.00	0.00
ATOM	844	CZ	TYR	53	7.160	-13.883	-8.623	1.00	0.00
ATOM	845	OH	TYR	53	7.103	-15.039	-9.333	1.00	0.00
ATOM	846	HH	TYR	53	6.204	-15.319	-9.523	1.00	0.00
ATOM	847	CE2	TYR	53	8.412	-13.350	-8.255	1.00	0.00
ATOM	848	HE2	TYR	53	9.333	-13.856	-8.546	1.00	0.00
ATOM	849	CD2	TYR	53	8.469	-12.158	-7.507	1.00	0.00
ATOM	850	HD2	TYR	53	9.434	-11.739	-7.223	1.00	0.00
ATOM	851	C	TYR	53	7.440	-11.187	-4.053	1.00	0.00

ATOM	852	O	TYR	53	7.227	-12.379	-4.015	1.00	0.00
ATOM	853	N	GLN	54	8.396	-10.624	-3.326	1.00	0.00
ATOM	854	H	GLN	54	8.546	-9.634	-3.460	1.00	0.00
ATOM	855	CA	GLN	54	9.250	-11.324	-2.408	1.00	0.00
ATOM	856	HA	GLN	54	9.876	-12.026	-2.959	1.00	0.00
ATOM	857	CB	GLN	54	10.158	-10.354	-1.642	1.00	0.00
ATOM	858	HB2	GLN	54	10.715	-10.922	-0.897	1.00	0.00
ATOM	859	HB3	GLN	54	10.854	-9.904	-2.350	1.00	0.00
ATOM	860	CG	GLN	54	9.353	-9.254	-0.948	1.00	0.00
ATOM	861	HG2	GLN	54	8.873	-8.605	-1.681	1.00	0.00
ATOM	862	HG3	GLN	54	8.590	-9.742	-0.341	1.00	0.00
ATOM	863	CD	GLN	54	10.220	-8.405	-0.044	1.00	0.00
ATOM	864	OE1	GLN	54	11.386	-8.136	-0.318	1.00	0.00
ATOM	865	NE2	GLN	54	9.635	-7.935	1.035	1.00	0.00
ATOM	866	HE21	GLN	54	10.159	-7.361	1.680	1.00	0.00
ATOM	867	HE22	GLN	54	8.664	-8.150	1.214	1.00	0.00
ATOM	868	C	GLN	54	8.400	-12.129	-1.437	1.00	0.00
ATOM	869	O	GLN	54	8.847	-13.155	-0.940	1.00	0.00
ATOM	870	N	GLU	55	7.165	-11.671	-1.202	1.00	0.00
ATOM	871	H	GLU	55	6.894	-10.775	-1.582	1.00	0.00
ATOM	872	CA	GLU	55	6.237	-12.357	-0.349	1.00	0.00
ATOM	873	HA	GLU	55	6.775	-12.873	0.446	1.00	0.00



ATOM	874	CB	GLU	55	5.273	-11.369	0.280	1.00	0.00
ATOM	875	HB2	GLU	55	4.575	-11.034	-0.488	1.00	0.00
ATOM	876	HB3	GLU	55	4.724	-11.881	1.070	1.00	0.00
ATOM	877	CG	GLU	55	6.000	-10.167	0.864	1.00	0.00
ATOM	878	HG2	GLU	55	6.931	-10.562	1.269	1.00	0.00
ATOM	879	HG3	GLU	55	6.224	-9.418	0.105	1.00	0.00
ATOM	880	CD	GLU	55	5.196	-9.534	1.975	1.00	0.00
ATOM	881	OE1	GLU	55	4.256	-10.157	2.502	1.00	0.00
ATOM	882	OE2	GLU	55	5.510	-8.369	2.221	1.00	0.00
ATOM	883	C	GLU	55	5.510	-13.452	-1.098	1.00	0.00
ATOM	884	O	GLU	55	4.474	-13.912	-0.660	1.00	0.00
ATOM	885	N	ASP	56	6.043	-13.900	-2.224	1.00	0.00
ATOM	886	H	ASP	56	6.932	-13.503	-2.492	1.00	0.00
ATOM	887	CA	ASP	56	5.456	-14.890	-3.079	1.00	0.00
ATOM	888	HA	ASP	56	6.207	-15.309	-3.749	1.00	0.00
ATOM	889	CB	ASP	56	4.881	-16.022	-2.220	1.00	0.00
ATOM	890	HB2	ASP	56	5.571	-16.054	-1.377	1.00	0.00
ATOM	891	HB3	ASP	56	3.883	-15.767	-1.864	1.00	0.00
ATOM	892	CG	ASP	56	4.844	-17.374	-2.891	1.00	0.00
ATOM	893	OD1	ASP	56	5.278	-17.461	-4.060	1.00	0.00
ATOM	894	OD2	ASP	56	4.289	-18.305	-2.273	1.00	0.00
ATOM	895	C	ASP	56	4.342	-14.271	-3.911	1.00	0.00

ATOM	896	O	ASP	56	4.116	-13.054	-3.938	1.00	0.00
ATOM	897	N	GLN	57	3.578	-15.130	-4.597	1.00	0.00
ATOM	898	H	GLN	57	3.808	-16.114	-4.589	1.00	0.00
ATOM	899	CA	GLN	57	2.462	-14.696	-5.399	1.00	0.00
ATOM	900	HA	GLN	57	2.632	-13.681	-5.758	1.00	0.00
ATOM	901	CB	GLN	57	2.295	-15.620	-6.606	1.00	0.00
ATOM	902	HB2	GLN	57	3.215	-16.186	-6.751	1.00	0.00
ATOM	903	HB3	GLN	57	1.472	-16.309	-6.416	1.00	0.00
ATOM	904	CG	GLN	57	1.996	-14.805	-7.863	1.00	0.00
ATOM	905	HG2	GLN	57	2.605	-13.901	-7.846	1.00	0.00
ATOM	906	HG3	GLN	57	2.227	-15.382	-8.759	1.00	0.00
ATOM	907	CD	GLN	57	0.542	-14.406	-7.909	1.00	0.00
ATOM	908	OE1	GLN	57	-0.349	-15.204	-8.053	1.00	0.00
ATOM	909	NE2	GLN	57	0.274	-13.133	-7.809	1.00	0.00
ATOM	910	HE21	GLN	57	-0.686	-12.819	-7.835	1.00	0.00
ATOM	911	HE22	GLN	57	1.027	-12.468	-7.706	1.00	0.00
ATOM	912	C	GLN	57	1.186	-14.655	-4.585	1.00	0.00
ATOM	913	O	GLN	57	0.255	-13.913	-4.878	1.00	0.00
ATOM	914	N	VAL	58	1.146	-15.431	-3.510	1.00	0.00
ATOM	915	H	VAL	58	1.924	-16.051	-3.336	1.00	0.00
ATOM	916	CA	VAL	58	0.002	-15.498	-2.621	1.00	0.00
ATOM	917	HA	VAL	58	-0.936	-15.488	-3.176	1.00	0.00

ATOM	918	CB	VAL	58	0.054	-16.773	-1.770	1.00	0.00
ATOM	919	HB	VAL	58	0.393	-16.519	-0.766	1.00	0.00
ATOM	920	CG1	VAL	58	-1.335	-17.414	-1.693	1.00	0.00
ATOM	921	HG11	VAL	58	-1.674	-17.669	-2.697	1.00	0.00
ATOM	922	HG12	VAL	58	-1.285	-18.319	-1.086	1.00	0.00
ATOM	923	HG13	VAL	58	-2.035	-16.712	-1.241	1.00	0.00
ATOM	924	CG2	VAL	58	1.061	-17.782	-2.332	1.00	0.00
ATOM	925	HG21	VAL	58	2.055	-17.336	-2.345	1.00	0.00
ATOM	926	HG22	VAL	58	1.072	-18.674	-1.705	1.00	0.00
ATOM	927	HG23	VAL	58	0.773	-18.057	-3.347	1.00	0.00
ATOM	928	C	VAL	58	-0.043	-14.238	-1.778	1.00	0.00
ATOM	929	O	VAL	58	-0.986	-14.063	-1.009	1.00	0.00
ATOM	930	N	CYX	59	0.942	-13.352	-1.954	1.00	0.00
ATOM	931	H	CYX	59	1.681	-13.574	-2.605	1.00	0.00
ATOM	932	CA	CYX	59	1.017	-12.115	-1.238	1.00	0.00
ATOM	933	HA	CYX	59	0.187	-12.048	-0.535	1.00	0.00
ATOM	934	CB	CYX	59	2.307	-12.019	-0.469	1.00	0.00
ATOM	935	HB2	CYX	59	3.127	-12.383	-1.088	1.00	0.00
ATOM	936	HB3	CYX	59	2.492	-10.980	-0.196	1.00	0.00
ATOM	937	SG	CYX	59	2.383	-12.993	1.078	1.00	0.00
ATOM	938	C	CYX	59	0.906	-10.965	-2.208	1.00	0.00
ATOM	939	O	CYX	59	0.321	-9.928	-1.880	1.00	0.00

ATOM	940	N	VAL	60	1.349	-11.176	-3.456	1.00	0.00
ATOM	941	H	VAL	60	1.817	-12.045	-3.670	1.00	0.00
ATOM	942	CA	VAL	60	1.247	-10.179	-4.497	1.00	0.00
ATOM	943	HA	VAL	60	1.863	-9.298	-4.321	1.00	0.00
ATOM	944	CB	VAL	60	1.638	-10.786	-5.839	1.00	0.00
ATOM	945	HB	VAL	60	1.285	-11.817	-5.874	1.00	0.00
ATOM	946	CG1	VAL	60	1.025	-10.000	-6.993	1.00	0.00
ATOM	947	HG11	VAL	60	1.378	-8.970	-6.960	1.00	0.00
ATOM	948	HG12	VAL	60	1.319	-10.454	-7.939	1.00	0.00
ATOM	949	HG13	VAL	60	-0.062	-10.015	-6.906	1.00	0.00
ATOM	950	CG2	VAL	60	3.142	-10.883	-5.975	1.00	0.00
ATOM	951	HG21	VAL	60	3.539	-11.513	-5.179	1.00	0.00
ATOM	952	HG22	VAL	60	3.392	-11.320	-6.942	1.00	0.00
ATOM	953	HG23	VAL	60	3.579	-9.887	-5.903	1.00	0.00
ATOM	954	C	VAL	60	-0.153	-9.610	-4.527	1.00	0.00
ATOM	955	O	VAL	60	-0.351	-8.485	-4.952	1.00	0.00
ATOM	956	N	CYX	61	-1.145	-10.385	-4.096	1.00	0.00
ATOM	957	H	CYX	61	-0.926	-11.349	-3.887	1.00	0.00
ATOM	958	CA	CYX	61	-2.492	-9.963	-3.985	1.00	0.00
ATOM	959	HA	CYX	61	-2.595	-9.237	-3.179	1.00	0.00
ATOM	960	CB	CYX	61	-2.929	-9.309	-5.288	1.00	0.00
ATOM	961	HB2	CYX	61	-2.164	-9.466	-6.048	1.00	0.00

ATOM	962	HB3	CYX	61	-3.867	-9.753	-5.621	1.00	0.00
ATOM	963	SG	CYX	61	-3.201	-7.519	-5.232	1.00	0.00
ATOM	964	C	CYX	61	-3.355	-11.161	-3.609	1.00	0.00
ATOM	965	O	CYX	61	-2.903	-12.284	-3.709	1.00	0.00
ATOM	966	N	PRO	62	-4.604	-10.905	-3.186	1.00	0.00
ATOM	967	CD	PRO	62	-5.613	-11.858	-2.769	1.00	0.00
ATOM	968	HD2	PRO	62	-5.259	-12.356	-1.866	1.00	0.00
ATOM	969	HD3	PRO	62	-5.737	-12.594	-3.564	1.00	0.00
ATOM	970	CG	PRO	62	-6.887	-11.036	-2.528	1.00	0.00
ATOM	971	HG2	PRO	62	-7.171	-11.130	-1.480	1.00	0.00
ATOM	972	HG3	PRO	62	-7.684	-11.433	-3.157	1.00	0.00
ATOM	973	CB	PRO	62	-6.574	-9.584	-2.894	1.00	0.00
ATOM	974	HB2	PRO	62	-6.920	-8.874	-2.144	1.00	0.00
ATOM	975	HB3	PRO	62	-7.010	-9.332	-3.861	1.00	0.00
ATOM	976	CA	PRO	62	-5.063	-9.544	-2.982	1.00	0.00
ATOM	977	HA	PRO	62	-4.828	-8.971	-3.879	1.00	0.00
ATOM	978	C	PRO	62	-4.423	-8.900	-1.798	1.00	0.00
ATOM	979	O	PRO	62	-4.710	-7.781	-1.504	1.00	0.00
ATOM	980	N	THR	63	-3.591	-9.612	-1.083	1.00	0.00
ATOM	981	H	THR	63	-3.498	-10.580	-1.357	1.00	0.00
ATOM	982	CA	THR	63	-2.856	-9.155	0.070	1.00	0.00
ATOM	983	HA	THR	63	-3.559	-9.248	0.898	1.00	0.00

ATOM	984	CB	THR	63	-1.676	-10.087	0.326	1.00	0.00
ATOM	985	HB	THR	63	-0.767	-9.579	0.004	1.00	0.00
ATOM	986	CG2	THR	63	-1.552	-10.465	1.778	1.00	0.00
ATOM	987	HG21	THR	63	-2.460	-10.974	2.100	1.00	0.00
ATOM	988	HG22	THR	63	-0.698	-11.129	1.909	1.00	0.00
ATOM	989	HG23	THR	63	-1.408	-9.566	2.377	1.00	0.00
ATOM	990	OG1	THR	63	-1.991	-11.310	-0.327	1.00	0.00
ATOM	991	HG1	THR	63	-1.275	-11.937	-0.196	1.00	0.00
ATOM	992	C	THR	63	-2.386	-7.747	-0.103	1.00	0.00
ATOM	993	O	THR	63	-2.701	-6.970	0.774	1.00	0.00
ATOM	994	N	LEU	64	-1.785	-7.398	-1.240	1.00	0.00
ATOM	995	H	LEU	64	-1.599	-8.123	-1.919	1.00	0.00
ATOM	996	CA	LEU	64	-1.345	-6.049	-1.536	1.00	0.00
ATOM	997	HA	LEU	64	-0.477	-5.795	-0.928	1.00	0.00
ATOM	998	CB	LEU	64	-0.956	-5.944	-3.009	1.00	0.00
ATOM	999	HB2	LEU	64	-0.775	-6.973	-3.319	1.00	0.00
ATOM	1000	HB3	LEU	64	-1.791	-5.536	-3.578	1.00	0.00
ATOM	1001	CG	LEU	64	0.300	-5.103	-3.270	1.00	0.00
ATOM	1002	HG	LEU	64	0.942	-5.143	-2.390	1.00	0.00
ATOM	1003	CD1	LEU	64	1.054	-5.633	-4.468	1.00	0.00
ATOM	1004	HD11	LEU	64	0.413	-5.593	-5.349	1.00	0.00
ATOM	1005	HD12	LEU	64	1.942	-5.024	-4.638	1.00	0.00

ATOM	1006	HD13	LEU	64	1.352	-6.665	-4.283	1.00	0.00
ATOM	1007	CD2	LEU	64	-0.054	-3.632	-3.468	1.00	0.00
ATOM	1008	HD21	LEU	64	-0.547	-3.253	-2.573	1.00	0.00
ATOM	1009	HD22	LEU	64	0.856	-3.061	-3.651	1.00	0.00
ATOM	1010	HD23	LEU	64	-0.724	-3.531	-4.322	1.00	0.00
ATOM	1011	C	LEU	64	-2.420	-5.040	-1.208	1.00	0.00
ATOM	1012	O	LEU	64	-2.106	-4.022	-0.603	1.00	0.00
ATOM	1013	N	LYS	65	-3.691	-5.370	-1.498	1.00	0.00
ATOM	1014	H	LYS	65	-3.834	-6.191	-2.070	1.00	0.00
ATOM	1015	CA	LYS	65	-4.841	-4.577	-1.142	1.00	0.00
ATOM	1016	HA	LYS	65	-4.897	-3.708	-1.798	1.00	0.00
ATOM	1017	CB	LYS	65	-6.142	-5.380	-1.281	1.00	0.00
ATOM	1018	HB2	LYS	65	-6.256	-5.686	-2.321	1.00	0.00
ATOM	1019	HB3	LYS	65	-6.077	-6.265	-0.648	1.00	0.00
ATOM	1020	CG	LYS	65	-7.345	-4.544	-0.863	1.00	0.00
ATOM	1021	HG2	LYS	65	-7.082	-3.490	-0.950	1.00	0.00
ATOM	1022	HG3	LYS	65	-8.174	-4.768	-1.535	1.00	0.00
ATOM	1023	CD	LYS	65	-7.762	-4.849	0.582	1.00	0.00
ATOM	1024	HD2	LYS	65	-6.947	-5.369	1.085	1.00	0.00
ATOM	1025	HD3	LYS	65	-7.968	-3.912	1.098	1.00	0.00
ATOM	1026	CE	LYS	65	-9.014	-5.727	0.601	1.00	0.00
ATOM	1027	HE2	LYS	65	-9.576	-5.566	-0.319	1.00	0.00

ATOM	1028	HE3 LYS	65	-8.715	-6.773	0.664	1.00	0.00
ATOM	1029	NZ LYS	65	-9.861	-5.387	1.761	1.00	0.00
ATOM	1030	HZ1 LYS	65	-10.139	-4.418	1.702	1.00	0.00
ATOM	1031	HZ2 LYS	65	-10.683	-5.974	1.761	1.00	0.00
ATOM	1032	HZ3 LYS	65	-9.340	-5.537	2.613	1.00	0.00
ATOM	1033	C LYS	65	-4.660	-4.006	0.246	1.00	0.00
ATOM	1034	O LYS	65	-5.108	-2.928	0.485	1.00	0.00
ATOM	1035	N GLN	66	-4.028	-4.702	1.170	1.00	0.00
ATOM	1036	H GLN	66	-3.840	-5.664	0.926	1.00	0.00
ATOM	1037	CA GLN	66	-3.674	-4.257	2.467	1.00	0.00
ATOM	1038	HA GLN	66	-4.561	-3.881	2.977	1.00	0.00
ATOM	1039	CB GLN	66	-3.078	-5.397	3.299	1.00	0.00
ATOM	1040	HB2 GLN	66	-3.785	-6.226	3.331	1.00	0.00
ATOM	1041	HB3 GLN	66	-2.148	-5.731	2.838	1.00	0.00
ATOM	1042	CG GLN	66	-2.794	-4.909	4.732	1.00	0.00
ATOM	1043	HG2 GLN	66	-2.516	-5.718	5.408	1.00	0.00
ATOM	1044	HG3 GLN	66	-1.966	-4.205	4.649	1.00	0.00
ATOM	1045	CD GLN	66	-3.999	-4.178	5.316	1.00	0.00
ATOM	1046	OE1 GLN	66	-3.886	-3.145	5.952	1.00	0.00
ATOM	1047	NE2 GLN	66	-5.187	-4.692	5.010	1.00	0.00
ATOM	1048	HE21 GLN	66	-6.028	-4.258	5.363	1.00	0.00
ATOM	1049	HE22 GLN	66	-5.243	-5.514	4.426	1.00	0.00



ATOM	1050	C	GLN	66	-2.728	-3.083	2.449	1.00	0.00
ATOM	1051	O	GLN	66	-3.119	-1.980	2.810	1.00	0.00
ATOM	1052	N	ALA	67	-1.473	-3.306	2.065	1.00	0.00
ATOM	1053	H	ALA	67	-1.174	-4.253	1.878	1.00	0.00
ATOM	1054	CA	ALA	67	-0.497	-2.247	1.963	1.00	0.00
ATOM	1055	HA	ALA	67	-0.278	-1.836	2.948	1.00	0.00
ATOM	1056	CB	ALA	67	0.791	-2.807	1.372	1.00	0.00
ATOM	1057	HB1	ALA	67	0.590	-3.214	0.381	1.00	0.00
ATOM	1058	HB2	ALA	67	1.532	-2.011	1.294	1.00	0.00
ATOM	1059	HB3	ALA	67	1.174	-3.597	2.018	1.00	0.00
ATOM	1060	C	ALA	67	-1.050	-1.103	1.120	1.00	0.00
ATOM	1061	O	ALA	67	-0.672	0.039	1.316	1.00	0.00
ATOM	1062	N	ALA	68	-2.027	-1.378	0.263	1.00	0.00
ATOM	1063	H	ALA	68	-2.302	-2.343	0.148	1.00	0.00
ATOM	1064	CA	ALA	68	-2.671	-0.387	-0.546	1.00	0.00
ATOM	1065	HA	ALA	68	-1.981	0.425	-0.777	1.00	0.00
ATOM	1066	CB	ALA	68	-3.109	-1.040	-1.851	1.00	0.00
ATOM	1067	HB1	ALA	68	-3.807	-1.849	-1.637	1.00	0.00
ATOM	1068	HB2	ALA	68	-3.597	-0.298	-2.484	1.00	0.00
ATOM	1069	HB3	ALA	68	-2.237	-1.441	-2.368	1.00	0.00
ATOM	1070	C	ALA	68	-3.850	0.231	0.192	1.00	0.00
ATOM	1071	O	ALA	68	-4.222	1.382	-0.009	1.00	0.00

ATOM	1072	N	LYS	69	-4.462	-0.510	1.104	1.00	0.00
ATOM	1073	H	LYS	69	-4.163	-1.471	1.187	1.00	0.00
ATOM	1074	CA	LYS	69	-5.566	-0.069	1.907	1.00	0.00
ATOM	1075	HA	LYS	69	-6.268	0.489	1.287	1.00	0.00
ATOM	1076	CB	LYS	69	-6.304	-1.262	2.531	1.00	0.00
ATOM	1077	HB2	LYS	69	-6.662	-1.911	1.732	1.00	0.00
ATOM	1078	HB3	LYS	69	-5.608	-1.815	3.163	1.00	0.00
ATOM	1079	CG	LYS	69	-7.491	-0.788	3.373	1.00	0.00
ATOM	1080	HG2	LYS	69	-8.118	-1.649	3.607	1.00	0.00
ATOM	1081	HG3	LYS	69	-7.111	-0.354	4.298	1.00	0.00
ATOM	1082	CD	LYS	69	-8.322	0.261	2.618	1.00	0.00
ATOM	1083	HD2	LYS	69	-7.779	1.206	2.624	1.00	0.00
ATOM	1084	HD3	LYS	69	-8.454	-0.075	1.589	1.00	0.00
ATOM	1085	CE	LYS	69	-9.684	0.455	3.267	1.00	0.00
ATOM	1086	HE2	LYS	69	-10.412	-0.173	2.753	1.00	0.00
ATOM	1087	HE3	LYS	69	-9.622	0.156	4.313	1.00	0.00
ATOM	1088	NZ	LYS	69	-10.106	1.866	3.183	1.00	0.00
ATOM	1089	HZ1	LYS	69	-10.164	2.142	2.213	1.00	0.00
ATOM	1090	HZ2	LYS	69	-11.011	1.973	3.619	1.00	0.00
ATOM	1091	HZ3	LYS	69	-9.432	2.448	3.659	1.00	0.00
ATOM	1092	C	LYS	69	-5.055	0.902	2.942	1.00	0.00
ATOM	1093	O	LYS	69	-5.741	1.852	3.260	1.00	0.00

ATOM	1094	N	SER	70	-3.834	0.716	3.427	1.00	0.00
ATOM	1095	H	SER	70	-3.315	-0.099	3.133	1.00	0.00
ATOM	1096	CA	SER	70	-3.228	1.602	4.397	1.00	0.00
ATOM	1097	HA	SER	70	-3.996	2.218	4.865	1.00	0.00
ATOM	1098	CB	SER	70	-2.519	0.801	5.481	1.00	0.00
ATOM	1099	HB2	SER	70	-3.235	0.109	5.925	1.00	0.00
ATOM	1100	HB3	SER	70	-1.707	0.237	5.021	1.00	0.00
ATOM	1101	OG	SER	70	-1.993	1.650	6.490	1.00	0.00
ATOM	1102	HG	SER	70	-1.553	1.119	7.158	1.00	0.00
ATOM	1103	C	SER	70	-2.257	2.539	3.705	1.00	0.00
ATOM	1104	O	SER	70	-1.453	3.227	4.336	1.00	0.00
ATOM	1105	N	VAL	71	-2.317	2.592	2.369	1.00	0.00
ATOM	1106	H	VAL	71	-2.933	1.962	1.875	1.00	0.00
ATOM	1107	CA	VAL	71	-1.461	3.464	1.593	1.00	0.00
ATOM	1108	HA	VAL	71	-0.404	3.366	1.840	1.00	0.00
ATOM	1109	CB	VAL	71	-1.642	3.180	0.102	1.00	0.00
ATOM	1110	HB	VAL	71	-2.110	2.201	-0.011	1.00	0.00
ATOM	1111	CG1	VAL	71	-2.505	4.228	-0.555	1.00	0.00
ATOM	1112	HG11	VAL	71	-2.038	5.206	-0.443	1.00	0.00
ATOM	1113	HG12	VAL	71	-2.614	3.997	-1.615	1.00	0.00
ATOM	1114	HG13	VAL	71	-3.487	4.238	-0.083	1.00	0.00
ATOM	1115	CG2	VAL	71	-0.311	3.062	-0.612	1.00	0.00

ATOM	1116	HG21	VAL	71	0.265	2.246	-0.175	1.00	0.00
ATOM	1117	HG22	VAL	71	-0.482	2.860	-1.670	1.00	0.00
ATOM	1118	HG23	VAL	71	0.243	3.994	-0.506	1.00	0.00
ATOM	1119	C	VAL	71	-1.770	4.907	1.965	1.00	0.00
ATOM	1120	O	VAL	71	-1.060	5.831	1.627	1.00	0.00
ATOM	1121	N	ARG	72	-2.896	5.161	2.625	1.00	0.00
ATOM	1122	H	ARG	72	-3.529	4.396	2.812	1.00	0.00
ATOM	1123	CA	ARG	72	-3.275	6.479	3.055	1.00	0.00
ATOM	1124	HA	ARG	72	-2.397	7.048	3.360	1.00	0.00
ATOM	1125	CB	ARG	72	-3.951	7.208	1.891	1.00	0.00
ATOM	1126	HB2	ARG	72	-3.932	6.565	1.010	1.00	0.00
ATOM	1127	HB3	ARG	72	-4.985	7.424	2.160	1.00	0.00
ATOM	1128	CG	ARG	72	-3.221	8.514	1.584	1.00	0.00
ATOM	1129	HG2	ARG	72	-2.289	8.528	2.148	1.00	0.00
ATOM	1130	HG3	ARG	72	-3.000	8.542	0.517	1.00	0.00
ATOM	1131	CD	ARG	72	-4.060	9.728	1.960	1.00	0.00
ATOM	1132	HD2	ARG	72	-4.793	9.908	1.173	1.00	0.00
ATOM	1133	HD3	ARG	72	-4.577	9.522	2.897	1.00	0.00
ATOM	1134	NE	ARG	72	-3.245	10.935	2.128	1.00	0.00
ATOM	1135	HE	ARG	72	-3.292	11.622	1.390	1.00	0.00
ATOM	1136	CZ	ARG	72	-2.452	11.172	3.165	1.00	0.00
ATOM	1137	NH1	ARG	72	-2.393	10.315	4.160	1.00	0.00

ATOM	1138	HH11	ARG	72	-2.953	9.475	4.133	1.00	0.00
ATOM	1139	HH12	ARG	72	-1.788	10.500	4.947	1.00	0.00
ATOM	1140	NH2	ARG	72	-1.737	12.267	3.206	1.00	0.00
ATOM	1141	HH21	ARG	72	-1.791	12.930	2.446	1.00	0.00
ATOM	1142	HH22	ARG	72	-1.135	12.443	3.997	1.00	0.00
ATOM	1143	C	ARG	72	-4.200	6.386	4.240	1.00	0.00
ATOM	1144	O	ARG	72	-3.795	6.728	5.343	1.00	0.00
ATOM	1145	N	VAL	73	-5.465	6.019	3.974	1.00	0.00
ATOM	1146	H	VAL	73	-5.739	5.865	3.014	1.00	0.00
ATOM	1147	CA	VAL	73	-6.477	5.918	4.999	1.00	0.00
ATOM	1148	HA	VAL	73	-6.761	6.887	5.409	1.00	0.00
ATOM	1149	CB	VAL	73	-7.725	5.246	4.426	1.00	0.00
ATOM	1150	HB	VAL	73	-7.895	5.641	3.425	1.00	0.00
ATOM	1151	CG1	VAL	73	-7.577	3.733	4.355	1.00	0.00
ATOM	1152	HG11	VAL	73	-7.407	3.336	5.356	1.00	0.00
ATOM	1153	HG12	VAL	73	-8.487	3.297	3.942	1.00	0.00
ATOM	1154	HG13	VAL	73	-6.731	3.479	3.716	1.00	0.00
ATOM	1155	CG2	VAL	73	-8.964	5.611	5.247	1.00	0.00
ATOM	1156	HG21	VAL	73	-9.107	6.691	5.229	1.00	0.00
ATOM	1157	HG22	VAL	73	-9.840	5.121	4.821	1.00	0.00
ATOM	1158	HG23	VAL	73	-8.829	5.280	6.277	1.00	0.00
ATOM	1159	C	VAL	73	-5.896	5.171	6.198	1.00	0.00

ATOM	1160	O	VAL	73	-4.930	4.408	6.075	1.00	0.00
ATOM	1161	N	GLN	74	-6.524	5.360	7.344	1.00	0.00
ATOM	1162	H	GLN	74	-7.299	6.005	7.399	1.00	0.00
ATOM	1163	CA	GLN	74	-6.080	4.715	8.562	1.00	0.00
ATOM	1164	HA	GLN	74	-6.096	3.632	8.433	1.00	0.00
ATOM	1165	CB	GLN	74	-4.650	5.146	8.908	1.00	0.00
ATOM	1166	HB2	GLN	74	-4.166	5.530	8.010	1.00	0.00
ATOM	1167	HB3	GLN	74	-4.687	5.930	9.664	1.00	0.00
ATOM	1168	CG	GLN	74	-3.853	3.953	9.447	1.00	0.00
ATOM	1169	HG2	GLN	74	-4.547	3.266	9.932	1.00	0.00
ATOM	1170	HG3	GLN	74	-3.346	3.439	8.630	1.00	0.00
ATOM	1171	CD	GLN	74	-2.811	4.392	10.466	1.00	0.00
ATOM	1172	OE1	GLN	74	-2.468	5.559	10.595	1.00	0.00
ATOM	1173	NE2	GLN	74	-2.280	3.425	11.192	1.00	0.00
ATOM	1174	HE21	GLN	74	-1.582	3.645	11.888	1.00	0.00
ATOM	1175	HE22	GLN	74	-2.575	2.469	11.048	1.00	0.00
ATOM	1176	C	GLN	74	-7.038	5.017	9.710	1.00	0.00
ATOM	1177	O	GLN	74	-6.642	5.193	10.856	1.00	0.00
ATOM	1178	N	GLY	75	-8.326	5.145	9.378	1.00	0.00
ATOM	1179	H	GLY	75	-8.607	5.040	8.413	1.00	0.00
ATOM	1180	CA	GLY	75	-9.347	5.432	10.363	1.00	0.00
ATOM	1181	HA2	GLY	75	-9.462	4.572	11.023	1.00	0.00

ATOM	1182	HA3	GLY	75	-9.048	6.301	10.948	1.00	0.00
ATOM	1183	C	GLY	75	-10.670	5.720	9.697	1.00	0.00
ATOM	1184	O	GLY	75	-11.658	5.044	9.967	1.00	0.00
ATOM	1185	N	GLN	76	-10.670	6.680	8.759	1.00	0.00
ATOM	1186	H	GLN	76	-9.818	7.186	8.566	1.00	0.00
ATOM	1187	CA	GLN	76	-11.872	7.063	8.048	1.00	0.00
ATOM	1188	HA	GLN	76	-12.184	6.244	7.400	1.00	0.00
ATOM	1189	CB	GLN	76	-13.017	7.386	9.016	1.00	0.00
ATOM	1190	HB2	GLN	76	-12.756	7.021	10.009	1.00	0.00
ATOM	1191	HB3	GLN	76	-13.159	8.466	9.051	1.00	0.00
ATOM	1192	CG	GLN	76	-14.313	6.717	8.551	1.00	0.00
ATOM	1193	HG2	GLN	76	-14.367	6.744	7.463	1.00	0.00
ATOM	1194	HG3	GLN	76	-14.340	5.681	8.889	1.00	0.00
ATOM	1195	CD	GLN	76	-15.521	7.443	9.115	1.00	0.00
ATOM	1196	OE1	GLN	76	-16.096	8.310	8.478	1.00	0.00
ATOM	1197	NE2	GLN	76	-15.893	7.078	10.325	1.00	0.00
ATOM	1198	HE21	GLN	76	-16.690	7.521	10.760	1.00	0.00
ATOM	1199	HE22	GLN	76	-15.380	6.357	10.812	1.00	0.00
ATOM	1200	C	GLN	76	-11.597	8.251	7.146	1.00	0.00
ATOM	1201	O	GLN	76	-11.418	9.378	7.595	1.00	0.00
ATOM	1202	N	HID	77	-11.480	7.983	5.847	1.00	0.00
ATOM	1203	H	HID	77	-11.464	7.020	5.543	1.00	0.00

ATOM	1204	CA	HID	77	-11.246	9.022	4.857	1.00	0.00
ATOM	1205	HA	HID	77	-11.415	10.006	5.294	1.00	0.00
ATOM	1206	CB	HID	77	-9.797	8.945	4.371	1.00	0.00
ATOM	1207	HB2	HID	77	-9.112	9.110	5.202	1.00	0.00
ATOM	1208	HB3	HID	77	-9.594	7.972	3.922	1.00	0.00
ATOM	1209	CG	HID	77	-9.466	9.978	3.328	1.00	0.00
ATOM	1210	ND1	HID	77	-8.846	11.180	3.593	1.00	0.00
ATOM	1211	HD1	HID	77	-8.552	11.502	4.504	1.00	0.00
ATOM	1212	CE1	HID	77	-8.701	11.848	2.432	1.00	0.00
ATOM	1213	HE1	HID	77	-8.220	12.826	2.417	1.00	0.00
ATOM	1214	NE2	HID	77	-9.225	11.108	1.440	1.00	0.00
ATOM	1215	CD2	HID	77	-9.701	9.925	1.976	1.00	0.00
ATOM	1216	HD2	HID	77	-10.156	9.176	1.327	1.00	0.00
ATOM	1217	C	HID	77	-12.278	8.924	3.740	1.00	0.00
ATOM	1218	O	HID	77	-12.167	9.592	2.723	1.00	0.00
ATOM	1219	N	GLY	78	-13.287	8.072	3.925	1.00	0.00
ATOM	1220	H	GLY	78	-13.343	7.549	4.787	1.00	0.00
ATOM	1221	CA	GLY	78	-14.311	7.866	2.933	1.00	0.00
ATOM	1222	HA2	GLY	78	-14.976	7.069	3.268	1.00	0.00
ATOM	1223	HA3	GLY	78	-14.881	8.787	2.814	1.00	0.00
ATOM	1224	C	GLY	78	-13.708	7.475	1.582	1.00	0.00
ATOM	1225	O	GLY	78	-12.485	7.299	1.427	1.00	0.00



ATOM	1226	N	PRO	79	-14.585	7.273	0.598	1.00	0.00
ATOM	1227	CD	PRO	79	-16.032	7.401	0.699	1.00	0.00
ATOM	1228	HD2	PRO	79	-16.268	8.452	0.861	1.00	0.00
ATOM	1229	HD3	PRO	79	-16.364	6.818	1.558	1.00	0.00
ATOM	1230	CG	PRO	79	-16.596	6.868	-0.622	1.00	0.00
ATOM	1231	HG2	PRO	79	-17.110	7.677	-1.140	1.00	0.00
ATOM	1232	HG3	PRO	79	-17.304	6.067	-0.408	1.00	0.00
ATOM	1233	CB	PRO	79	-15.409	6.345	-1.440	1.00	0.00
ATOM	1234	HB2	PRO	79	-15.442	6.687	-2.475	1.00	0.00
ATOM	1235	HB3	PRO	79	-15.377	5.255	-1.419	1.00	0.00
ATOM	1236	CA	PRO	79	-14.176	6.916	-0.743	1.00	0.00
ATOM	1237	HA	PRO	79	-13.452	6.104	-0.672	1.00	0.00
ATOM	1238	C	PRO	79	-13.553	8.084	-1.483	1.00	0.00
ATOM	1239	O	PRO	79	-14.255	8.934	-2.010	1.00	0.00
ATOM	1240	N	PHE	80	-12.215	8.123	-1.508	1.00	0.00
ATOM	1241	H	PHE	80	-11.677	7.388	-1.070	1.00	0.00
ATOM	1242	CA	PHE	80	-11.502	9.201	-2.157	1.00	0.00
ATOM	1243	HA	PHE	80	-12.061	9.590	-3.008	1.00	0.00
ATOM	1244	CB	PHE	80	-11.334	10.321	-1.130	1.00	0.00
ATOM	1245	HB2	PHE	80	-12.178	10.328	-0.440	1.00	0.00
ATOM	1246	HB3	PHE	80	-10.410	10.172	-0.572	1.00	0.00
ATOM	1247	CG	PHE	80	-11.257	11.698	-1.731	1.00	0.00

ATOM	1248	CD1 PHE	80	-12.427	12.339	-2.160	1.00	0.00
ATOM	1249	HD1 PHE	80	-13.388	11.835	-2.059	1.00	0.00
ATOM	1250	CE1 PHE	80	-12.364	13.626	-2.719	1.00	0.00
ATOM	1251	HE1 PHE	80	-13.280	14.116	-3.050	1.00	0.00
ATOM	1252	CZ PHE	80	-11.131	14.280	-2.853	1.00	0.00
ATOM	1253	HZ PHE	80	-11.076	15.277	-3.289	1.00	0.00
ATOM	1254	CE2 PHE	80	-9.961	13.638	-2.420	1.00	0.00
ATOM	1255	HE2 PHE	80	-9.000	14.142	-2.519	1.00	0.00
ATOM	1256	CD2 PHE	80	-10.025	12.352	-1.861	1.00	0.00
ATOM	1257	HD2 PHE	80	-9.113	11.857	-1.526	1.00	0.00
ATOM	1258	C PHE	80	-10.139	8.735	-2.635	1.00	0.00
ATOM	1259	O PHE	80	-9.843	8.701	-3.818	1.00	0.00
ATOM	1260	N GLN	81	-9.291	8.338	-1.678	1.00	0.00
ATOM	1261	H GLN	81	-9.597	8.339	-0.716	1.00	0.00
ATOM	1262	CA GLN	81	-7.940	7.922	-1.966	1.00	0.00
ATOM	1263	HA GLN	81	-7.482	8.639	-2.647	1.00	0.00
ATOM	1264	CB GLN	81	-7.094	7.841	-0.702	1.00	0.00
ATOM	1265	HB2 GLN	81	-7.448	7.005	-0.098	1.00	0.00
ATOM	1266	HB3 GLN	81	-6.056	7.668	-0.987	1.00	0.00
ATOM	1267	CG GLN	81	-7.191	9.128	0.106	1.00	0.00
ATOM	1268	HG2 GLN	81	-6.337	9.755	-0.150	1.00	0.00
ATOM	1269	HG3 GLN	81	-8.114	9.659	-0.126	1.00	0.00

ATOM	1270	CD	GLN	81	-7.156	8.846	1.595	1.00	0.00
ATOM	1271	OE1	GLN	81	-7.480	7.783	2.092	1.00	0.00
ATOM	1272	NE2	GLN	81	-6.774	9.853	2.349	1.00	0.00
ATOM	1273	HE21	GLN	81	-6.726	9.739	3.351	1.00	0.00
ATOM	1274	HE22	GLN	81	-6.530	10.735	1.922	1.00	0.00
ATOM	1275	C	GLN	81	-8.009	6.582	-2.621	1.00	0.00
ATOM	1276	O	GLN	81	-7.557	6.497	-3.731	1.00	0.00
ATOM	1277	N	SER	82	-8.623	5.580	-1.980	1.00	0.00
ATOM	1278	H	SER	82	-9.022	5.767	-1.072	1.00	0.00
ATOM	1279	CA	SER	82	-8.741	4.237	-2.520	1.00	0.00
ATOM	1280	HA	SER	82	-7.810	3.693	-2.360	1.00	0.00
ATOM	1281	CB	SER	82	-9.873	3.479	-1.834	1.00	0.00
ATOM	1282	HB2	SER	82	-9.610	3.366	-0.783	1.00	0.00
ATOM	1283	HB3	SER	82	-10.777	4.081	-1.919	1.00	0.00
ATOM	1284	OG	SER	82	-10.100	2.211	-2.399	1.00	0.00
ATOM	1285	HG	SER	82	-10.819	1.777	-1.934	1.00	0.00
ATOM	1286	C	SER	82	-9.026	4.283	-4.004	1.00	0.00
ATOM	1287	O	SER	82	-8.323	3.659	-4.755	1.00	0.00
ATOM	1288	N	THR	83	-9.963	5.129	-4.420	1.00	0.00
ATOM	1289	H	THR	83	-10.530	5.604	-3.732	1.00	0.00
ATOM	1290	CA	THR	83	-10.285	5.312	-5.818	1.00	0.00
ATOM	1291	HA	THR	83	-10.864	4.445	-6.137	1.00	0.00

ATOM	1292	CB	THR	83	-11.152	6.561	-5.971	1.00	0.00
ATOM	1293	HB	THR	83	-10.977	7.188	-5.097	1.00	0.00
ATOM	1294	CG2	THR	83	-10.855	7.359	-7.237	1.00	0.00
ATOM	1295	HG21	THR	83	-11.030	6.732	-8.112	1.00	0.00
ATOM	1296	HG22	THR	83	-11.508	8.231	-7.279	1.00	0.00
ATOM	1297	HG23	THR	83	-9.815	7.684	-7.226	1.00	0.00
ATOM	1298	OG1	THR	83	-12.467	6.105	-6.095	1.00	0.00
ATOM	1299	HG1	THR	83	-13.058	6.855	-6.195	1.00	0.00
ATOM	1300	C	THR	83	-9.030	5.349	-6.680	1.00	0.00
ATOM	1301	O	THR	83	-8.705	4.388	-7.379	1.00	0.00
ATOM	1302	N	ARG	84	-8.273	6.449	-6.586	1.00	0.00
ATOM	1303	H	ARG	84	-8.553	7.191	-5.962	1.00	0.00
ATOM	1304	CA	ARG	84	-7.076	6.623	-7.355	1.00	0.00
ATOM	1305	HA	ARG	84	-7.273	6.377	-8.399	1.00	0.00
ATOM	1306	CB	ARG	84	-6.584	8.069	-7.278	1.00	0.00
ATOM	1307	HB2	ARG	84	-7.253	8.634	-6.629	1.00	0.00
ATOM	1308	HB3	ARG	84	-5.578	8.077	-6.858	1.00	0.00
ATOM	1309	CG	ARG	84	-6.561	8.710	-8.671	1.00	0.00
ATOM	1310	HG2	ARG	84	-7.590	8.894	-8.979	1.00	0.00
ATOM	1311	HG3	ARG	84	-6.027	9.658	-8.602	1.00	0.00
ATOM	1312	CD	ARG	84	-5.873	7.811	-9.703	1.00	0.00
ATOM	1313	HD2	ARG	84	-5.404	6.968	-9.195	1.00	0.00

ATOM	1314	HD3	ARG	84	-6.613	7.440	-10.413	1.00	0.00
ATOM	1315	NE	ARG	84	-4.838	8.551	-10.444	1.00	0.00
ATOM	1316	HE	ARG	84	-4.506	9.399	-10.007	1.00	0.00
ATOM	1317	CZ	ARG	84	-4.336	8.208	-11.613	1.00	0.00
ATOM	1318	NH1	ARG	84	-4.797	7.155	-12.247	1.00	0.00
ATOM	1319	HH11	ARG	84	-5.539	6.606	-11.836	1.00	0.00
ATOM	1320	HH12	ARG	84	-4.408	6.898	-13.143	1.00	0.00
ATOM	1321	NH2	ARG	84	-3.359	8.907	-12.143	1.00	0.00
ATOM	1322	HH21	ARG	84	-2.992	9.709	-11.652	1.00	0.00
ATOM	1323	HH22	ARG	84	-2.979	8.638	-13.040	1.00	0.00
ATOM	1324	C	ARG	84	-6.005	5.708	-6.836	1.00	0.00
ATOM	1325	O	ARG	84	-5.286	5.113	-7.619	1.00	0.00
ATOM	1326	N	ILE	85	-5.840	5.639	-5.523	1.00	0.00
ATOM	1327	H	ILE	85	-6.375	6.286	-4.962	1.00	0.00
ATOM	1328	CA	ILE	85	-4.892	4.785	-4.861	1.00	0.00
ATOM	1329	HA	ILE	85	-3.860	5.097	-5.021	1.00	0.00
ATOM	1330	CB	ILE	85	-5.174	4.702	-3.355	1.00	0.00
ATOM	1331	HB	ILE	85	-6.252	4.744	-3.198	1.00	0.00
ATOM	1332	CG2	ILE	85	-4.626	3.408	-2.767	1.00	0.00
ATOM	1333	HG21	ILE	85	-3.548	3.365	-2.923	1.00	0.00
ATOM	1334	HG22	ILE	85	-4.839	3.374	-1.699	1.00	0.00
ATOM	1335	HG23	ILE	85	-5.098	2.556	-3.258	1.00	0.00

ATOM	1336	CG1	ILE	85	-4.632	5.944	-2.626	1.00	0.00
ATOM	1337	HG12	ILE	85	-5.173	6.819	-2.985	1.00	0.00
ATOM	1338	HG13	ILE	85	-4.808	5.822	-1.557	1.00	0.00
ATOM	1339	CD1	ILE	85	-3.137	6.131	-2.878	1.00	0.00
ATOM	1340	HD11	ILE	85	-2.961	6.253	-3.947	1.00	0.00
ATOM	1341	HD12	ILE	85	-2.787	7.017	-2.349	1.00	0.00
ATOM	1342	HD13	ILE	85	-2.595	5.256	-2.519	1.00	0.00
ATOM	1343	C	ILE	85	-4.886	3.420	-5.520	1.00	0.00
ATOM	1344	O	ILE	85	-3.832	2.838	-5.671	1.00	0.00
ATOM	1345	N	TYR	86	-6.032	2.963	-5.999	1.00	0.00
ATOM	1346	H	TYR	86	-6.847	3.549	-5.889	1.00	0.00
ATOM	1347	CA	TYR	86	-6.180	1.719	-6.685	1.00	0.00
ATOM	1348	HA	TYR	86	-5.494	0.965	-6.299	1.00	0.00
ATOM	1349	CB	TYR	86	-7.606	1.246	-6.446	1.00	0.00
ATOM	1350	HB2	TYR	86	-8.226	2.141	-6.406	1.00	0.00
ATOM	1351	HB3	TYR	86	-7.898	0.639	-7.304	1.00	0.00
ATOM	1352	CG	TYR	86	-7.794	0.445	-5.174	1.00	0.00
ATOM	1353	CD1	TYR	86	-7.482	1.004	-3.923	1.00	0.00
ATOM	1354	HD1	TYR	86	-7.105	2.025	-3.877	1.00	0.00
ATOM	1355	CE1	TYR	86	-7.650	0.264	-2.743	1.00	0.00
ATOM	1356	HE1	TYR	86	-7.371	0.681	-1.776	1.00	0.00
ATOM	1357	CZ	TYR	86	-8.135	-1.049	-2.827	1.00	0.00

ATOM	1358	OH	TYR	86	-8.347	-1.742	-1.683	1.00	0.00
ATOM	1359	HH	TYR	86	-8.133	-1.239	-0.894	1.00	0.00
ATOM	1360	CE2	TYR	86	-8.450	-1.628	-4.068	1.00	0.00
ATOM	1361	HE2	TYR	86	-8.828	-2.649	-4.127	1.00	0.00
ATOM	1362	CD2	TYR	86	-8.272	-0.875	-5.244	1.00	0.00
ATOM	1363	HD2	TYR	86	-8.505	-1.316	-6.214	1.00	0.00
ATOM	1364	C	TYR	86	-5.973	1.886	-8.166	1.00	0.00
ATOM	1365	O	TYR	86	-5.306	1.084	-8.800	1.00	0.00
ATOM	1366	N	GLN	87	-6.478	2.969	-8.749	1.00	0.00
ATOM	1367	H	GLN	87	-7.038	3.597	-8.190	1.00	0.00
ATOM	1368	CA	GLN	87	-6.310	3.266	-10.147	1.00	0.00
ATOM	1369	HA	GLN	87	-6.640	2.417	-10.746	1.00	0.00
ATOM	1370	CB	GLN	87	-7.134	4.488	-10.538	1.00	0.00
ATOM	1371	HB2	GLN	87	-7.855	4.695	-9.748	1.00	0.00
ATOM	1372	HB3	GLN	87	-6.466	5.342	-10.653	1.00	0.00
ATOM	1373	CG	GLN	87	-7.876	4.241	-11.853	1.00	0.00
ATOM	1374	HG2	GLN	87	-7.258	4.302	-12.749	1.00	0.00
ATOM	1375	HG3	GLN	87	-8.251	3.224	-11.740	1.00	0.00
ATOM	1376	CD	GLN	87	-9.062	5.182	-12.014	1.00	0.00
ATOM	1377	OE1	GLN	87	-9.112	6.248	-11.411	1.00	0.00
ATOM	1378	NE2	GLN	87	-9.928	4.848	-12.936	1.00	0.00
ATOM	1379	HE21	GLN	87	-10.739	5.428	-13.097	1.00	0.00

ATOM	1380	HE22	GLN	87	-9.781	4.011	-13.483	1.00	0.00
ATOM	1381	C	GLN	87	-4.847	3.495	-10.476	1.00	0.00
ATOM	1382	O	GLN	87	-4.472	3.593	-11.638	1.00	0.00
ATOM	1383	N	ILE	88	-3.982	3.604	-9.482	1.00	0.00
ATOM	1384	H	ILE	88	-4.355	3.610	-8.543	1.00	0.00
ATOM	1385	CA	ILE	88	-2.569	3.786	-9.654	1.00	0.00
ATOM	1386	HA	ILE	88	-2.293	3.786	-10.709	1.00	0.00
ATOM	1387	CB	ILE	88	-2.143	5.109	-9.015	1.00	0.00
ATOM	1388	HB	ILE	88	-2.486	5.127	-7.981	1.00	0.00
ATOM	1389	CG2	ILE	88	-0.624	5.261	-9.050	1.00	0.00
ATOM	1390	HG21	ILE	88	-0.280	5.243	-10.084	1.00	0.00
ATOM	1391	HG22	ILE	88	-0.343	6.208	-8.591	1.00	0.00
ATOM	1392	HG23	ILE	88	-0.163	4.440	-8.500	1.00	0.00
ATOM	1393	CG1	ILE	88	-2.809	6.288	-9.729	1.00	0.00
ATOM	1394	HG12	ILE	88	-2.266	6.503	-10.649	1.00	0.00
ATOM	1395	HG13	ILE	88	-3.840	6.026	-9.969	1.00	0.00
ATOM	1396	CD1	ILE	88	-2.794	7.528	-8.824	1.00	0.00
ATOM	1397	HD11	ILE	88	-1.764	7.790	-8.584	1.00	0.00
ATOM	1398	HD12	ILE	88	-3.270	8.361	-9.341	1.00	0.00
ATOM	1399	HD13	ILE	88	-3.338	7.313	-7.904	1.00	0.00
ATOM	1400	C	ILE	88	-1.844	2.594	-9.064	1.00	0.00
ATOM	1401	O	ILE	88	-0.661	2.438	-9.277	1.00	0.00



ATOM	1402	N	ALA	89	-2.544	1.733	-8.346	1.00	0.00
ATOM	1403	H	ALA	89	-3.509	1.950	-8.139	1.00	0.00
ATOM	1404	CA	ALA	89	-1.977	0.535	-7.780	1.00	0.00
ATOM	1405	HA	ALA	89	-0.888	0.582	-7.807	1.00	0.00
ATOM	1406	CB	ALA	89	-2.422	0.414	-6.332	1.00	0.00
ATOM	1407	HB1	ALA	89	-3.510	0.356	-6.289	1.00	0.00
ATOM	1408	HB2	ALA	89	-1.994	-0.488	-5.894	1.00	0.00
ATOM	1409	HB3	ALA	89	-2.083	1.286	-5.773	1.00	0.00
ATOM	1410	C	ALA	89	-2.377	-0.673	-8.610	1.00	0.00
ATOM	1411	O	ALA	89	-2.041	-1.807	-8.281	1.00	0.00
ATOM	1412	N	LYS	90	-3.092	-0.433	-9.715	1.00	0.00
ATOM	1413	H	LYS	90	-3.397	0.512	-9.900	1.00	0.00
ATOM	1414	CA	LYS	90	-3.543	-1.486	-10.601	1.00	0.00
ATOM	1415	HA	LYS	90	-3.496	-2.447	-10.089	1.00	0.00
ATOM	1416	CB	LYS	90	-4.993	-1.232	-11.035	1.00	0.00
ATOM	1417	HB2	LYS	90	-5.510	-2.192	-11.051	1.00	0.00
ATOM	1418	HB3	LYS	90	-5.455	-0.583	-10.291	1.00	0.00
ATOM	1419	CG	LYS	90	-5.091	-0.582	-12.405	1.00	0.00
ATOM	1420	HG2	LYS	90	-4.508	-1.173	-13.112	1.00	0.00
ATOM	1421	HG3	LYS	90	-6.137	-0.578	-12.713	1.00	0.00
ATOM	1422	CD	LYS	90	-4.567	0.836	-12.380	1.00	0.00
ATOM	1423	HD2	LYS	90	-5.252	1.454	-11.799	1.00	0.00

ATOM	1424	HD3 LYS	90	-3.585	0.839	-11.907	1.00	0.00
ATOM	1425	CE LYS	90	-4.452	1.397	-13.796	1.00	0.00
ATOM	1426	HE2 LYS	90	-4.027	0.628	-14.442	1.00	0.00
ATOM	1427	HE3 LYS	90	-5.450	1.656	-14.150	1.00	0.00
ATOM	1428	NZ LYS	90	-3.594	2.594	-13.827	1.00	0.00
ATOM	1429	HZ1 LYS	90	-2.669	2.354	-13.500	1.00	0.00
ATOM	1430	HZ2 LYS	90	-3.536	2.942	-14.773	1.00	0.00
ATOM	1431	HZ3 LYS	90	-3.988	3.306	-13.230	1.00	0.00
ATOM	1432	C LYS	90	-2.586	-1.606	-11.758	1.00	0.00
ATOM	1433	O LYS	90	-2.604	-2.580	-12.492	1.00	0.00
ATOM	1434	N ASN	91	-1.782	-0.557	-11.976	1.00	0.00
ATOM	1435	H ASN	91	-1.879	0.258	-11.388	1.00	0.00
ATOM	1436	CA ASN	91	-0.800	-0.528	-13.023	1.00	0.00
ATOM	1437	HA ASN	91	-1.121	-1.165	-13.848	1.00	0.00
ATOM	1438	CB ASN	91	-0.617	0.897	-13.548	1.00	0.00
ATOM	1439	HB2 ASN	91	0.261	0.885	-14.193	1.00	0.00
ATOM	1440	HB3 ASN	91	-1.486	1.215	-14.124	1.00	0.00
ATOM	1441	CG ASN	91	-0.386	1.888	-12.439	1.00	0.00
ATOM	1442	OD1 ASN	91	0.256	1.587	-11.462	1.00	0.00
ATOM	1443	ND2 ASN	91	-0.971	3.061	-12.591	1.00	0.00
ATOM	1444	HD21 ASN	91	-0.858	3.773	-11.884	1.00	0.00
ATOM	1445	HD22 ASN	91	-1.529	3.240	-13.414	1.00	0.00

ATOM	1446	C	ASN	91	0.538	-1.051	-12.510	1.00	0.00
ATOM	1447	O	ASN	91	1.534	-1.016	-13.224	1.00	0.00
ATOM	1448	N	LEU	92	0.573	-1.454	-11.244	1.00	0.00
ATOM	1449	H	LEU	92	-0.246	-1.325	-10.667	1.00	0.00
ATOM	1450	CA	LEU	92	1.755	-2.004	-10.636	1.00	0.00
ATOM	1451	HA	LEU	92	2.627	-1.409	-10.906	1.00	0.00
ATOM	1452	CB	LEU	92	1.607	-1.993	-9.108	1.00	0.00
ATOM	1453	HB2	LEU	92	0.530	-1.976	-8.943	1.00	0.00
ATOM	1454	HB3	LEU	92	2.025	-2.906	-8.683	1.00	0.00
ATOM	1455	CG	LEU	92	2.247	-0.775	-8.432	1.00	0.00
ATOM	1456	HG	LEU	92	2.065	0.109	-9.043	1.00	0.00
ATOM	1457	CD1	LEU	92	1.646	-0.565	-7.040	1.00	0.00
ATOM	1458	HD11	LEU	92	1.828	-1.449	-6.428	1.00	0.00
ATOM	1459	HD12	LEU	92	2.109	0.303	-6.571	1.00	0.00
ATOM	1460	HD13	LEU	92	0.572	-0.400	-7.129	1.00	0.00
ATOM	1461	CD2	LEU	92	3.763	-0.919	-8.363	1.00	0.00
ATOM	1462	HD21	LEU	92	4.166	-1.010	-9.372	1.00	0.00
ATOM	1463	HD22	LEU	92	4.190	-0.041	-7.879	1.00	0.00
ATOM	1464	HD23	LEU	92	4.018	-1.810	-7.789	1.00	0.00
ATOM	1465	C	LEU	92	2.011	-3.403	-11.166	1.00	0.00
ATOM	1466	O	LEU	92	3.093	-3.662	-11.651	1.00	0.00
ATOM	1467	N	PRO	93	0.995	-4.280	-11.155	1.00	0.00

ATOM	1468	CD	PRO	93	-0.349	-4.029	-10.662	1.00	0.00
ATOM	1469	HD2	PRO	93	-0.810	-3.299	-11.327	1.00	0.00
ATOM	1470	HD3	PRO	93	-0.257	-3.603	-9.663	1.00	0.00
ATOM	1471	CG	PRO	93	-1.080	-5.354	-10.659	1.00	0.00
ATOM	1472	HG2	PRO	93	-1.920	-5.303	-11.352	1.00	0.00
ATOM	1473	HG3	PRO	93	-1.451	-5.558	-9.655	1.00	0.00
ATOM	1474	CB	PRO	93	-0.062	-6.412	-11.091	1.00	0.00
ATOM	1475	HB2	PRO	93	-0.473	-7.087	-11.842	1.00	0.00
ATOM	1476	HB3	PRO	93	0.276	-6.989	-10.231	1.00	0.00
ATOM	1477	CA	PRO	93	1.107	-5.626	-11.684	1.00	0.00
ATOM	1478	HA	PRO	93	2.024	-6.066	-11.291	1.00	0.00
ATOM	1479	C	PRO	93	1.142	-5.656	-13.202	1.00	0.00
ATOM	1480	O	PRO	93	1.265	-6.723	-13.799	1.00	0.00
ATOM	1481	N	ASN	94	1.035	-4.473	-13.812	1.00	0.00
ATOM	1482	H	ASN	94	0.932	-3.634	-13.259	1.00	0.00
ATOM	1483	CA	ASN	94	1.066	-4.347	-15.239	1.00	0.00
ATOM	1484	HA	ASN	94	0.629	-5.232	-15.702	1.00	0.00
ATOM	1485	CB	ASN	94	0.261	-3.121	-15.673	1.00	0.00
ATOM	1486	HB2	ASN	94	0.491	-2.286	-15.012	1.00	0.00
ATOM	1487	HB3	ASN	94	0.541	-2.863	-16.694	1.00	0.00
ATOM	1488	CG	ASN	94	-1.228	-3.376	-15.630	1.00	0.00
ATOM	1489	OD1	ASN	94	-1.704	-4.496	-15.563	1.00	0.00

ATOM	1490	ND2	ASN	94	-1.985	-2.294	-15.662	1.00	0.00
ATOM	1491	HD21	ASN	94	-2.991	-2.384	-15.637	1.00	0.00
ATOM	1492	HD22	ASN	94	-1.555	-1.382	-15.712	1.00	0.00
ATOM	1493	C	ASN	94	2.495	-4.184	-15.715	1.00	0.00
ATOM	1494	O	ASN	94	2.882	-4.727	-16.742	1.00	0.00
ATOM	1495	N	VAL	95	3.277	-3.411	-14.959	1.00	0.00
ATOM	1496	H	VAL	95	2.881	-2.932	-14.163	1.00	0.00
ATOM	1497	CA	VAL	95	4.670	-3.171	-15.282	1.00	0.00
ATOM	1498	HA	VAL	95	4.931	-3.536	-16.276	1.00	0.00
ATOM	1499	CB	VAL	95	4.959	-1.670	-15.220	1.00	0.00
ATOM	1500	HB	VAL	95	4.824	-1.330	-14.193	1.00	0.00
ATOM	1501	CG1	VAL	95	6.386	-1.368	-15.673	1.00	0.00
ATOM	1502	HG11	VAL	95	6.521	-1.708	-16.700	1.00	0.00
ATOM	1503	HG12	VAL	95	6.565	-0.295	-15.619	1.00	0.00
ATOM	1504	HG13	VAL	95	7.091	-1.887	-15.024	1.00	0.00
ATOM	1505	CG2	VAL	95	3.957	-0.892	-16.085	1.00	0.00
ATOM	1506	HG21	VAL	95	2.945	-1.073	-15.721	1.00	0.00
ATOM	1507	HG22	VAL	95	4.178	0.173	-16.029	1.00	0.00
ATOM	1508	HG23	VAL	95	4.035	-1.225	-17.120	1.00	0.00
ATOM	1509	C	VAL	95	5.567	-3.962	-14.342	1.00	0.00
ATOM	1510	O	VAL	95	6.774	-4.028	-14.524	1.00	0.00
ATOM	1511	N	CYX	96	4.962	-4.621	-13.358	1.00	0.00

ATOM	1512	H	CYX	96	3.965	-4.509	-13.246	1.00	0.00
ATOM	1513	CA	CYX	96	5.671	-5.413	-12.393	1.00	0.00
ATOM	1514	HA	CYX	96	6.710	-5.509	-12.708	1.00	0.00
ATOM	1515	CB	CYX	96	5.639	-4.788	-10.998	1.00	0.00
ATOM	1516	HB2	CYX	96	4.636	-4.880	-10.581	1.00	0.00
ATOM	1517	HB3	CYX	96	6.349	-5.304	-10.352	1.00	0.00
ATOM	1518	SG	CYX	96	6.060	-3.053	-10.963	1.00	0.00
ATOM	1519	C	CYX	96	5.091	-6.789	-12.413	1.00	0.00
ATOM	1520	O	CYX	96	4.965	-7.323	-11.337	1.00	0.00
ATOM	1521	N	ASN	97	4.714	-7.312	-13.591	1.00	0.00
ATOM	1522	H	ASN	97	4.843	-6.746	-14.417	1.00	0.00
ATOM	1523	CA	ASN	97	4.137	-8.630	-13.746	1.00	0.00
ATOM	1524	HA	ASN	97	3.050	-8.555	-13.771	1.00	0.00
ATOM	1525	CB	ASN	97	4.611	-9.278	-15.047	1.00	0.00
ATOM	1526	HB2	ASN	97	5.593	-8.897	-15.327	1.00	0.00
ATOM	1527	HB3	ASN	97	4.673	-10.354	-14.882	1.00	0.00
ATOM	1528	CG	ASN	97	3.655	-9.020	-16.179	1.00	0.00
ATOM	1529	OD1	ASN	97	2.924	-9.890	-16.622	1.00	0.00
ATOM	1530	ND2	ASN	97	3.645	-7.784	-16.628	1.00	0.00
ATOM	1531	HD21	ASN	97	3.029	-7.531	-17.388	1.00	0.00
ATOM	1532	HD22	ASN	97	4.253	-7.094	-16.211	1.00	0.00
ATOM	1533	C	ASN	97	4.533	-9.549	-12.592	1.00	0.00

ATOM	1534	O	ASN	97	5.636	-10.096	-12.586	1.00	0.00
ATOM	1535	N	MET	98	3.664	-9.628	-11.587	1.00	0.00
ATOM	1536	H	MET	98	2.789	-9.126	-11.639	1.00	0.00
ATOM	1537	CA	MET	98	3.964	-10.358	-10.376	1.00	0.00
ATOM	1538	HA	MET	98	4.812	-11.019	-10.558	1.00	0.00
ATOM	1539	CB	MET	98	4.313	-9.423	-9.220	1.00	0.00
ATOM	1540	HB2	MET	98	4.652	-10.023	-8.375	1.00	0.00
ATOM	1541	HB3	MET	98	5.115	-8.757	-9.538	1.00	0.00
ATOM	1542	CG	MET	98	3.102	-8.596	-8.802	1.00	0.00
ATOM	1543	HG2	MET	98	2.238	-8.945	-9.367	1.00	0.00
ATOM	1544	HG3	MET	98	2.928	-8.757	-7.738	1.00	0.00
ATOM	1545	SD	MET	98	3.335	-6.851	-9.102	1.00	0.00
ATOM	1546	CE	MET	98	2.002	-6.156	-8.168	1.00	0.00
ATOM	1547	HE1	MET	98	2.110	-6.433	-7.119	1.00	0.00
ATOM	1548	HE2	MET	98	2.020	-5.070	-8.261	1.00	0.00
ATOM	1549	HE3	MET	98	1.054	-6.537	-8.548	1.00	0.00
ATOM	1550	C	MET	98	2.789	-11.239	-10.033	1.00	0.00
ATOM	1551	O	MET	98	2.718	-11.807	-8.953	1.00	0.00
ATOM	1552	N	LYS	99	1.805	-11.319	-10.937	1.00	0.00
ATOM	1553	H	LYS	99	1.852	-10.710	-11.742	1.00	0.00
ATOM	1554	CA	LYS	99	0.616	-12.103	-10.745	1.00	0.00
ATOM	1555	HA	LYS	99	0.816	-12.929	-10.062	1.00	0.00

ATOM	1556	CB	LYS	99	-0.492	-11.226	-10.143	1.00	0.00
ATOM	1557	HB2	LYS	99	-0.422	-11.277	-9.057	1.00	0.00
ATOM	1558	HB3	LYS	99	-0.335	-10.198	-10.469	1.00	0.00
ATOM	1559	CG	LYS	99	-1.884	-11.697	-10.588	1.00	0.00
ATOM	1560	HG2	LYS	99	-1.819	-12.731	-10.928	1.00	0.00
ATOM	1561	HG3	LYS	99	-2.568	-11.636	-9.742	1.00	0.00
ATOM	1562	CD	LYS	99	-2.407	-10.810	-11.737	1.00	0.00
ATOM	1563	HD2	LYS	99	-3.124	-10.098	-11.329	1.00	0.00
ATOM	1564	HD3	LYS	99	-1.566	-10.270	-12.171	1.00	0.00
ATOM	1565	CE	LYS	99	-3.090	-11.659	-12.828	1.00	0.00
ATOM	1566	HE2	LYS	99	-2.927	-12.713	-12.601	1.00	0.00
ATOM	1567	HE3	LYS	99	-4.159	-11.446	-12.816	1.00	0.00
ATOM	1568	NZ	LYS	99	-2.542	-11.353	-14.167	1.00	0.00
ATOM	1569	HZ1	LYS	99	-1.552	-11.551	-14.179	1.00	0.00
ATOM	1570	HZ2	LYS	99	-3.007	-11.923	-14.859	1.00	0.00
ATOM	1571	HZ3	LYS	99	-2.693	-10.377	-14.378	1.00	0.00
ATOM	1572	C	LYS	99	0.280	-12.794	-12.047	1.00	0.00
ATOM	1573	O	LYS	99	-0.409	-12.261	-12.893	1.00	0.00
ATOM	1574	N	GLN	100	0.785	-13.986	-12.256	1.00	0.00
ATOM	1575	H	GLN	100	1.428	-14.391	-11.591	1.00	0.00
ATOM	1576	CA	GLN	100	0.489	-14.727	-13.460	1.00	0.00
ATOM	1577	HA	GLN	100	0.557	-14.074	-14.330	1.00	0.00



ATOM	1578	CB	GLN	100	1.497	-15.870	-13.625	1.00	0.00
ATOM	1579	HB2	GLN	100	2.406	-15.627	-13.075	1.00	0.00
ATOM	1580	HB3	GLN	100	1.065	-16.788	-13.225	1.00	0.00
ATOM	1581	CG	GLN	100	1.835	-16.068	-15.107	1.00	0.00
ATOM	1582	HG2	GLN	100	1.968	-15.076	-15.538	1.00	0.00
ATOM	1583	HG3	GLN	100	2.757	-16.639	-15.218	1.00	0.00
ATOM	1584	CD	GLN	100	0.725	-16.784	-15.867	1.00	0.00
ATOM	1585	OE1	GLN	100	-0.335	-17.093	-15.361	1.00	0.00
ATOM	1586	NE2	GLN	100	0.989	-17.102	-17.112	1.00	0.00
ATOM	1587	HE21	GLN	100	0.292	-17.578	-17.667	1.00	0.00
ATOM	1588	HE22	GLN	100	1.888	-16.870	-17.510	1.00	0.00
ATOM	1589	C	GLN	100	-0.935	-15.258	-13.422	1.00	0.00
ATOM	1590	O	GLN	100	-1.696	-15.047	-14.359	1.00	0.00
ATOM	1591	N	ILE	101	-1.286	-15.901	-12.308	1.00	0.00
ATOM	1592	H	ILE	101	-0.588	-16.090	-11.603	1.00	0.00
ATOM	1593	CA	ILE	101	-2.603	-16.451	-12.128	1.00	0.00
ATOM	1594	HA	ILE	101	-2.912	-17.064	-12.975	1.00	0.00
ATOM	1595	CB	ILE	101	-2.681	-17.285	-10.836	1.00	0.00
ATOM	1596	HB	ILE	101	-2.255	-18.270	-11.026	1.00	0.00
ATOM	1597	CG2	ILE	101	-1.912	-16.608	-9.712	1.00	0.00
ATOM	1598	HG21	ILE	101	-2.338	-15.623	-9.522	1.00	0.00
ATOM	1599	HG22	ILE	101	-1.980	-17.214	-8.809	1.00	0.00

ATOM	1600	HG23	ILE	101	-0.866	-16.502	-10.000	1.00	0.00
ATOM	1601	CG1	ILE	101	-4.136	-17.560	-10.422	1.00	0.00
ATOM	1602	HG12	ILE	101	-4.155	-18.420	-9.752	1.00	0.00
ATOM	1603	HG13	ILE	101	-4.525	-16.686	-9.901	1.00	0.00
ATOM	1604	CD1	ILE	101	-5.005	-17.851	-11.652	1.00	0.00
ATOM	1605	HD11	ILE	101	-4.616	-18.726	-12.173	1.00	0.00
ATOM	1606	HD12	ILE	101	-6.030	-18.043	-11.336	1.00	0.00
ATOM	1607	HD13	ILE	101	-4.987	-16.992	-12.322	1.00	0.00
ATOM	1608	C	ILE	101	-3.634	-15.320	-12.191	1.00	0.00
ATOM	1609	O	ILE	101	-4.158	-14.986	-13.248	1.00	0.00
ATOM	1610	N	GLY	102	-3.933	-14.705	-11.042	1.00	0.00
ATOM	1611	H	GLY	102	-3.440	-14.971	-10.201	1.00	0.00
ATOM	1612	CA	GLY	102	-4.931	-13.676	-10.950	1.00	0.00
ATOM	1613	HA2	GLY	102	-4.464	-12.714	-11.161	1.00	0.00
ATOM	1614	HA3	GLY	102	-5.707	-13.873	-11.690	1.00	0.00
ATOM	1615	C	GLY	102	-5.559	-13.626	-9.584	1.00	0.00
ATOM	1616	O	GLY	102	-6.657	-14.092	-9.349	1.00	0.00
ATOM	1617	N	THR	103	-4.846	-13.034	-8.646	1.00	0.00
ATOM	1618	H	THR	103	-3.930	-12.687	-8.891	1.00	0.00
ATOM	1619	CA	THR	103	-5.279	-12.923	-7.258	1.00	0.00
ATOM	1620	HA	THR	103	-5.837	-13.835	-7.044	1.00	0.00
ATOM	1621	CB	THR	103	-4.039	-12.886	-6.361	1.00	0.00

ATOM	1622	HB	THR	103	-4.055	-11.957	-5.792	1.00	0.00
ATOM	1623	CG2	THR	103	-4.002	-14.071	-5.399	1.00	0.00
ATOM	1624	HG21	THR	103	-3.986	-15.001	-5.968	1.00	0.00
ATOM	1625	HG22	THR	103	-3.107	-14.009	-4.780	1.00	0.00
ATOM	1626	HG23	THR	103	-4.886	-14.051	-4.762	1.00	0.00
ATOM	1627	OG1	THR	103	-2.887	-13.063	-7.185	1.00	0.00
ATOM	1628	HG1	THR	103	-2.097	-13.043	-6.640	1.00	0.00
ATOM	1629	C	THR	103	-6.158	-11.699	-7.092	1.00	0.00
ATOM	1630	O	THR	103	-7.276	-11.796	-6.588	1.00	0.00
ATOM	1631	N	CYX	104	-5.670	-10.540	-7.555	1.00	0.00
ATOM	1632	H	CYX	104	-4.711	-10.503	-7.870	1.00	0.00
ATOM	1633	CA	CYX	104	-6.432	-9.307	-7.526	1.00	0.00
ATOM	1634	HA	CYX	104	-7.471	-9.519	-7.274	1.00	0.00
ATOM	1635	CB	CYX	104	-5.858	-8.352	-6.475	1.00	0.00
ATOM	1636	HB2	CYX	104	-6.581	-7.564	-6.266	1.00	0.00
ATOM	1637	HB3	CYX	104	-5.648	-8.904	-5.559	1.00	0.00
ATOM	1638	SG	CYX	104	-4.283	-7.505	-6.891	1.00	0.00
ATOM	1639	C	CYX	104	-6.468	-8.705	-8.923	1.00	0.00
ATOM	1640	O	CYX	104	-5.857	-7.678	-9.192	1.00	0.00
ATOM	1641	N	PRO	105	-7.134	-9.382	-9.860	1.00	0.00
ATOM	1642	CD	PRO	105	-7.867	-10.622	-9.663	1.00	0.00
ATOM	1643	HD2	PRO	105	-8.718	-10.407	-9.016	1.00	0.00

ATOM	1644	HD3 PRO	105	-7.202	-11.328	-9.165	1.00	0.00
ATOM	1645	CG PRO	105	-8.291	-11.101	-11.049	1.00	0.00
ATOM	1646	HG2 PRO	105	-9.380	-11.117	-11.103	1.00	0.00
ATOM	1647	HG3 PRO	105	-7.906	-12.108	-11.212	1.00	0.00
ATOM	1648	CB PRO	105	-7.695	-10.118	-12.059	1.00	0.00
ATOM	1649	HB2 PRO	105	-8.420	-9.808	-12.811	1.00	0.00
ATOM	1650	HB3 PRO	105	-6.829	-10.560	-12.551	1.00	0.00
ATOM	1651	CA PRO	105	-7.263	-8.913	-11.226	1.00	0.00
ATOM	1652	HA PRO	105	-6.271	-8.633	-11.581	1.00	0.00
ATOM	1653	C PRO	105	-8.200	-7.720	-11.345	1.00	0.00
ATOM	1654	O PRO	105	-9.148	-7.723	-12.120	1.00	0.00
ATOM	1655	N PHE	106	-7.951	-6.695	-10.540	1.00	0.00
ATOM	1656	H PHE	106	-7.151	-6.744	-9.926	1.00	0.00
ATOM	1657	CA PHE	106	-8.757	-5.508	-10.514	1.00	0.00
ATOM	1658	HA PHE	106	-9.793	-5.731	-10.770	1.00	0.00
ATOM	1659	CB PHE	106	-8.715	-4.949	-9.096	1.00	0.00
ATOM	1660	HB2 PHE	106	-9.647	-4.446	-8.839	1.00	0.00
ATOM	1661	HB3 PHE	106	-8.547	-5.776	-8.406	1.00	0.00
ATOM	1662	CG PHE	106	-7.600	-3.948	-8.854	1.00	0.00
ATOM	1663	CD1 PHE	106	-6.276	-4.381	-8.691	1.00	0.00
ATOM	1664	HD1 PHE	106	-6.054	-5.448	-8.736	1.00	0.00
ATOM	1665	CE1 PHE	106	-5.247	-3.462	-8.473	1.00	0.00

ATOM	1666	HE1 PHE	106	-4.215	-3.800	-8.374	1.00	0.00
ATOM	1667	CZ PHE	106	-5.548	-2.104	-8.383	1.00	0.00
ATOM	1668	HZ PHE	106	-4.761	-1.389	-8.145	1.00	0.00
ATOM	1669	CE2 PHE	106	-6.857	-1.658	-8.597	1.00	0.00
ATOM	1670	HE2 PHE	106	-7.076	-0.591	-8.580	1.00	0.00
ATOM	1671	CD2 PHE	106	-7.881	-2.576	-8.832	1.00	0.00
ATOM	1672	HD2 PHE	106	-8.900	-2.226	-8.999	1.00	0.00
ATOM	1673	C PHE	106	-8.221	-4.475	-11.458	1.00	0.00
ATOM	1674	O PHE	106	-7.024	-4.508	-11.734	1.00	0.00
ATOM	1675	N ILE	107	-9.082	-3.550	-11.885	1.00	0.00
ATOM	1676	H ILE	107	-10.042	-3.601	-11.576	1.00	0.00
ATOM	1677	CA ILE	107	-8.718	-2.511	-12.831	1.00	0.00
ATOM	1678	HA ILE	107	-8.110	-1.733	-12.370	1.00	0.00
ATOM	1679	CB ILE	107	-7.973	-3.088	-14.055	1.00	0.00
ATOM	1680	HB ILE	107	-8.287	-2.547	-14.948	1.00	0.00
ATOM	1681	CG2 ILE	107	-6.453	-2.946	-13.878	1.00	0.00
ATOM	1682	HG21 ILE	107	-6.139	-3.488	-12.986	1.00	0.00
ATOM	1683	HG22 ILE	107	-5.945	-3.358	-14.750	1.00	0.00
ATOM	1684	HG23 ILE	107	-6.196	-1.892	-13.773	1.00	0.00
ATOM	1685	CG1 ILE	107	-8.373	-4.555	-14.330	1.00	0.00
ATOM	1686	HG12 ILE	107	-7.662	-5.209	-13.824	1.00	0.00
ATOM	1687	HG13 ILE	107	-9.371	-4.723	-13.926	1.00	0.00

ATOM	1688	CD1	ILE	107	-8.371	-4.859	-15.808	1.00	0.00
ATOM	1689	HD11	ILE	107	-7.373	-4.692	-16.213	1.00	0.00
ATOM	1690	HD12	ILE	107	-8.657	-5.899	-15.966	1.00	0.00
ATOM	1691	HD13	ILE	107	-9.082	-4.207	-16.315	1.00	0.00
ATOM	1692	C	ILE	107	-9.950	-1.750	-13.269	1.00	0.00
ATOM	1693	O	ILE	107	-9.867	-0.537	-13.404	1.00	0.00
ATOM	1694	N	ALA	108	-11.065	-2.459	-13.481	1.00	0.00
ATOM	1695	H	ALA	108	-11.019	-3.467	-13.430	1.00	0.00
ATOM	1696	CA	ALA	108	-12.320	-1.849	-13.856	1.00	0.00
ATOM	1697	HA	ALA	108	-12.159	-1.130	-14.659	1.00	0.00
ATOM	1698	CB	ALA	108	-13.275	-2.932	-14.355	1.00	0.00
ATOM	1699	HB1	ALA	108	-13.454	-3.655	-13.559	1.00	0.00
ATOM	1700	HB2	ALA	108	-14.220	-2.476	-14.650	1.00	0.00
ATOM	1701	HB3	ALA	108	-12.834	-3.439	-15.213	1.00	0.00
ATOM	1702	C	ALA	108	-12.903	-1.067	-12.680	1.00	0.00
ATOM	1703	O	ALA	108	-13.942	-1.426	-12.139	1.00	0.00
ATOM	1704	N	ILE	109	-12.214	-0.013	-12.272	1.00	0.00
ATOM	1705	H	ILE	109	-11.328	0.155	-12.726	1.00	0.00
ATOM	1706	CA	ILE	109	-12.576	0.818	-11.147	1.00	0.00
ATOM	1707	HA	ILE	109	-13.623	0.697	-10.867	1.00	0.00
ATOM	1708	CB	ILE	109	-11.683	0.534	-9.927	1.00	0.00
ATOM	1709	HB	ILE	109	-11.549	1.457	-9.364	1.00	0.00

ATOM	1710	CG2	ILE	109	-12.327	-0.528	-9.022	1.00	0.00
ATOM	1711	HG21	ILE	109	-12.461	-1.452	-9.584	1.00	0.00
ATOM	1712	HG22	ILE	109	-11.681	-0.716	-8.165	1.00	0.00
ATOM	1713	HG23	ILE	109	-13.296	-0.171	-8.675	1.00	0.00
ATOM	1714	CG1	ILE	109	-10.258	0.124	-10.326	1.00	0.00
ATOM	1715	HG12	ILE	109	-9.725	-0.210	-9.436	1.00	0.00
ATOM	1716	HG13	ILE	109	-10.315	-0.695	-11.043	1.00	0.00
ATOM	1717	CD1	ILE	109	-9.514	1.296	-10.953	1.00	0.00
ATOM	1718	HD11	ILE	109	-9.456	2.115	-10.237	1.00	0.00
ATOM	1719	HD12	ILE	109	-8.507	0.982	-11.228	1.00	0.00
ATOM	1720	HD13	ILE	109	-10.046	1.630	-11.844	1.00	0.00
ATOM	1721	C	ILE	109	-12.580	2.293	-11.578	1.00	0.00
ATOM	1722	O	ILE	109	-13.607	2.953	-11.392	1.00	0.00
ATOM	1723	OXT	ILE	109	-11.567	2.788	-12.106	1.00	0.00
TER									
ATOM	1724	S1	LIG	110	18.164	-15.327	-4.429	1.00	0.00
ATOM	1725	O1	LIG	110	20.188	-19.119	-2.802	1.00	0.00
ATOM	1726	O2	LIG	110	16.769	-14.735	-5.050	1.00	0.00
ATOM	1727	O3	LIG	110	18.640	-14.927	-2.923	1.00	0.00
ATOM	1728	N1	LIG	110	17.793	-17.147	-4.501	1.00	0.00
ATOM	1729	H1	LIG	110	16.786	-17.243	-4.596	1.00	0.00
ATOM	1730	N2	LIG	110	19.826	-17.960	-3.613	1.00	0.00

ATOM	1731	N3	LIG	110	22.573	-14.285	-8.362	1.00	0.00
ATOM	1732	H10	LIG	110	22.376	-13.880	-9.262	1.00	0.00
ATOM	1733	H11	LIG	110	23.531	-14.496	-8.142	1.00	0.00
ATOM	1734	C1	LIG	110	19.535	-15.046	-5.637	1.00	0.00
ATOM	1735	C2	LIG	110	19.201	-14.487	-6.869	1.00	0.00
ATOM	1736	H2	LIG	110	18.167	-14.249	-7.094	1.00	0.00
ATOM	1737	C3	LIG	110	20.845	-15.361	-5.278	1.00	0.00
ATOM	1738	H3	LIG	110	21.062	-15.819	-4.321	1.00	0.00
ATOM	1739	C4	LIG	110	18.504	-18.077	-3.766	1.00	0.00
ATOM	1740	C5	LIG	110	21.565	-14.537	-7.460	1.00	0.00
ATOM	1741	C6	LIG	110	20.220	-14.231	-7.781	1.00	0.00
ATOM	1742	H4	LIG	110	19.983	-13.792	-8.744	1.00	0.00
ATOM	1743	C7	LIG	110	21.858	-15.106	-6.196	1.00	0.00
ATOM	1744	H5	LIG	110	22.885	-15.349	-5.943	1.00	0.00
ATOM	1745	C8	LIG	110	17.973	-19.250	-3.126	1.00	0.00
ATOM	1746	H6	LIG	110	16.943	-19.565	-3.103	1.00	0.00
ATOM	1747	C9	LIG	110	19.049	-19.863	-2.553	1.00	0.00
ATOM	1748	C10	LIG	110	19.220	-21.098	-1.743	1.00	0.00
ATOM	1749	H7	LIG	110	18.257	-21.597	-1.602	1.00	0.00
ATOM	1750	H8	LIG	110	19.906	-21.796	-2.235	1.00	0.00
ATOM	1751	H9	LIG	110	19.639	-20.863	-0.759	1.00	0.00

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ATOM	1752	S1	LIG	111	18.119	-14.532	16.073	1.00	0.00
ATOM	1753	O1	LIG	111	15.184	-12.219	13.398	1.00	0.00
ATOM	1754	O2	LIG	111	18.685	-16.026	16.432	1.00	0.00
ATOM	1755	O3	LIG	111	19.049	-13.461	15.271	1.00	0.00
ATOM	1756	N1	LIG	111	16.655	-14.994	15.024	1.00	0.00
ATOM	1757	H1	LIG	111	16.795	-15.955	14.725	1.00	0.00
ATOM	1758	N2	LIG	111	15.865	-12.820	14.541	1.00	0.00
ATOM	1759	N3	LIG	111	15.960	-12.074	21.102	1.00	0.00
ATOM	1760	H10	LIG	111	15.922	-12.601	21.957	1.00	0.00
ATOM	1761	H11	LIG	111	15.636	-11.122	21.122	1.00	0.00
ATOM	1762	C1	LIG	111	17.419	-13.764	17.601	1.00	0.00
ATOM	1763	C2	LIG	111	17.388	-14.544	18.756	1.00	0.00
ATOM	1764	H2	LIG	111	17.750	-15.565	18.730	1.00	0.00
ATOM	1765	C3	LIG	111	16.983	-12.440	17.570	1.00	0.00
ATOM	1766	H3	LIG	111	16.998	-11.874	16.646	1.00	0.00
ATOM	1767	C4	LIG	111	16.040	-14.093	14.175	1.00	0.00
ATOM	1768	C5	LIG	111	16.443	-12.636	19.942	1.00	0.00
ATOM	1769	C6	LIG	111	16.899	-13.976	19.928	1.00	0.00
ATOM	1770	H4	LIG	111	16.870	-14.564	20.840	1.00	0.00
ATOM	1771	C7	LIG	111	16.492	-11.880	18.745	1.00	0.00
ATOM	1772	H5	LIG	111	16.140	-10.854	18.743	1.00	0.00
ATOM	1773	C8	LIG	111	15.501	-14.375	12.873	1.00	0.00

ATOM	1774	H6	LIG	111	15.518	-15.320	12.355	1.00	0.00
ATOM	1775	C9	LIG	111	14.978	-13.193	12.438	1.00	0.00
ATOM	1776	C10	LIG	111	14.284	-12.770	11.193	1.00	0.00
ATOM	1777	H7	LIG	111	14.185	-13.614	10.506	1.00	0.00
ATOM	1778	H8	LIG	111	13.284	-12.382	11.416	1.00	0.00
ATOM	1779	H9	LIG	111	14.841	-11.972	10.689	1.00	0.00
TER									
ATOM	1780	S1	LIG	112	-6.616	-7.351	15.094	1.00	0.00
ATOM	1781	O1	LIG	112	-6.079	-11.771	16.233	1.00	0.00
ATOM	1782	O2	LIG	112	-6.677	-6.308	13.833	1.00	0.00
ATOM	1783	O3	LIG	112	-7.964	-7.729	15.926	1.00	0.00
ATOM	1784	N1	LIG	112	-5.978	-8.864	14.221	1.00	0.00
ATOM	1785	H1	LIG	112	-6.141	-8.725	13.227	1.00	0.00
ATOM	1786	N2	LIG	112	-5.894	-10.332	16.071	1.00	0.00
ATOM	1787	N3	LIG	112	-2.289	-5.539	18.833	1.00	0.00
ATOM	1788	H10	LIG	112	-1.698	-4.759	18.599	1.00	0.00
ATOM	1789	H11	LIG	112	-2.137	-5.993	19.717	1.00	0.00
ATOM	1790	C1	LIG	112	-5.268	-6.833	16.247	1.00	0.00
ATOM	1791	C2	LIG	112	-4.479	-5.748	15.866	1.00	0.00
ATOM	1792	H2	LIG	112	-4.657	-5.255	14.918	1.00	0.00
ATOM	1793	C3	LIG	112	-5.102	-7.502	17.459	1.00	0.00
ATOM	1794	H3	LIG	112	-5.717	-8.357	17.708	1.00	0.00

ATOM	1795	C4	LIG	112	-6.085	-10.131	14.763	1.00	0.00
ATOM	1796	C5	LIG	112	-3.276	-5.967	17.975	1.00	0.00
ATOM	1797	C6	LIG	112	-3.481	-5.315	16.734	1.00	0.00
ATOM	1798	H4	LIG	112	-2.858	-4.471	16.461	1.00	0.00
ATOM	1799	C7	LIG	112	-4.100	-7.066	18.320	1.00	0.00
ATOM	1800	H5	LIG	112	-3.947	-7.575	19.266	1.00	0.00
ATOM	1801	C8	LIG	112	-6.363	-11.347	14.050	1.00	0.00
ATOM	1802	H6	LIG	112	-6.555	-11.450	12.994	1.00	0.00
ATOM	1803	C9	LIG	112	-6.342	-12.330	14.996	1.00	0.00
ATOM	1804	C10	LIG	112	-6.551	-13.802	14.956	1.00	0.00
ATOM	1805	H7	LIG	112	-6.760	-14.129	13.935	1.00	0.00
ATOM	1806	H8	LIG	112	-5.665	-14.333	15.320	1.00	0.00
ATOM	1807	H9	LIG	112	-7.393	-14.091	15.595	1.00	0.00
TER									
ATOM	1808	S1	LIG	113	16.910	9.419	-18.652	1.00	0.00
ATOM	1809	O1	LIG	113	14.508	12.764	-20.692	1.00	0.00
ATOM	1810	O2	LIG	113	17.081	8.573	-17.261	1.00	0.00
ATOM	1811	O3	LIG	113	16.273	8.719	-19.978	1.00	0.00
ATOM	1812	N1	LIG	113	15.783	10.774	-18.061	1.00	0.00
ATOM	1813	H1	LIG	113	15.363	10.454	-17.193	1.00	0.00
ATOM	1814	N2	LIG	113	15.575	11.972	-20.087	1.00	0.00
ATOM	1815	N3	LIG	113	22.177	11.976	-19.962	1.00	0.00

ATOM	1816	H10	LIG	113	22.955	11.906	-19.329	1.00	0.00
ATOM	1817	H11	LIG	113	22.316	12.477	-20.823	1.00	0.00
ATOM	1818	C1	LIG	113	18.513	10.244	-19.063	1.00	0.00
ATOM	1819	C2	LIG	113	19.554	10.115	-18.145	1.00	0.00
ATOM	1820	H2	LIG	113	19.402	9.563	-17.225	1.00	0.00
ATOM	1821	C3	LIG	113	18.647	10.927	-20.271	1.00	0.00
ATOM	1822	H3	LIG	113	17.807	11.028	-20.946	1.00	0.00
ATOM	1823	C4	LIG	113	15.048	11.557	-18.931	1.00	0.00
ATOM	1824	C5	LIG	113	20.963	11.402	-19.663	1.00	0.00
ATOM	1825	C6	LIG	113	20.782	10.696	-18.448	1.00	0.00
ATOM	1826	H4	LIG	113	21.608	10.605	-17.751	1.00	0.00
ATOM	1827	C7	LIG	113	19.876	11.508	-20.565	1.00	0.00
ATOM	1828	H5	LIG	113	20.003	12.051	-21.496	1.00	0.00
ATOM	1829	C8	LIG	113	13.710	12.041	-18.725	1.00	0.00
ATOM	1830	H6	LIG	113	13.073	11.845	-17.878	1.00	0.00
ATOM	1831	C9	LIG	113	13.424	12.785	-19.833	1.00	0.00
ATOM	1832	C10	LIG	113	12.233	13.557	-20.275	1.00	0.00
ATOM	1833	H7	LIG	113	11.440	13.495	-19.526	1.00	0.00
ATOM	1834	H8	LIG	113	12.486	14.611	-20.431	1.00	0.00
ATOM	1835	H9	LIG	113	11.849	13.167	-21.224	1.00	0.00
TER									
ATOM	1836	S1	LIG	114	-22.208	16.359	6.968	1.00	0.00

ATOM	1837	O1	LIG	114	-22.398	16.087	11.552	1.00	0.00
ATOM	1838	O2	LIG	114	-21.610	15.641	5.624	1.00	0.00
ATOM	1839	O3	LIG	114	-23.800	16.286	7.311	1.00	0.00
ATOM	1840	N1	LIG	114	-21.249	15.443	8.269	1.00	0.00
ATOM	1841	H1	LIG	114	-20.889	14.598	7.834	1.00	0.00
ATOM	1842	N2	LIG	114	-22.130	16.515	10.182	1.00	0.00
ATOM	1843	N3	LIG	114	-20.304	22.047	7.073	1.00	0.00
ATOM	1844	H10	LIG	114	-19.661	22.388	6.380	1.00	0.00
ATOM	1845	H11	LIG	114	-20.624	22.694	7.774	1.00	0.00
ATOM	1846	C1	LIG	114	-21.611	18.107	7.041	1.00	0.00
ATOM	1847	C2	LIG	114	-20.716	18.521	6.055	1.00	0.00
ATOM	1848	H2	LIG	114	-20.386	17.823	5.294	1.00	0.00
ATOM	1849	C3	LIG	114	-22.087	18.958	8.037	1.00	0.00
ATOM	1850	H3	LIG	114	-22.760	18.591	8.803	1.00	0.00
ATOM	1851	C4	LIG	114	-21.636	15.420	9.596	1.00	0.00
ATOM	1852	C5	LIG	114	-20.736	20.741	7.062	1.00	0.00
ATOM	1853	C6	LIG	114	-20.280	19.842	6.067	1.00	0.00
ATOM	1854	H4	LIG	114	-19.588	20.188	5.306	1.00	0.00
ATOM	1855	C7	LIG	114	-21.643	20.276	8.045	1.00	0.00
ATOM	1856	H5	LIG	114	-21.994	20.955	8.815	1.00	0.00
ATOM	1857	C8	LIG	114	-21.543	14.303	10.496	1.00	0.00
ATOM	1858	H6	LIG	114	-21.182	13.314	10.266	1.00	0.00

ATOM	1859	C9	LIG	114	-22.016	14.765	11.690	1.00	0.00
ATOM	1860	C10	LIG	114	-22.206	14.149	13.029	1.00	0.00
ATOM	1861	H7	LIG	114	-21.881	13.106	13.019	1.00	0.00
ATOM	1862	H8	LIG	114	-21.631	14.687	13.792	1.00	0.00
ATOM	1863	H9	LIG	114	-23.259	14.184	13.327	1.00	0.00
TER									
ATOM	1864	S1	LIG	115	-23.262	-3.831	16.484	1.00	0.00
ATOM	1865	O1	LIG	115	-22.882	0.422	18.184	1.00	0.00
ATOM	1866	O2	LIG	115	-23.225	-5.420	16.876	1.00	0.00
ATOM	1867	O3	LIG	115	-24.666	-3.104	16.092	1.00	0.00
ATOM	1868	N1	LIG	115	-22.602	-3.101	18.061	1.00	0.00
ATOM	1869	H1	LIG	115	-22.700	-3.812	18.782	1.00	0.00
ATOM	1870	N2	LIG	115	-22.660	-0.820	17.449	1.00	0.00
ATOM	1871	N3	LIG	115	-19.138	-2.838	12.240	1.00	0.00
ATOM	1872	H10	LIG	115	-18.519	-3.572	11.942	1.00	0.00
ATOM	1873	H11	LIG	115	-19.050	-1.940	11.797	1.00	0.00
ATOM	1874	C1	LIG	115	-21.977	-3.491	15.198	1.00	0.00
ATOM	1875	C2	LIG	115	-21.145	-4.547	14.828	1.00	0.00
ATOM	1876	H2	LIG	115	-21.255	-5.516	15.301	1.00	0.00
ATOM	1877	C3	LIG	115	-21.899	-2.226	14.619	1.00	0.00
ATOM	1878	H3	LIG	115	-22.546	-1.423	14.953	1.00	0.00
ATOM	1879	C4	LIG	115	-22.766	-1.768	18.385	1.00	0.00

ATOM	1880	C5	LIG	115	-20.079	-3.055	13.222	1.00	0.00
ATOM	1881	C6	LIG	115	-20.195	-4.326	13.836	1.00	0.00
ATOM	1882	H4	LIG	115	-19.540	-5.134	13.528	1.00	0.00
ATOM	1883	C7	LIG	115	-20.944	-2.012	13.631	1.00	0.00
ATOM	1884	H5	LIG	115	-20.859	-1.033	13.170	1.00	0.00
ATOM	1885	C8	LIG	115	-23.024	-1.230	19.693	1.00	0.00
ATOM	1886	H6	LIG	115	-23.152	-1.785	20.608	1.00	0.00
ATOM	1887	C9	LIG	115	-23.079	0.122	19.520	1.00	0.00
ATOM	1888	C10	LIG	115	-23.315	1.269	20.436	1.00	0.00
ATOM	1889	H7	LIG	115	-23.467	0.914	21.458	1.00	0.00
ATOM	1890	H8	LIG	115	-22.463	1.957	20.428	1.00	0.00
ATOM	1891	H9	LIG	115	-24.199	1.837	20.128	1.00	0.00
TER									
ATOM	1892	S1	LIG	116	-15.105	-23.794	-18.853	1.00	0.00
ATOM	1893	O1	LIG	116	-12.427	-22.127	-15.510	1.00	0.00
ATOM	1894	O2	LIG	116	-15.531	-23.609	-20.423	1.00	0.00
ATOM	1895	O3	LIG	116	-14.195	-25.062	-18.382	1.00	0.00
ATOM	1896	N1	LIG	116	-14.155	-22.217	-18.595	1.00	0.00
ATOM	1897	H1	LIG	116	-13.911	-21.863	-19.516	1.00	0.00
ATOM	1898	N2	LIG	116	-13.573	-22.520	-16.325	1.00	0.00
ATOM	1899	N3	LIG	116	-20.063	-23.417	-15.496	1.00	0.00
ATOM	1900	H10	LIG	116	-20.951	-23.193	-15.911	1.00	0.00

ATOM	1901	H11	LIG	116	-20.038	-23.585	-14.505	1.00	0.00
ATOM	1902	C1	LIG	116	-16.612	-23.651	-17.792	1.00	0.00
ATOM	1903	C2	LIG	116	-17.814	-23.335	-18.425	1.00	0.00
ATOM	1904	H2	LIG	116	-17.836	-23.167	-19.495	1.00	0.00
ATOM	1905	C3	LIG	116	-16.518	-23.894	-16.423	1.00	0.00
ATOM	1906	H3	LIG	116	-15.561	-24.110	-15.964	1.00	0.00
ATOM	1907	C4	LIG	116	-13.280	-22.044	-17.539	1.00	0.00
ATOM	1908	C5	LIG	116	-18.919	-23.493	-16.258	1.00	0.00
ATOM	1909	C6	LIG	116	-18.969	-23.257	-17.654	1.00	0.00
ATOM	1910	H4	LIG	116	-19.917	-23.017	-18.125	1.00	0.00
ATOM	1911	C7	LIG	116	-17.677	-23.810	-15.658	1.00	0.00
ATOM	1912	H5	LIG	116	-17.627	-23.988	-14.589	1.00	0.00
ATOM	1913	C8	LIG	116	-12.024	-21.347	-17.573	1.00	0.00
ATOM	1914	H6	LIG	116	-11.567	-20.878	-18.429	1.00	0.00
ATOM	1915	C9	LIG	116	-11.540	-21.418	-16.300	1.00	0.00
ATOM	1916	C10	LIG	116	-10.304	-20.922	-15.639	1.00	0.00
ATOM	1917	H7	LIG	116	-9.677	-20.387	-16.356	1.00	0.00
ATOM	1918	H8	LIG	116	-10.548	-20.243	-14.813	1.00	0.00
ATOM	1919	H9	LIG	116	-9.726	-21.753	-15.221	1.00	0.00
TER									
ATOM	1920	S1	LIG	117	18.930	-1.436	-6.986	1.00	0.00
ATOM	1921	O1	LIG	117	23.213	0.123	-6.397	1.00	0.00



ATOM	1922	O2	LIG	117	17.356	-1.142	-6.642	1.00	0.00
ATOM	1923	O3	LIG	117	19.503	-1.226	-8.497	1.00	0.00
ATOM	1924	N1	LIG	117	19.736	-0.216	-5.839	1.00	0.00
ATOM	1925	H1	LIG	117	19.026	0.462	-5.578	1.00	0.00
ATOM	1926	N2	LIG	117	21.994	-0.681	-6.358	1.00	0.00
ATOM	1927	N3	LIG	117	20.312	-6.913	-4.967	1.00	0.00
ATOM	1928	H10	LIG	117	19.644	-7.453	-4.444	1.00	0.00
ATOM	1929	H11	LIG	117	21.211	-7.326	-5.148	1.00	0.00
ATOM	1930	C1	LIG	117	19.391	-3.108	-6.346	1.00	0.00
ATOM	1931	C2	LIG	117	18.425	-3.808	-5.625	1.00	0.00
ATOM	1932	H2	LIG	117	17.453	-3.361	-5.445	1.00	0.00
ATOM	1933	C3	LIG	117	20.653	-3.629	-6.626	1.00	0.00
ATOM	1934	H3	LIG	117	21.386	-3.044	-7.167	1.00	0.00
ATOM	1935	C4	LIG	117	21.048	0.190	-5.995	1.00	0.00
ATOM	1936	C5	LIG	117	20.006	-5.651	-5.423	1.00	0.00
ATOM	1937	C6	LIG	117	18.735	-5.083	-5.164	1.00	0.00
ATOM	1938	H4	LIG	117	17.997	-5.648	-4.604	1.00	0.00
ATOM	1939	C7	LIG	117	20.957	-4.904	-6.159	1.00	0.00
ATOM	1940	H5	LIG	117	21.935	-5.328	-6.358	1.00	0.00
ATOM	1941	C8	LIG	117	21.566	1.513	-5.774	1.00	0.00
ATOM	1942	H6	LIG	117	21.009	2.387	-5.480	1.00	0.00
ATOM	1943	C9	LIG	117	22.904	1.420	-6.027	1.00	0.00

ATOM	1944	C10	LIG	117	24.027	2.393	-5.998	1.00	0.00
ATOM	1945	H7	LIG	117	23.667	3.382	-5.703	1.00	0.00
ATOM	1946	H8	LIG	117	24.801	2.077	-5.290	1.00	0.00
ATOM	1947	H9	LIG	117	24.498	2.473	-6.984	1.00	0.00
TER									
ATOM	1948	S1	LIG	118	-4.296	14.715	15.888	1.00	0.00
ATOM	1949	O1	LIG	118	-2.133	18.713	15.209	1.00	0.00
ATOM	1950	O2	LIG	118	-4.174	13.094	15.686	1.00	0.00
ATOM	1951	O3	LIG	118	-4.182	15.378	17.371	1.00	0.00
ATOM	1952	N1	LIG	118	-2.861	15.271	14.845	1.00	0.00
ATOM	1953	H1	LIG	118	-2.257	14.464	14.715	1.00	0.00
ATOM	1954	N2	LIG	118	-3.081	17.603	15.153	1.00	0.00
ATOM	1955	N3	LIG	118	-9.286	16.589	13.135	1.00	0.00
ATOM	1956	H10	LIG	118	-9.848	15.952	12.597	1.00	0.00
ATOM	1957	H11	LIG	118	-9.596	17.543	13.206	1.00	0.00
ATOM	1958	C1	LIG	118	-5.811	15.323	15.022	1.00	0.00
ATOM	1959	C2	LIG	118	-6.547	14.395	14.286	1.00	0.00
ATOM	1960	H2	LIG	118	-6.214	13.365	14.226	1.00	0.00
ATOM	1961	C3	LIG	118	-6.191	16.658	15.153	1.00	0.00
ATOM	1962	H3	LIG	118	-5.578	17.356	15.711	1.00	0.00
ATOM	1963	C4	LIG	118	-2.306	16.531	14.962	1.00	0.00
ATOM	1964	C5	LIG	118	-8.134	16.168	13.760	1.00	0.00

ATOM	1965	C6	LIG	118	-7.711	14.820	13.656	1.00	0.00
ATOM	1966	H4	LIG	118	-8.302	14.114	13.082	1.00	0.00
ATOM	1967	C7	LIG	118	-7.355	17.077	14.516	1.00	0.00
ATOM	1968	H5	LIG	118	-7.667	18.113	14.597	1.00	0.00
ATOM	1969	C8	LIG	118	-0.911	16.864	14.868	1.00	0.00
ATOM	1970	H6	LIG	118	-0.090	16.182	14.719	1.00	0.00
ATOM	1971	C9	LIG	118	-0.856	18.219	15.019	1.00	0.00
ATOM	1972	C10	LIG	118	0.254	19.209	15.033	1.00	0.00
ATOM	1973	H7	LIG	118	1.213	18.708	14.884	1.00	0.00
ATOM	1974	H8	LIG	118	0.122	19.956	14.242	1.00	0.00
ATOM	1975	H9	LIG	118	0.284	19.744	15.989	1.00	0.00
TER									
ATOM	1976	S1	LIG	119	12.456	21.961	2.985	1.00	0.00
ATOM	1977	O1	LIG	119	11.838	23.395	7.308	1.00	0.00
ATOM	1978	O2	LIG	119	11.738	21.188	1.733	1.00	0.00
ATOM	1979	O3	LIG	119	12.721	23.568	2.929	1.00	0.00
ATOM	1980	N1	LIG	119	11.234	21.579	4.333	1.00	0.00
ATOM	1981	H1	LIG	119	10.369	21.296	3.880	1.00	0.00
ATOM	1982	N2	LIG	119	12.310	22.698	6.115	1.00	0.00
ATOM	1983	N3	LIG	119	17.523	19.051	4.344	1.00	0.00
ATOM	1984	H10	LIG	119	17.765	18.194	3.878	1.00	0.00
ATOM	1985	H11	LIG	119	18.162	19.407	5.034	1.00	0.00

ATOM	1986	C1	LIG	119	14.006	21.066	3.445	1.00	0.00
ATOM	1987	C2	LIG	119	14.287	19.881	2.767	1.00	0.00
ATOM	1988	H2	LIG	119	13.601	19.510	2.015	1.00	0.00
ATOM	1989	C3	LIG	119	14.853	21.606	4.411	1.00	0.00
ATOM	1990	H3	LIG	119	14.587	22.515	4.936	1.00	0.00
ATOM	1991	C4	LIG	119	11.186	22.297	5.513	1.00	0.00
ATOM	1992	C5	LIG	119	16.356	19.718	4.046	1.00	0.00
ATOM	1993	C6	LIG	119	15.467	19.207	3.069	1.00	0.00
ATOM	1994	H4	LIG	119	15.709	18.285	2.551	1.00	0.00
ATOM	1995	C7	LIG	119	16.029	20.925	4.711	1.00	0.00
ATOM	1996	H5	LIG	119	16.701	21.321	5.464	1.00	0.00
ATOM	1997	C8	LIG	119	10.004	22.668	6.242	1.00	0.00
ATOM	1998	H6	LIG	119	8.982	22.466	5.966	1.00	0.00
ATOM	1999	C9	LIG	119	10.456	23.335	7.343	1.00	0.00
ATOM	2000	C10	LIG	119	9.787	23.988	8.499	1.00	0.00
ATOM	2001	H7	LIG	119	8.702	23.888	8.417	1.00	0.00
ATOM	2002	H8	LIG	119	10.110	23.537	9.444	1.00	0.00
ATOM	2003	H9	LIG	119	10.037	25.054	8.541	1.00	0.00
TER									
END									

**Table M:** The number of atoms present in the system of HA-Dic

ATOM	1	N	PRO	1	5.137	-6.696	13.483	1.00	0.00
ATOM	2	H2	PRO	1	5.624	-5.814	13.557	1.00	0.00
ATOM	3	H3	PRO	1	5.589	-7.548	13.781	1.00	0.00
ATOM	4	CD	PRO	1	3.871	-6.651	14.277	1.00	0.00
ATOM	5	HD2	PRO	1	3.805	-5.635	14.668	1.00	0.00
ATOM	6	HD3	PRO	1	4.016	-7.348	15.101	1.00	0.00
ATOM	7	CG	PRO	1	2.667	-7.024	13.399	1.00	0.00
ATOM	8	HG2	PRO	1	1.965	-6.190	13.374	1.00	0.00
ATOM	9	HG3	PRO	1	2.173	-7.901	13.816	1.00	0.00
ATOM	10	CB	PRO	1	3.227	-7.322	12.012	1.00	0.00
ATOM	11	HB2	PRO	1	2.676	-6.854	11.196	1.00	0.00
ATOM	12	HB3	PRO	1	3.247	-8.401	11.864	1.00	0.00
ATOM	13	CA	PRO	1	4.666	-6.770	12.056	1.00	0.00
ATOM	14	HA	PRO	1	5.259	-7.530	11.548	1.00	0.00
ATOM	15	C	PRO	1	4.806	-5.429	11.311	1.00	0.00
ATOM	16	O	PRO	1	3.834	-4.824	10.860	1.00	0.00
ATOM	17	N	TYR	2	6.050	-4.994	11.172	1.00	0.00
ATOM	18	H	TYR	2	6.812	-5.544	11.541	1.00	0.00
ATOM	19	CA	TYR	2	6.364	-3.742	10.506	1.00	0.00
ATOM	20	HA	TYR	2	5.488	-3.097	10.443	1.00	0.00
ATOM	21	CB	TYR	2	7.435	-3.033	11.338	1.00	0.00

ATOM	22	HB2 TYR	2	7.768	-2.139	10.809	1.00	0.00
ATOM	23	HB3 TYR	2	6.941	-2.743	12.265	1.00	0.00
ATOM	24	CG TYR	2	8.638	-3.911	11.657	1.00	0.00
ATOM	25	CD1 TYR	2	8.625	-4.737	12.801	1.00	0.00
ATOM	26	HD1 TYR	2	7.759	-4.734	13.462	1.00	0.00
ATOM	27	CE1 TYR	2	9.728	-5.564	13.089	1.00	0.00
ATOM	28	HE1 TYR	2	9.744	-6.154	14.005	1.00	0.00
ATOM	29	CZ TYR	2	10.851	-5.552	12.239	1.00	0.00
ATOM	30	OH TYR	2	11.908	-6.372	12.473	1.00	0.00
ATOM	31	HH TYR	2	11.789	-6.924	13.248	1.00	0.00
ATOM	32	CE2 TYR	2	10.843	-4.756	11.084	1.00	0.00
ATOM	33	HE2 TYR	2	11.704	-4.777	10.415	1.00	0.00
ATOM	34	CD2 TYR	2	9.741	-3.936	10.785	1.00	0.00
ATOM	35	HD2 TYR	2	9.745	-3.325	9.882	1.00	0.00
ATOM	36	C TYR	2	6.883	-3.984	9.097	1.00	0.00
ATOM	37	O TYR	2	6.674	-3.135	8.248	1.00	0.00
ATOM	38	N GLY	3	7.470	-5.167	8.862	1.00	0.00
ATOM	39	H GLY	3	7.510	-5.840	9.613	1.00	0.00
ATOM	40	CA GLY	3	8.048	-5.527	7.588	1.00	0.00
ATOM	41	HA2 GLY	3	8.387	-6.562	7.629	1.00	0.00
ATOM	42	HA3 GLY	3	7.291	-5.423	6.810	1.00	0.00
ATOM	43	C GLY	3	9.234	-4.630	7.249	1.00	0.00

ATOM	44	O	GLY	3	9.183	-3.405	7.253	1.00	0.00
ATOM	45	N	ARG	4	10.374	-5.258	6.999	1.00	0.00
ATOM	46	H	ARG	4	10.446	-6.253	7.151	1.00	0.00
ATOM	47	CA	ARG	4	11.573	-4.532	6.592	1.00	0.00
ATOM	48	HA	ARG	4	11.402	-3.456	6.646	1.00	0.00
ATOM	49	CB	ARG	4	12.729	-4.892	7.531	1.00	0.00
ATOM	50	HB2	ARG	4	12.340	-4.993	8.544	1.00	0.00
ATOM	51	HB3	ARG	4	13.160	-5.840	7.210	1.00	0.00
ATOM	52	CG	ARG	4	13.813	-3.804	7.506	1.00	0.00
ATOM	53	HG2	ARG	4	13.653	-3.166	6.636	1.00	0.00
ATOM	54	HG3	ARG	4	13.733	-3.206	8.413	1.00	0.00
ATOM	55	CD	ARG	4	15.207	-4.430	7.429	1.00	0.00
ATOM	56	HD2	ARG	4	15.364	-5.074	8.293	1.00	0.00
ATOM	57	HD3	ARG	4	15.290	-5.020	6.516	1.00	0.00
ATOM	58	NE	ARG	4	16.251	-3.395	7.417	1.00	0.00
ATOM	59	HE	ARG	4	15.934	-2.447	7.271	1.00	0.00
ATOM	60	CZ	ARG	4	17.544	-3.610	7.565	1.00	0.00
ATOM	61	NH1	ARG	4	18.000	-4.821	7.757	1.00	0.00
ATOM	62	HH11	ARG	4	17.358	-5.599	7.792	1.00	0.00
ATOM	63	HH12	ARG	4	18.993	-4.971	7.868	1.00	0.00
ATOM	64	NH2	ARG	4	18.392	-2.618	7.537	1.00	0.00
ATOM	65	HH21	ARG	4	18.057	-1.675	7.400	1.00	0.00

ATOM	66	HH22	ARG	4	19.379	-2.798	7.651	1.00	0.00
ATOM	67	C	ARG	4	11.929	-4.797	5.131	1.00	0.00
ATOM	68	O	ARG	4	13.013	-4.428	4.700	1.00	0.00
ATOM	69	N	GLY	5	11.088	-5.573	4.444	1.00	0.00
ATOM	70	H	GLY	5	10.248	-5.911	4.891	1.00	0.00
ATOM	71	CA	GLY	5	11.333	-5.951	3.074	1.00	0.00
ATOM	72	HA2	GLY	5	10.507	-6.564	2.713	1.00	0.00
ATOM	73	HA3	GLY	5	11.414	-5.054	2.459	1.00	0.00
ATOM	74	C	GLY	5	12.619	-6.742	2.963	1.00	0.00
ATOM	75	O	GLY	5	13.363	-6.558	2.015	1.00	0.00
ATOM	76	N	ARG	6	12.905	-7.585	3.963	1.00	0.00
ATOM	77	H	ARG	6	12.293	-7.599	4.766	1.00	0.00
ATOM	78	CA	ARG	6	14.097	-8.425	3.986	1.00	0.00
ATOM	79	HA	ARG	6	14.958	-7.849	3.647	1.00	0.00
ATOM	80	CB	ARG	6	14.375	-8.933	5.403	1.00	0.00
ATOM	81	HB2	ARG	6	15.139	-9.708	5.350	1.00	0.00
ATOM	82	HB3	ARG	6	14.743	-8.101	6.004	1.00	0.00
ATOM	83	CG	ARG	6	13.101	-9.511	6.050	1.00	0.00
ATOM	84	HG2	ARG	6	12.651	-8.744	6.681	1.00	0.00
ATOM	85	HG3	ARG	6	12.402	-9.786	5.260	1.00	0.00
ATOM	86	CD	ARG	6	13.425	-10.742	6.896	1.00	0.00
ATOM	87	HD2	ARG	6	14.503	-10.806	7.045	1.00	0.00



ATOM	88	HD3 ARG	6	12.929	-10.658	7.863	1.00	0.00
ATOM	89	NE ARG	6	12.966	-11.975	6.236	1.00	0.00
ATOM	90	HE ARG	6	12.714	-11.890	5.261	1.00	0.00
ATOM	91	CZ ARG	6	12.884	-13.162	6.807	1.00	0.00
ATOM	92	NH1 ARG	6	13.199	-13.317	8.069	1.00	0.00
ATOM	93	HH11 ARG	6	13.507	-12.522	8.610	1.00	0.00
ATOM	94	HH12 ARG	6	13.132	-14.230	8.494	1.00	0.00
ATOM	95	NH2 ARG	6	12.465	-14.194	6.129	1.00	0.00
ATOM	96	HH21 ARG	6	12.201	-14.084	5.160	1.00	0.00
ATOM	97	HH22 ARG	6	12.406	-15.097	6.575	1.00	0.00
ATOM	98	C ARG	6	13.996	-9.592	3.017	1.00	0.00
ATOM	99	O ARG	6	14.140	-10.734	3.451	1.00	0.00
ATOM	100	N THR	7	13.658	-9.324	1.772	1.00	0.00
ATOM	101	H THR	7	13.525	-8.355	1.518	1.00	0.00
ATOM	102	CA THR	7	13.403	-10.338	0.770	1.00	0.00
ATOM	103	HA THR	7	14.067	-11.181	0.962	1.00	0.00
ATOM	104	CB THR	7	11.944	-10.820	0.897	1.00	0.00
ATOM	105	HB THR	7	11.677	-11.361	-0.011	1.00	0.00
ATOM	106	CG2 THR	7	11.763	-11.740	2.113	1.00	0.00
ATOM	107	HG21 THR	7	12.029	-11.199	3.021	1.00	0.00
ATOM	108	HG22 THR	7	10.724	-12.062	2.173	1.00	0.00
ATOM	109	HG23 THR	7	12.408	-12.612	2.008	1.00	0.00

ATOM	110	OG1 THR	7	11.071	-9.721	1.112	1.00	0.00
ATOM	111	HG1 THR	7	10.169	-10.039	1.188	1.00	0.00
ATOM	112	C THR	7	13.702	-9.782	-0.607	1.00	0.00
ATOM	113	O THR	7	14.168	-8.654	-0.726	1.00	0.00
ATOM	114	N GLU	8	13.459	-10.586	-1.632	1.00	0.00
ATOM	115	H GLU	8	13.163	-11.535	-1.459	1.00	0.00
ATOM	116	CA GLU	8	13.681	-10.173	-3.011	1.00	0.00
ATOM	117	HA GLU	8	14.267	-9.254	-3.041	1.00	0.00
ATOM	118	CB GLU	8	14.452	-11.270	-3.756	1.00	0.00
ATOM	119	HB2 GLU	8	13.997	-12.235	-3.534	1.00	0.00
ATOM	120	HB3 GLU	8	14.392	-11.079	-4.828	1.00	0.00
ATOM	121	CG GLU	8	15.921	-11.286	-3.322	1.00	0.00
ATOM	122	HG2 GLU	8	16.049	-10.738	-2.389	1.00	0.00
ATOM	123	HG3 GLU	8	16.196	-12.330	-3.171	1.00	0.00
ATOM	124	CD GLU	8	16.818	-10.674	-4.399	1.00	0.00
ATOM	125	OE1 GLU	8	17.124	-11.405	-5.368	1.00	0.00
ATOM	126	OE2 GLU	8	17.150	-9.476	-4.263	1.00	0.00
ATOM	127	C GLU	8	12.359	-9.844	-3.703	1.00	0.00
ATOM	128	O GLU	8	11.280	-9.842	-3.091	1.00	0.00
ATOM	129	N SER	9	12.449	-9.526	-4.990	1.00	0.00
ATOM	130	H SER	9	13.364	-9.411	-5.402	1.00	0.00
ATOM	131	CA SER	9	11.286	-9.257	-5.814	1.00	0.00

ATOM	132	HA	SER	9	10.664	-8.506	-5.327	1.00	0.00
ATOM	133	CB	SER	9	11.690	-8.734	-7.201	1.00	0.00
ATOM	134	HB2	SER	9	11.079	-9.245	-7.945	1.00	0.00
ATOM	135	HB3	SER	9	11.481	-7.664	-7.232	1.00	0.00
ATOM	136	OG	SER	9	13.057	-8.954	-7.484	1.00	0.00
ATOM	137	HG	SER	9	13.262	-8.612	-8.358	1.00	0.00
ATOM	138	C	SER	9	10.392	-10.495	-5.953	1.00	0.00
ATOM	139	O	SER	9	10.744	-11.614	-5.584	1.00	0.00
ATOM	140	N	GLY	10	9.198	-10.302	-6.510	1.00	0.00
ATOM	141	H	GLY	10	8.910	-9.372	-6.782	1.00	0.00
ATOM	142	CA	GLY	10	8.276	-11.408	-6.745	1.00	0.00
ATOM	143	HA2	GLY	10	8.409	-11.772	-7.764	1.00	0.00
ATOM	144	HA3	GLY	10	8.496	-12.210	-6.041	1.00	0.00
ATOM	145	C	GLY	10	6.848	-10.975	-6.563	1.00	0.00
ATOM	146	O	GLY	10	6.258	-10.409	-7.473	1.00	0.00
ATOM	147	N	CYX	11	6.343	-11.078	-5.333	1.00	0.00
ATOM	148	H	CYX	11	6.870	-11.544	-4.608	1.00	0.00
ATOM	149	CA	CYX	11	5.018	-10.605	-5.019	1.00	0.00
ATOM	150	HA	CYX	11	4.300	-11.014	-5.730	1.00	0.00
ATOM	151	CB	CYX	11	4.620	-11.042	-3.619	1.00	0.00
ATOM	152	HB2	CYX	11	5.238	-10.522	-2.887	1.00	0.00
ATOM	153	HB3	CYX	11	3.571	-10.800	-3.447	1.00	0.00

ATOM	154	SG	CYX	11	4.736	-12.800	-3.266	1.00	0.00
ATOM	155	C	CYX	11	4.918	-9.081	-5.164	1.00	0.00
ATOM	156	O	CYX	11	3.831	-8.520	-5.134	1.00	0.00
ATOM	157	N	TYR	12	6.061	-8.414	-5.255	1.00	0.00
ATOM	158	H	TYR	12	6.913	-8.951	-5.179	1.00	0.00
ATOM	159	CA	TYR	12	6.166	-6.996	-5.474	1.00	0.00
ATOM	160	HA	TYR	12	5.420	-6.441	-4.905	1.00	0.00
ATOM	161	CB	TYR	12	7.549	-6.591	-4.987	1.00	0.00
ATOM	162	HB2	TYR	12	7.626	-6.921	-3.951	1.00	0.00
ATOM	163	HB3	TYR	12	8.286	-7.119	-5.592	1.00	0.00
ATOM	164	CG	TYR	12	7.808	-5.109	-5.062	1.00	0.00
ATOM	165	CD1	TYR	12	6.986	-4.217	-4.354	1.00	0.00
ATOM	166	HD1	TYR	12	6.160	-4.603	-3.758	1.00	0.00
ATOM	167	CE1	TYR	12	7.224	-2.833	-4.412	1.00	0.00
ATOM	168	HE1	TYR	12	6.559	-2.142	-3.895	1.00	0.00
ATOM	169	CZ	TYR	12	8.274	-2.337	-5.204	1.00	0.00
ATOM	170	OH	TYR	12	8.539	-1.003	-5.220	1.00	0.00
ATOM	171	HH	TYR	12	7.950	-0.496	-4.657	1.00	0.00
ATOM	172	CE2	TYR	12	9.100	-3.232	-5.917	1.00	0.00
ATOM	173	HE2	TYR	12	9.925	-2.849	-6.519	1.00	0.00
ATOM	174	CD2	TYR	12	8.860	-4.617	-5.852	1.00	0.00
ATOM	175	HD2	TYR	12	9.490	-5.306	-6.415	1.00	0.00

ATOM	176	C	TYR	12	6.033	-6.630	-6.947	1.00	0.00
ATOM	177	O	TYR	12	5.370	-5.668	-7.285	1.00	0.00
ATOM	178	N	GLN	13	6.648	-7.420	-7.820	1.00	0.00
ATOM	179	H	GLN	13	7.192	-8.210	-7.505	1.00	0.00
ATOM	180	CA	GLN	13	6.577	-7.159	-9.242	1.00	0.00
ATOM	181	HA	GLN	13	6.947	-6.157	-9.463	1.00	0.00
ATOM	182	CB	GLN	13	7.442	-8.174	-9.988	1.00	0.00
ATOM	183	HB2	GLN	13	8.492	-7.963	-9.785	1.00	0.00
ATOM	184	HB3	GLN	13	7.198	-9.176	-9.636	1.00	0.00
ATOM	185	CG	GLN	13	7.187	-8.087	-11.498	1.00	0.00
ATOM	186	HG2	GLN	13	6.151	-8.339	-11.724	1.00	0.00
ATOM	187	HG3	GLN	13	7.383	-7.057	-11.797	1.00	0.00
ATOM	188	CD	GLN	13	8.093	-9.003	-12.296	1.00	0.00
ATOM	189	OE1	GLN	13	9.064	-9.563	-11.808	1.00	0.00
ATOM	190	NE2	GLN	13	7.771	-9.216	-13.551	1.00	0.00
ATOM	191	HE21	GLN	13	8.346	-9.819	-14.122	1.00	0.00
ATOM	192	HE22	GLN	13	6.950	-8.775	-13.941	1.00	0.00
ATOM	193	C	GLN	13	5.130	-7.253	-9.709	1.00	0.00
ATOM	194	O	GLN	13	4.661	-6.463	-10.491	1.00	0.00
ATOM	195	N	GLN	14	4.403	-8.263	-9.249	1.00	0.00
ATOM	196	H	GLN	14	4.828	-8.978	-8.677	1.00	0.00
ATOM	197	CA	GLN	14	3.002	-8.408	-9.607	1.00	0.00

ATOM	198	HA	GLN	14	2.885	-8.320	-10.688	1.00	0.00
ATOM	199	CB	GLN	14	2.478	-9.777	-9.168	1.00	0.00
ATOM	200	HB2	GLN	14	1.389	-9.739	-9.147	1.00	0.00
ATOM	201	HB3	GLN	14	2.801	-10.520	-9.897	1.00	0.00
ATOM	202	CG	GLN	14	3.000	-10.159	-7.788	1.00	0.00
ATOM	203	HG2	GLN	14	3.923	-10.718	-7.941	1.00	0.00
ATOM	204	HG3	GLN	14	3.217	-9.245	-7.235	1.00	0.00
ATOM	205	CD	GLN	14	2.062	-10.996	-6.979	1.00	0.00
ATOM	206	OE1	GLN	14	1.305	-11.753	-7.532	1.00	0.00
ATOM	207	NE2	GLN	14	2.096	-10.847	-5.662	1.00	0.00
ATOM	208	HE21	GLN	14	1.479	-11.393	-5.079	1.00	0.00
ATOM	209	HE22	GLN	14	2.739	-10.187	-5.248	1.00	0.00
ATOM	210	C	GLN	14	2.147	-7.298	-9.006	1.00	0.00
ATOM	211	O	GLN	14	1.128	-6.941	-9.566	1.00	0.00
ATOM	212	N	MET	15	2.541	-6.790	-7.844	1.00	0.00
ATOM	213	H	MET	15	3.382	-7.167	-7.432	1.00	0.00
ATOM	214	CA	MET	15	1.863	-5.725	-7.157	1.00	0.00
ATOM	215	HA	MET	15	0.890	-6.075	-6.815	1.00	0.00
ATOM	216	CB	MET	15	2.659	-5.255	-5.956	1.00	0.00
ATOM	217	HB2	MET	15	3.588	-5.823	-5.911	1.00	0.00
ATOM	218	HB3	MET	15	2.888	-4.196	-6.084	1.00	0.00
ATOM	219	CG	MET	15	1.890	-5.451	-4.682	1.00	0.00

ATOM	220	HG2 MET	15	0.881	-5.056	-4.799	1.00	0.00
ATOM	221	HG3 MET	15	1.839	-6.513	-4.445	1.00	0.00
ATOM	222	SD MET	15	2.710	-4.586	-3.342	1.00	0.00
ATOM	223	CE MET	15	3.549	-5.964	-2.609	1.00	0.00
ATOM	224	HE1 MET	15	4.223	-6.410	-3.340	1.00	0.00
ATOM	225	HE2 MET	15	4.123	-5.624	-1.747	1.00	0.00
ATOM	226	HE3 MET	15	2.818	-6.706	-2.289	1.00	0.00
ATOM	227	C MET	15	1.689	-4.536	-8.057	1.00	0.00
ATOM	228	O MET	15	0.587	-4.039	-8.109	1.00	0.00
ATOM	229	N GLU	16	2.741	-4.062	-8.716	1.00	0.00
ATOM	230	H GLU	16	3.652	-4.464	-8.546	1.00	0.00
ATOM	231	CA GLU	16	2.643	-2.936	-9.641	1.00	0.00
ATOM	232	HA GLU	16	2.388	-2.024	-9.102	1.00	0.00
ATOM	233	CB GLU	16	3.995	-2.730	-10.341	1.00	0.00
ATOM	234	HB2 GLU	16	4.096	-1.672	-10.587	1.00	0.00
ATOM	235	HB3 GLU	16	4.787	-3.019	-9.650	1.00	0.00
ATOM	236	CG GLU	16	4.106	-3.566	-11.625	1.00	0.00
ATOM	237	HG2 GLU	16	3.732	-4.550	-11.345	1.00	0.00
ATOM	238	HG3 GLU	16	3.487	-3.157	-12.424	1.00	0.00
ATOM	239	CD GLU	16	5.548	-3.689	-12.111	1.00	0.00
ATOM	240	OE1 GLU	16	6.391	-4.256	-11.374	1.00	0.00
ATOM	241	OE2 GLU	16	5.848	-3.143	-13.193	1.00	0.00

ATOM	242	C	GLU	16	1.527	-3.154	-10.672	1.00	0.00
ATOM	243	O	GLU	16	0.844	-2.209	-11.057	1.00	0.00
ATOM	244	N	GLU	17	1.313	-4.419	-11.050	1.00	0.00
ATOM	245	H	GLU	17	1.893	-5.152	-10.669	1.00	0.00
ATOM	246	CA	GLU	17	0.300	-4.778	-12.010	1.00	0.00
ATOM	247	HA	GLU	17	0.297	-4.060	-12.831	1.00	0.00
ATOM	248	CB	GLU	17	0.577	-6.175	-12.581	1.00	0.00
ATOM	249	HB2	GLU	17	1.612	-6.451	-12.379	1.00	0.00
ATOM	250	HB3	GLU	17	-0.090	-6.898	-12.113	1.00	0.00
ATOM	251	CG	GLU	17	0.338	-6.166	-14.094	1.00	0.00
ATOM	252	HG2	GLU	17	-0.252	-7.042	-14.362	1.00	0.00
ATOM	253	HG3	GLU	17	-0.215	-5.263	-14.354	1.00	0.00
ATOM	254	CD	GLU	17	1.663	-6.190	-14.860	1.00	0.00
ATOM	255	OE1	GLU	17	2.551	-5.386	-14.525	1.00	0.00
ATOM	256	OE2	GLU	17	1.774	-7.026	-15.784	1.00	0.00
ATOM	257	C	GLU	17	-1.074	-4.748	-11.349	1.00	0.00
ATOM	258	O	GLU	17	-2.087	-4.509	-12.006	1.00	0.00
ATOM	259	N	ALA	18	-1.134	-5.009	-10.045	1.00	0.00
ATOM	260	H	ALA	18	-0.292	-5.323	-9.584	1.00	0.00
ATOM	261	CA	ALA	18	-2.346	-4.947	-9.280	1.00	0.00
ATOM	262	HA	ALA	18	-3.190	-4.594	-9.873	1.00	0.00
ATOM	263	CB	ALA	18	-2.648	-6.359	-8.793	1.00	0.00



ATOM	264	HB1	ALA	18	-1.815	-6.721	-8.191	1.00	0.00
ATOM	265	HB2	ALA	18	-3.556	-6.349	-8.190	1.00	0.00
ATOM	266	HB3	ALA	18	-2.789	-7.017	-9.651	1.00	0.00
ATOM	267	C	ALA	18	-2.177	-3.936	-8.171	1.00	0.00
ATOM	268	O	ALA	18	-2.083	-4.336	-7.024	1.00	0.00
ATOM	269	N	GLU	19	-2.058	-2.647	-8.464	1.00	0.00
ATOM	270	H	GLU	19	-2.003	-2.391	-9.440	1.00	0.00
ATOM	271	CA	GLU	19	-1.887	-1.602	-7.467	1.00	0.00
ATOM	272	HA	GLU	19	-1.092	-1.874	-6.774	1.00	0.00
ATOM	273	CB	GLU	19	-1.511	-0.283	-8.148	1.00	0.00
ATOM	274	HB2	GLU	19	-0.464	-0.332	-8.449	1.00	0.00
ATOM	275	HB3	GLU	19	-2.136	-0.157	-9.032	1.00	0.00
ATOM	276	CG	GLU	19	-1.714	0.899	-7.211	1.00	0.00
ATOM	277	HG2	GLU	19	-1.904	0.625	-6.174	1.00	0.00
ATOM	278	HG3	GLU	19	-0.778	1.455	-7.275	1.00	0.00
ATOM	279	CD	GLU	19	-2.886	1.790	-7.737	1.00	0.00
ATOM	280	OE1	GLU	19	-3.868	1.401	-8.414	1.00	0.00
ATOM	281	OE2	GLU	19	-2.909	2.968	-7.363	1.00	0.00
ATOM	282	C	GLU	19	-3.186	-1.541	-6.614	1.00	0.00
ATOM	283	O	GLU	19	-4.028	-0.650	-6.597	1.00	0.00
ATOM	284	N	MET	20	-3.410	-2.497	-5.758	1.00	0.00
ATOM	285	H	MET	20	-2.741	-3.248	-5.665	1.00	0.00

ATOM	286	CA	MET	20	-4.602	-2.538	-4.948	1.00	0.00
ATOM	287	HA	MET	20	-5.382	-1.907	-5.376	1.00	0.00
ATOM	288	CB	MET	20	-5.103	-3.962	-4.903	1.00	0.00
ATOM	289	HB2	MET	20	-6.173	-3.924	-4.699	1.00	0.00
ATOM	290	HB3	MET	20	-4.936	-4.397	-5.889	1.00	0.00
ATOM	291	CG	MET	20	-4.423	-4.807	-3.860	1.00	0.00
ATOM	292	HG2	MET	20	-3.437	-4.371	-3.696	1.00	0.00
ATOM	293	HG3	MET	20	-5.015	-4.719	-2.949	1.00	0.00
ATOM	294	SD	MET	20	-4.242	-6.514	-4.272	1.00	0.00
ATOM	295	CE	MET	20	-2.973	-6.432	-5.493	1.00	0.00
ATOM	296	HE1	MET	20	-2.076	-5.992	-5.057	1.00	0.00
ATOM	297	HE2	MET	20	-2.747	-7.436	-5.852	1.00	0.00
ATOM	298	HE3	MET	20	-3.310	-5.816	-6.328	1.00	0.00
ATOM	299	C	MET	20	-4.255	-2.030	-3.577	1.00	0.00
ATOM	300	O	MET	20	-5.149	-1.695	-2.801	1.00	0.00
ATOM	301	N	LEU	21	-2.955	-2.010	-3.260	1.00	0.00
ATOM	302	H	LEU	21	-2.283	-2.391	-3.911	1.00	0.00
ATOM	303	CA	LEU	21	-2.483	-1.569	-1.971	1.00	0.00
ATOM	304	HA	LEU	21	-3.234	-1.766	-1.207	1.00	0.00
ATOM	305	CB	LEU	21	-1.213	-2.321	-1.610	1.00	0.00
ATOM	306	HB2	LEU	21	-0.546	-1.965	-2.396	1.00	0.00
ATOM	307	HB3	LEU	21	-0.828	-2.010	-0.639	1.00	0.00

ATOM	308	CG	LEU	21	-1.293	-3.860	-1.662	1.00	0.00
ATOM	309	HG	LEU	21	-0.525	-4.248	-0.993	1.00	0.00
ATOM	310	CD1	LEU	21	-2.645	-4.414	-1.256	1.00	0.00
ATOM	311	HD11	LEU	21	-3.413	-4.026	-1.926	1.00	0.00
ATOM	312	HD12	LEU	21	-2.625	-5.502	-1.318	1.00	0.00
ATOM	313	HD13	LEU	21	-2.870	-4.112	-0.234	1.00	0.00
ATOM	314	CD2	LEU	21	-0.843	-4.349	-3.026	1.00	0.00
ATOM	315	HD21	LEU	21	0.185	-4.034	-3.205	1.00	0.00
ATOM	316	HD22	LEU	21	-0.900	-5.437	-3.060	1.00	0.00
ATOM	317	HD23	LEU	21	-1.490	-3.927	-3.796	1.00	0.00
ATOM	318	C	LEU	21	-2.319	-0.061	-1.975	1.00	0.00
ATOM	319	O	LEU	21	-1.747	0.507	-1.058	1.00	0.00
ATOM	320	N	ASN	22	-2.893	0.582	-2.990	1.00	0.00
ATOM	321	H	ASN	22	-3.390	0.056	-3.695	1.00	0.00
ATOM	322	CA	ASN	22	-2.864	2.014	-3.103	1.00	0.00
ATOM	323	HA	ASN	22	-2.073	2.422	-2.474	1.00	0.00
ATOM	324	CB	ASN	22	-2.598	2.418	-4.536	1.00	0.00
ATOM	325	HB2	ASN	22	-1.652	2.157	-5.010	1.00	0.00
ATOM	326	HB3	ASN	22	-3.402	1.839	-4.989	1.00	0.00
ATOM	327	CG	ASN	22	-2.871	3.901	-4.776	1.00	0.00
ATOM	328	OD1	ASN	22	-3.958	4.336	-5.140	1.00	0.00
ATOM	329	ND2	ASN	22	-1.963	4.714	-4.286	1.00	0.00

ATOM	330	HD21	ASN	22	-2.068	5.712	-4.402	1.00	0.00
ATOM	331	HD22	ASN	22	-1.164	4.338	-3.797	1.00	0.00
ATOM	332	C	ASN	22	-4.209	2.576	-2.709	1.00	0.00
ATOM	333	O	ASN	22	-4.263	3.593	-2.046	1.00	0.00
ATOM	334	N	HIE	23	-5.307	1.899	-3.057	1.00	0.00
ATOM	335	H	HIE	23	-5.207	1.045	-3.586	1.00	0.00
ATOM	336	CA	HIE	23	-6.643	2.361	-2.744	1.00	0.00
ATOM	337	HA	HIE	23	-6.749	3.415	-3.003	1.00	0.00
ATOM	338	CB	HIE	23	-7.659	1.558	-3.547	1.00	0.00
ATOM	339	HB2	HIE	23	-7.486	0.489	-3.429	1.00	0.00
ATOM	340	HB3	HIE	23	-8.666	1.803	-3.209	1.00	0.00
ATOM	341	CG	HIE	23	-7.622	1.839	-5.022	1.00	0.00
ATOM	342	ND1	HIE	23	-8.581	2.554	-5.713	1.00	0.00
ATOM	343	CE1	HIE	23	-8.212	2.588	-7.014	1.00	0.00
ATOM	344	HE1	HIE	23	-8.833	3.111	-7.741	1.00	0.00
ATOM	345	NE2	HIE	23	-7.048	1.909	-7.164	1.00	0.00
ATOM	346	HE2	HIE	23	-6.535	1.765	-8.023	1.00	0.00
ATOM	347	CD2	HIE	23	-6.666	1.435	-5.922	1.00	0.00
ATOM	348	HD2	HIE	23	-5.747	0.858	-5.818	1.00	0.00
ATOM	349	C	HIE	23	-6.885	2.218	-1.255	1.00	0.00
ATOM	350	O	HIE	23	-7.142	3.225	-0.600	1.00	0.00
ATOM	351	N	CYX	24	-6.817	0.980	-0.741	1.00	0.00

ATOM	352	H	CYX	24	-6.687	0.183	-1.348	1.00	0.00
ATOM	353	CA	CYX	24	-6.960	0.743	0.690	1.00	0.00
ATOM	354	HA	CYX	24	-7.959	1.041	1.008	1.00	0.00
ATOM	355	CB	CYX	24	-6.758	-0.731	1.031	1.00	0.00
ATOM	356	HB2	CYX	24	-6.348	-1.251	0.165	1.00	0.00
ATOM	357	HB3	CYX	24	-6.066	-0.819	1.868	1.00	0.00
ATOM	358	SG	CYX	24	-8.257	-1.600	1.493	1.00	0.00
ATOM	359	C	CYX	24	-5.951	1.586	1.458	1.00	0.00
ATOM	360	O	CYX	24	-6.275	2.019	2.542	1.00	0.00
ATOM	361	N	GLY	25	-4.808	1.913	0.852	1.00	0.00
ATOM	362	H	GLY	25	-4.637	1.540	-0.071	1.00	0.00
ATOM	363	CA	GLY	25	-3.809	2.765	1.439	1.00	0.00
ATOM	364	HA2	GLY	25	-3.619	2.436	2.460	1.00	0.00
ATOM	365	HA3	GLY	25	-2.891	2.687	0.856	1.00	0.00
ATOM	366	C	GLY	25	-4.254	4.206	1.463	1.00	0.00
ATOM	367	O	GLY	25	-4.218	4.819	2.513	1.00	0.00
ATOM	368	N	MET	26	-4.793	4.724	0.368	1.00	0.00
ATOM	369	H	MET	26	-4.924	4.098	-0.414	1.00	0.00
ATOM	370	CA	MET	26	-5.238	6.088	0.233	1.00	0.00
ATOM	371	HA	MET	26	-4.387	6.763	0.333	1.00	0.00
ATOM	372	CB	MET	26	-5.883	6.316	-1.131	1.00	0.00
ATOM	373	HB2	MET	26	-5.815	5.395	-1.709	1.00	0.00

ATOM	374	HB3 MET	26	-6.931	6.576	-0.984	1.00	0.00
ATOM	375	CG MET	26	-5.184	7.438	-1.883	1.00	0.00
ATOM	376	HG2 MET	26	-5.794	8.341	-1.836	1.00	0.00
ATOM	377	HG3 MET	26	-4.214	7.631	-1.425	1.00	0.00
ATOM	378	SD MET	26	-4.943	6.978	-3.605	1.00	0.00
ATOM	379	CE MET	26	-3.607	8.113	-4.035	1.00	0.00
ATOM	380	HE1 MET	26	-2.745	7.919	-3.397	1.00	0.00
ATOM	381	HE2 MET	26	-3.326	7.967	-5.078	1.00	0.00
ATOM	382	HE3 MET	26	-3.941	9.141	-3.891	1.00	0.00
ATOM	383	C MET	26	-6.284	6.393	1.260	1.00	0.00
ATOM	384	O MET	26	-6.203	7.436	1.864	1.00	0.00
ATOM	385	N TYR	27	-7.292	5.545	1.426	1.00	0.00
ATOM	386	H TYR	27	-7.344	4.740	0.819	1.00	0.00
ATOM	387	CA TYR	27	-8.317	5.709	2.445	1.00	0.00
ATOM	388	HA TYR	27	-9.037	6.481	2.172	1.00	0.00
ATOM	389	CB TYR	27	-9.047	4.374	2.544	1.00	0.00
ATOM	390	HB2 TYR	27	-9.482	4.183	1.563	1.00	0.00
ATOM	391	HB3 TYR	27	-8.304	3.608	2.767	1.00	0.00
ATOM	392	CG TYR	27	-10.135	4.341	3.592	1.00	0.00
ATOM	393	CD1 TYR	27	-11.284	5.132	3.425	1.00	0.00
ATOM	394	HD1 TYR	27	-11.389	5.764	2.542	1.00	0.00
ATOM	395	CE1 TYR	27	-12.300	5.109	4.398	1.00	0.00

ATOM	396	HE1 TYR	27	-13.203	5.703	4.258	1.00	0.00
ATOM	397	CZ TYR	27	-12.165	4.286	5.536	1.00	0.00
ATOM	398	OH TYR	27	-13.129	4.272	6.495	1.00	0.00
ATOM	399	HH TYR	27	-13.861	4.861	6.299	1.00	0.00
ATOM	400	CE2 TYR	27	-11.010	3.502	5.704	1.00	0.00
ATOM	401	HE2 TYR	27	-10.905	2.871	6.586	1.00	0.00
ATOM	402	CD2 TYR	27	-9.991	3.532	4.735	1.00	0.00
ATOM	403	HD2 TYR	27	-9.092	2.930	4.870	1.00	0.00
ATOM	404	C TYR	27	-7.740	6.058	3.813	1.00	0.00
ATOM	405	O TYR	27	-8.280	6.896	4.527	1.00	0.00
ATOM	406	N LEU	28	-6.584	5.481	4.122	1.00	0.00
ATOM	407	H LEU	28	-6.183	4.819	3.473	1.00	0.00
ATOM	408	CA LEU	28	-5.904	5.710	5.374	1.00	0.00
ATOM	409	HA LEU	28	-6.626	6.007	6.135	1.00	0.00
ATOM	410	CB LEU	28	-5.196	4.447	5.841	1.00	0.00
ATOM	411	HB2 LEU	28	-4.243	4.514	5.315	1.00	0.00
ATOM	412	HB3 LEU	28	-5.021	4.489	6.916	1.00	0.00
ATOM	413	CG LEU	28	-5.887	3.118	5.485	1.00	0.00
ATOM	414	HG LEU	28	-6.587	3.301	4.669	1.00	0.00
ATOM	415	CD1 LEU	28	-4.880	2.061	5.061	1.00	0.00
ATOM	416	HD11 LEU	28	-4.180	1.878	5.876	1.00	0.00
ATOM	417	HD12 LEU	28	-5.403	1.137	4.817	1.00	0.00

ATOM	418	HD13 LEU	28	-4.333	2.410	4.185	1.00	0.00
ATOM	419	CD2 LEU	28	-6.750	2.645	6.617	1.00	0.00
ATOM	420	HD21 LEU	28	-7.515	3.393	6.828	1.00	0.00
ATOM	421	HD22 LEU	28	-7.228	1.705	6.342	1.00	0.00
ATOM	422	HD23 LEU	28	-6.135	2.494	7.504	1.00	0.00
ATOM	423	C LEU	28	-4.927	6.863	5.216	1.00	0.00
ATOM	424	O LEU	28	-4.711	7.597	6.163	1.00	0.00
ATOM	425	N MET	29	-4.437	7.121	4.007	1.00	0.00
ATOM	426	H MET	29	-4.629	6.414	3.312	1.00	0.00
ATOM	427	CA MET	29	-3.599	8.236	3.634	1.00	0.00
ATOM	428	HA MET	29	-2.957	8.523	4.467	1.00	0.00
ATOM	429	CB MET	29	-2.718	7.838	2.455	1.00	0.00
ATOM	430	HB2 MET	29	-2.920	6.797	2.203	1.00	0.00
ATOM	431	HB3 MET	29	-2.966	8.472	1.603	1.00	0.00
ATOM	432	CG MET	29	-1.247	8.000	2.795	1.00	0.00
ATOM	433	HG2 MET	29	-1.072	7.596	3.791	1.00	0.00
ATOM	434	HG3 MET	29	-0.657	7.442	2.068	1.00	0.00
ATOM	435	SD MET	29	-0.747	9.724	2.762	1.00	0.00
ATOM	436	CE MET	29	-0.752	9.972	0.977	1.00	0.00
ATOM	437	HE1 MET	29	-1.751	9.783	0.586	1.00	0.00
ATOM	438	HE2 MET	29	-0.463	10.999	0.751	1.00	0.00
ATOM	439	HE3 MET	29	-0.044	9.286	0.512	1.00	0.00



ATOM	440	C	MET	29	-4.387	9.507	3.335	1.00	0.00
ATOM	441	O	MET	29	-3.853	10.498	2.850	1.00	0.00
ATOM	442	N	LYS	30	-5.695	9.490	3.562	1.00	0.00
ATOM	443	H	LYS	30	-6.118	8.631	3.881	1.00	0.00
ATOM	444	CA	LYS	30	-6.555	10.620	3.296	1.00	0.00
ATOM	445	HA	LYS	30	-6.213	11.156	2.410	1.00	0.00
ATOM	446	CB	LYS	30	-7.985	10.126	3.048	1.00	0.00
ATOM	447	HB2	LYS	30	-8.054	9.072	3.314	1.00	0.00
ATOM	448	HB3	LYS	30	-8.677	10.702	3.662	1.00	0.00
ATOM	449	CG	LYS	30	-8.346	10.303	1.568	1.00	0.00
ATOM	450	HG2	LYS	30	-7.435	10.260	0.970	1.00	0.00
ATOM	451	HG3	LYS	30	-9.017	9.500	1.265	1.00	0.00
ATOM	452	CD	LYS	30	-9.036	11.654	1.350	1.00	0.00
ATOM	453	HD2	LYS	30	-9.944	11.478	0.774	1.00	0.00
ATOM	454	HD3	LYS	30	-9.299	12.059	2.327	1.00	0.00
ATOM	455	CE	LYS	30	-8.151	12.650	0.610	1.00	0.00
ATOM	456	HE2	LYS	30	-8.575	13.649	0.718	1.00	0.00
ATOM	457	HE3	LYS	30	-7.153	12.630	1.048	1.00	0.00
ATOM	458	NZ	LYS	30	-8.065	12.303	-0.832	1.00	0.00
ATOM	459	HZ1	LYS	30	-8.989	12.322	-1.239	1.00	0.00
ATOM	460	HZ2	LYS	30	-7.475	12.973	-1.305	1.00	0.00
ATOM	461	HZ3	LYS	30	-7.672	11.379	-0.933	1.00	0.00

ATOM	462	C	LYS	30	-6.456	11.587	4.453	1.00	0.00
ATOM	463	O	LYS	30	-6.761	12.751	4.242	1.00	0.00
ATOM	464	N	ASN	31	-6.066	11.087	5.629	1.00	0.00
ATOM	465	H	ASN	31	-5.938	10.090	5.721	1.00	0.00
ATOM	466	CA	ASN	31	-5.829	11.924	6.795	1.00	0.00
ATOM	467	HA	ASN	31	-6.244	12.921	6.647	1.00	0.00
ATOM	468	CB	ASN	31	-6.519	11.280	8.000	1.00	0.00
ATOM	469	HB2	ASN	31	-6.499	10.193	7.935	1.00	0.00
ATOM	470	HB3	ASN	31	-5.983	11.601	8.893	1.00	0.00
ATOM	471	CG	ASN	31	-7.955	11.730	8.112	1.00	0.00
ATOM	472	OD1	ASN	31	-8.358	12.446	9.003	1.00	0.00
ATOM	473	ND2	ASN	31	-8.758	11.342	7.150	1.00	0.00
ATOM	474	HD21	ASN	31	-9.731	11.612	7.169	1.00	0.00
ATOM	475	HD22	ASN	31	-8.399	10.776	6.394	1.00	0.00
ATOM	476	C	ASN	31	-4.338	12.077	7.084	1.00	0.00
ATOM	477	O	ASN	31	-3.974	12.826	7.979	1.00	0.00
ATOM	478	N	LEU	32	-3.513	11.324	6.355	1.00	0.00
ATOM	479	H	LEU	32	-3.885	10.646	5.706	1.00	0.00
ATOM	480	CA	LEU	32	-2.092	11.392	6.526	1.00	0.00
ATOM	481	HA	LEU	32	-1.855	11.632	7.562	1.00	0.00
ATOM	482	CB	LEU	32	-1.449	10.056	6.176	1.00	0.00
ATOM	483	HB2	LEU	32	-1.792	9.823	5.167	1.00	0.00

ATOM	484	HB3 LEU	32	-0.363	10.156	6.175	1.00	0.00
ATOM	485	CG LEU	32	-1.855	8.934	7.122	1.00	0.00
ATOM	486	HG LEU	32	-2.924	9.006	7.319	1.00	0.00
ATOM	487	CD1 LEU	32	-1.544	7.582	6.505	1.00	0.00
ATOM	488	HD11 LEU	32	-0.474	7.510	6.307	1.00	0.00
ATOM	489	HD12 LEU	32	-1.840	6.791	7.193	1.00	0.00
ATOM	490	HD13 LEU	32	-2.094	7.474	5.570	1.00	0.00
ATOM	491	CD2 LEU	32	-1.150	9.094	8.456	1.00	0.00
ATOM	492	HD21 LEU	32	-1.423	10.052	8.899	1.00	0.00
ATOM	493	HD22 LEU	32	-1.448	8.287	9.124	1.00	0.00
ATOM	494	HD23 LEU	32	-0.071	9.060	8.303	1.00	0.00
ATOM	495	C LEU	32	-1.532	12.517	5.699	1.00	0.00
ATOM	496	O LEU	32	-0.471	12.947	6.103	1.00	0.00
ATOM	497	N GLY	33	-2.245	12.981	4.646	1.00	0.00
ATOM	498	H GLY	33	-3.129	12.527	4.466	1.00	0.00
ATOM	499	CA GLY	33	-1.837	14.068	3.768	1.00	0.00
ATOM	500	HA2 GLY	33	-2.360	13.968	2.816	1.00	0.00
ATOM	501	HA3 GLY	33	-2.107	15.017	4.232	1.00	0.00
ATOM	502	C GLY	33	-0.334	14.052	3.512	1.00	0.00
ATOM	503	O GLY	33	0.446	14.734	4.168	1.00	0.00
ATOM	504	N GLU	34	0.072	13.307	2.492	1.00	0.00
ATOM	505	H GLU	34	-0.585	12.769	1.946	1.00	0.00

ATOM	506	CA	GLU	34	1.488	13.186	2.182	1.00	0.00
ATOM	507	HA	GLU	34	2.066	13.187	3.106	1.00	0.00
ATOM	508	CB	GLU	34	1.773	11.886	1.429	1.00	0.00
ATOM	509	HB2	GLU	34	1.466	11.046	2.051	1.00	0.00
ATOM	510	HB3	GLU	34	1.195	11.883	0.504	1.00	0.00
ATOM	511	CG	GLU	34	3.262	11.759	1.100	1.00	0.00
ATOM	512	HG2	GLU	34	3.407	10.760	0.690	1.00	0.00
ATOM	513	HG3	GLU	34	3.538	12.502	0.351	1.00	0.00
ATOM	514	CD	GLU	34	4.141	11.934	2.339	1.00	0.00
ATOM	515	OE1	GLU	34	3.657	11.679	3.459	1.00	0.00
ATOM	516	OE2	GLU	34	5.299	12.362	2.174	1.00	0.00
ATOM	517	C	GLU	34	1.965	14.395	1.385	1.00	0.00
ATOM	518	O	GLU	34	2.180	14.321	0.173	1.00	0.00
ATOM	519	N	ARG	35	1.974	15.566	2.018	1.00	0.00
ATOM	520	H	ARG	35	1.642	15.616	2.970	1.00	0.00
ATOM	521	CA	ARG	35	2.414	16.791	1.379	1.00	0.00
ATOM	522	HA	ARG	35	3.435	16.674	1.016	1.00	0.00
ATOM	523	CB	ARG	35	1.502	17.128	0.183	1.00	0.00
ATOM	524	HB2	ARG	35	1.209	16.203	-0.312	1.00	0.00
ATOM	525	HB3	ARG	35	0.613	17.642	0.548	1.00	0.00
ATOM	526	CG	ARG	35	2.234	18.024	-0.809	1.00	0.00
ATOM	527	HG2	ARG	35	1.617	18.901	-1.010	1.00	0.00

ATOM	528	HG3	ARG	35	3.178	18.339	-0.365	1.00	0.00
ATOM	529	CD	ARG	35	2.510	17.282	-2.123	1.00	0.00
ATOM	530	HD2	ARG	35	2.521	16.208	-1.938	1.00	0.00
ATOM	531	HD3	ARG	35	1.728	17.519	-2.845	1.00	0.00
ATOM	532	NE	ARG	35	3.809	17.675	-2.691	1.00	0.00
ATOM	533	HE	ARG	35	4.439	18.158	-2.067	1.00	0.00
ATOM	534	CZ	ARG	35	4.221	17.401	-3.912	1.00	0.00
ATOM	535	NH1	ARG	35	3.444	16.777	-4.762	1.00	0.00
ATOM	536	HH11	ARG	35	2.514	16.500	-4.482	1.00	0.00
ATOM	537	HH12	ARG	35	3.779	16.577	-5.694	1.00	0.00
ATOM	538	NH2	ARG	35	5.399	17.801	-4.313	1.00	0.00
ATOM	539	HH21	ARG	35	5.994	18.322	-3.684	1.00	0.00
ATOM	540	HH22	ARG	35	5.709	17.588	-5.251	1.00	0.00
ATOM	541	C	ARG	35	2.394	17.913	2.393	1.00	0.00
ATOM	542	O	ARG	35	3.447	18.428	2.729	1.00	0.00
ATOM	543	N	SER	36	1.189	18.344	2.777	1.00	0.00
ATOM	544	H	SER	36	0.371	17.912	2.372	1.00	0.00
ATOM	545	CA	SER	36	0.997	19.420	3.736	1.00	0.00
ATOM	546	HA	SER	36	1.512	19.192	4.669	1.00	0.00
ATOM	547	CB	SER	36	1.571	20.720	3.166	1.00	0.00
ATOM	548	HB2	SER	36	2.649	20.608	3.051	1.00	0.00
ATOM	549	HB3	SER	36	1.120	20.907	2.191	1.00	0.00

ATOM	550	OG	SER	36	1.302	21.801	4.020	1.00	0.00
ATOM	551	HG	SER	36	1.670	22.605	3.644	1.00	0.00
ATOM	552	C	SER	36	-0.487	19.588	4.028	1.00	0.00
ATOM	553	O	SER	36	-0.936	19.369	5.146	1.00	0.00
ATOM	554	N	GLN	37	-1.269	19.925	2.996	1.00	0.00
ATOM	555	H	GLN	37	-0.854	20.094	2.090	1.00	0.00
ATOM	556	CA	GLN	37	-2.705	20.123	3.145	1.00	0.00
ATOM	557	HA	GLN	37	-3.140	19.301	3.712	1.00	0.00
ATOM	558	CB	GLN	37	-2.975	21.429	3.893	1.00	0.00
ATOM	559	HB2	GLN	37	-2.251	21.543	4.700	1.00	0.00
ATOM	560	HB3	GLN	37	-2.884	22.269	3.203	1.00	0.00
ATOM	561	CG	GLN	37	-4.389	21.400	4.477	1.00	0.00
ATOM	562	HG2	GLN	37	-5.118	21.569	3.684	1.00	0.00
ATOM	563	HG3	GLN	37	-4.556	20.419	4.921	1.00	0.00
ATOM	564	CD	GLN	37	-4.585	22.459	5.550	1.00	0.00
ATOM	565	OE1	GLN	37	-3.683	23.149	5.986	1.00	0.00
ATOM	566	NE2	GLN	37	-5.808	22.628	6.000	1.00	0.00
ATOM	567	HE21	GLN	37	-5.989	23.320	6.713	1.00	0.00
ATOM	568	HE22	GLN	37	-6.561	22.066	5.630	1.00	0.00
ATOM	569	C	GLN	37	-3.387	20.118	1.785	1.00	0.00
ATOM	570	O	GLN	37	-3.774	21.145	1.233	1.00	0.00
ATOM	571	N	VAL	38	-3.406	18.947	1.160	1.00	0.00

ATOM	572	H	VAL	38	-2.896	18.159	1.532	1.00	0.00
ATOM	573	CA	VAL	38	-4.062	18.797	-0.131	1.00	0.00
ATOM	574	HA	VAL	38	-3.849	19.635	-0.796	1.00	0.00
ATOM	575	CB	VAL	38	-3.598	17.506	-0.808	1.00	0.00
ATOM	576	HB	VAL	38	-4.125	17.381	-1.754	1.00	0.00
ATOM	577	CG1	VAL	38	-2.088	17.582	-1.071	1.00	0.00
ATOM	578	HG11	VAL	38	-1.560	17.707	-0.126	1.00	0.00
ATOM	579	HG12	VAL	38	-1.756	16.663	-1.554	1.00	0.00
ATOM	580	HG13	VAL	38	-1.874	18.431	-1.721	1.00	0.00
ATOM	581	CG2	VAL	38	-3.925	16.269	0.037	1.00	0.00
ATOM	582	HG21	VAL	38	-5.002	16.207	0.188	1.00	0.00
ATOM	583	HG22	VAL	38	-3.579	15.374	-0.480	1.00	0.00
ATOM	584	HG23	VAL	38	-3.426	16.347	1.003	1.00	0.00
ATOM	585	C	VAL	38	-5.573	18.868	0.022	1.00	0.00
ATOM	586	O	VAL	38	-6.077	18.889	1.146	1.00	0.00
ATOM	587	N	SER	39	-6.284	18.876	-1.111	1.00	0.00
ATOM	588	H	SER	39	-5.807	18.929	-2.000	1.00	0.00
ATOM	589	CA	SER	39	-7.736	18.900	-1.107	1.00	0.00
ATOM	590	HA	SER	39	-8.085	19.853	-0.709	1.00	0.00
ATOM	591	CB	SER	39	-8.291	18.730	-2.536	1.00	0.00
ATOM	592	HB2	SER	39	-9.125	19.422	-2.656	1.00	0.00
ATOM	593	HB3	SER	39	-7.498	18.993	-3.237	1.00	0.00

ATOM	594	OG	SER	39	-8.733	17.405	-2.797	1.00	0.00
ATOM	595	HG	SER	39	-9.068	17.351	-3.695	1.00	0.00
ATOM	596	C	SER	39	-8.314	17.834	-0.163	1.00	0.00
ATOM	597	O	SER	39	-7.679	16.825	0.184	1.00	0.00
ATOM	598	N	PRO	40	-9.603	17.974	0.151	1.00	0.00
ATOM	599	CD	PRO	40	-10.502	19.024	-0.299	1.00	0.00
ATOM	600	HD2	PRO	40	-10.647	18.903	-1.373	1.00	0.00
ATOM	601	HD3	PRO	40	-10.021	19.983	-0.105	1.00	0.00
ATOM	602	CG	PRO	40	-11.796	18.852	0.491	1.00	0.00
ATOM	603	HG2	PRO	40	-12.607	18.619	-0.199	1.00	0.00
ATOM	604	HG3	PRO	40	-12.021	19.782	1.013	1.00	0.00
ATOM	605	CB	PRO	40	-11.560	17.714	1.480	1.00	0.00
ATOM	606	HB2	PRO	40	-12.395	17.015	1.452	1.00	0.00
ATOM	607	HB3	PRO	40	-11.429	18.083	2.497	1.00	0.00
ATOM	608	CA	PRO	40	-10.277	17.014	1.007	1.00	0.00
ATOM	609	HA	PRO	40	-9.645	16.822	1.873	1.00	0.00
ATOM	610	C	PRO	40	-10.550	15.698	0.273	1.00	0.00
ATOM	611	O	PRO	40	-9.989	15.368	-0.779	1.00	0.00
ATOM	612	N	ARG	41	-11.407	14.866	0.858	1.00	0.00
ATOM	613	H	ARG	41	-11.743	15.088	1.784	1.00	0.00
ATOM	614	CA	ARG	41	-11.828	13.628	0.258	1.00	0.00
ATOM	615	HA	ARG	41	-10.981	13.151	-0.235	1.00	0.00



ATOM	616	CB	ARG	41	-12.377	12.674	1.322	1.00	0.00
ATOM	617	HB2	ARG	41	-11.750	12.735	2.211	1.00	0.00
ATOM	618	HB3	ARG	41	-13.395	12.970	1.574	1.00	0.00
ATOM	619	CG	ARG	41	-12.379	11.228	0.794	1.00	0.00
ATOM	620	HG2	ARG	41	-11.797	11.208	-0.128	1.00	0.00
ATOM	621	HG3	ARG	41	-11.897	10.598	1.541	1.00	0.00
ATOM	622	CD	ARG	41	-13.786	10.705	0.518	1.00	0.00
ATOM	623	HD2	ARG	41	-14.513	11.497	0.700	1.00	0.00
ATOM	624	HD3	ARG	41	-13.858	10.378	-0.520	1.00	0.00
ATOM	625	NE	ARG	41	-14.097	9.574	1.388	1.00	0.00
ATOM	626	HE	ARG	41	-14.025	8.656	0.975	1.00	0.00
ATOM	627	CZ	ARG	41	-14.557	9.676	2.622	1.00	0.00
ATOM	628	NH1	ARG	41	-14.707	10.847	3.194	1.00	0.00
ATOM	629	HH11	ARG	41	-14.468	11.688	2.687	1.00	0.00
ATOM	630	HH12	ARG	41	-15.060	10.903	4.138	1.00	0.00
ATOM	631	NH2	ARG	41	-14.765	8.597	3.323	1.00	0.00
ATOM	632	HH21	ARG	41	-14.573	7.692	2.919	1.00	0.00
ATOM	633	HH22	ARG	41	-15.117	8.672	4.266	1.00	0.00
ATOM	634	C	ARG	41	-12.857	13.891	-0.818	1.00	0.00
ATOM	635	O	ARG	41	-13.870	13.236	-0.810	1.00	0.00
ATOM	636	N	MET	42	-12.609	14.823	-1.725	1.00	0.00
ATOM	637	H	MET	42	-11.754	15.358	-1.659	1.00	0.00

ATOM	638	CA	MET	42	-13.521	15.114	-2.819	1.00	0.00
ATOM	639	HA	MET	42	-14.396	15.654	-2.457	1.00	0.00
ATOM	640	CB	MET	42	-12.797	15.988	-3.844	1.00	0.00
ATOM	641	HB2	MET	42	-13.417	16.061	-4.738	1.00	0.00
ATOM	642	HB3	MET	42	-12.658	16.981	-3.417	1.00	0.00
ATOM	643	CG	MET	42	-11.429	15.396	-4.218	1.00	0.00
ATOM	644	HG2	MET	42	-10.687	15.801	-3.529	1.00	0.00
ATOM	645	HG3	MET	42	-11.486	14.315	-4.096	1.00	0.00
ATOM	646	SD	MET	42	-10.936	15.776	-5.908	1.00	0.00
ATOM	647	CE	MET	42	-10.463	17.508	-5.656	1.00	0.00
ATOM	648	HE1	MET	42	-9.658	17.563	-4.923	1.00	0.00
ATOM	649	HE2	MET	42	-10.122	17.934	-6.601	1.00	0.00
ATOM	650	HE3	MET	42	-11.323	18.071	-5.294	1.00	0.00
ATOM	651	C	MET	42	-14.009	13.841	-3.522	1.00	0.00
ATOM	652	O	MET	42	-15.105	13.836	-4.055	1.00	0.00
ATOM	653	N	ARG	43	-13.179	12.780	-3.504	1.00	0.00
ATOM	654	H	ARG	43	-12.239	12.911	-3.159	1.00	0.00
ATOM	655	CA	ARG	43	-13.539	11.490	-4.029	1.00	0.00
ATOM	656	HA	ARG	43	-13.677	11.557	-5.109	1.00	0.00
ATOM	657	CB	ARG	43	-12.437	10.464	-3.739	1.00	0.00
ATOM	658	HB2	ARG	43	-11.516	10.982	-3.468	1.00	0.00
ATOM	659	HB3	ARG	43	-12.745	9.818	-2.918	1.00	0.00

ATOM	660	CG	ARG	43	-12.196	9.617	-4.993	1.00	0.00
ATOM	661	HG2	ARG	43	-11.901	8.612	-4.692	1.00	0.00
ATOM	662	HG3	ARG	43	-13.119	9.567	-5.571	1.00	0.00
ATOM	663	CD	ARG	43	-11.087	10.239	-5.854	1.00	0.00
ATOM	664	HD2	ARG	43	-11.123	9.812	-6.857	1.00	0.00
ATOM	665	HD3	ARG	43	-11.236	11.318	-5.914	1.00	0.00
ATOM	666	NE	ARG	43	-9.751	9.976	-5.274	1.00	0.00
ATOM	667	HE	ARG	43	-9.691	9.196	-4.637	1.00	0.00
ATOM	668	CZ	ARG	43	-8.643	10.626	-5.580	1.00	0.00
ATOM	669	NH1	ARG	43	-8.660	11.618	-6.429	1.00	0.00
ATOM	670	HH11	ARG	43	-9.530	11.896	-6.860	1.00	0.00
ATOM	671	HH12	ARG	43	-7.802	12.104	-6.651	1.00	0.00
ATOM	672	NH2	ARG	43	-7.518	10.332	-4.972	1.00	0.00
ATOM	673	HH21	ARG	43	-7.502	9.607	-4.270	1.00	0.00
ATOM	674	HH22	ARG	43	-6.673	10.833	-5.210	1.00	0.00
ATOM	675	C	ARG	43	-14.880	11.045	-3.466	1.00	0.00
ATOM	676	O	ARG	43	-15.123	11.155	-2.272	1.00	0.00
ATOM	677	N	GLU	44	-15.671	10.421	-4.301	1.00	0.00
ATOM	678	H	GLU	44	-15.408	10.340	-5.273	1.00	0.00
ATOM	679	CA	GLU	44	-16.958	9.875	-3.885	1.00	0.00
ATOM	680	HA	GLU	44	-17.175	10.171	-2.859	1.00	0.00
ATOM	681	CB	GLU	44	-18.068	10.407	-4.792	1.00	0.00

ATOM	682	HB2	GLU	44	-19.012	9.965	-4.476	1.00	0.00
ATOM	683	HB3	GLU	44	-18.117	11.490	-4.677	1.00	0.00
ATOM	684	CG	GLU	44	-17.809	10.060	-6.272	1.00	0.00
ATOM	685	HG2	GLU	44	-17.642	10.958	-6.868	1.00	0.00
ATOM	686	HG3	GLU	44	-16.906	9.450	-6.275	1.00	0.00
ATOM	687	CD	GLU	44	-18.968	9.259	-6.870	1.00	0.00
ATOM	688	OE1	GLU	44	-18.978	8.029	-6.640	1.00	0.00
ATOM	689	OE2	GLU	44	-19.847	9.912	-7.479	1.00	0.00
ATOM	690	C	GLU	44	-16.935	8.345	-3.912	1.00	0.00
ATOM	691	O	GLU	44	-17.666	7.703	-3.167	1.00	0.00
ATOM	692	N	GLU	45	-15.983	7.772	-4.657	1.00	0.00
ATOM	693	H	GLU	45	-15.335	8.355	-5.168	1.00	0.00
ATOM	694	CA	GLU	45	-15.876	6.339	-4.803	1.00	0.00
ATOM	695	HA	GLU	45	-16.872	5.900	-4.852	1.00	0.00
ATOM	696	CB	GLU	45	-15.117	5.978	-6.089	1.00	0.00
ATOM	697	HB2	GLU	45	-14.590	6.861	-6.451	1.00	0.00
ATOM	698	HB3	GLU	45	-14.397	5.191	-5.869	1.00	0.00
ATOM	699	CG	GLU	45	-16.098	5.488	-7.169	1.00	0.00
ATOM	700	HG2	GLU	45	-16.343	4.427	-7.190	1.00	0.00
ATOM	701	HG3	GLU	45	-16.973	6.057	-6.855	1.00	0.00
ATOM	702	CD	GLU	45	-15.672	5.940	-8.567	1.00	0.00
ATOM	703	OE1	GLU	45	-15.759	7.157	-8.839	1.00	0.00

ATOM	704	OE2	GLU	45	-15.045	5.105	-9.262	1.00	0.00
ATOM	705	C	GLU	45	-15.177	5.797	-3.567	1.00	0.00
ATOM	706	O	GLU	45	-13.999	6.101	-3.306	1.00	0.00
ATOM	707	N	ASP	46	-15.894	4.964	-2.821	1.00	0.00
ATOM	708	H	ASP	46	-16.839	4.741	-3.098	1.00	0.00
ATOM	709	CA	ASP	46	-15.371	4.361	-1.614	1.00	0.00
ATOM	710	HA	ASP	46	-14.970	5.137	-0.962	1.00	0.00
ATOM	711	CB	ASP	46	-16.472	3.608	-0.861	1.00	0.00
ATOM	712	HB2	ASP	46	-17.347	4.241	-1.008	1.00	0.00
ATOM	713	HB3	ASP	46	-16.660	2.624	-1.290	1.00	0.00
ATOM	714	CG	ASP	46	-16.190	3.467	0.638	1.00	0.00
ATOM	715	OD1	ASP	46	-15.163	4.022	1.107	1.00	0.00
ATOM	716	OD2	ASP	46	-16.936	2.717	1.298	1.00	0.00
ATOM	717	C	ASP	46	-14.261	3.384	-1.987	1.00	0.00
ATOM	718	O	ASP	46	-14.326	2.643	-2.980	1.00	0.00
ATOM	719	N	HID	47	-13.183	3.365	-1.215	1.00	0.00
ATOM	720	H	HID	47	-13.101	4.025	-0.455	1.00	0.00
ATOM	721	CA	HID	47	-12.072	2.461	-1.465	1.00	0.00
ATOM	722	HA	HID	47	-12.311	1.790	-2.290	1.00	0.00
ATOM	723	CB	HID	47	-10.830	3.263	-1.835	1.00	0.00
ATOM	724	HB2	HID	47	-10.652	4.065	-1.118	1.00	0.00
ATOM	725	HB3	HID	47	-9.953	2.618	-1.884	1.00	0.00

ATOM	726	CG	HID	47	-10.960	3.918	-3.192	1.00	0.00
ATOM	727	ND1	HID	47	-11.939	3.618	-4.131	1.00	0.00
ATOM	728	HD1	HID	47	-12.662	2.920	-4.034	1.00	0.00
ATOM	729	CE1	HID	47	-11.754	4.422	-5.195	1.00	0.00
ATOM	730	HE1	HID	47	-12.436	4.376	-6.045	1.00	0.00
ATOM	731	NE2	HID	47	-10.660	5.194	-4.973	1.00	0.00
ATOM	732	CD2	HID	47	-10.150	4.895	-3.718	1.00	0.00
ATOM	733	HD2	HID	47	-9.267	5.418	-3.350	1.00	0.00
ATOM	734	C	HID	47	-11.854	1.613	-0.248	1.00	0.00
ATOM	735	O	HID	47	-11.631	2.168	0.818	1.00	0.00
ATOM	736	N	LYS	48	-11.838	0.292	-0.448	1.00	0.00
ATOM	737	H	LYS	48	-12.019	-0.044	-1.383	1.00	0.00
ATOM	738	CA	LYS	48	-11.631	-0.687	0.611	1.00	0.00
ATOM	739	HA	LYS	48	-10.598	-0.648	0.958	1.00	0.00
ATOM	740	CB	LYS	48	-12.556	-0.386	1.793	1.00	0.00
ATOM	741	HB2	LYS	48	-13.132	0.513	1.571	1.00	0.00
ATOM	742	HB3	LYS	48	-13.235	-1.227	1.933	1.00	0.00
ATOM	743	CG	LYS	48	-11.741	-0.167	3.074	1.00	0.00
ATOM	744	HG2	LYS	48	-11.090	-1.028	3.224	1.00	0.00
ATOM	745	HG3	LYS	48	-11.133	0.730	2.950	1.00	0.00
ATOM	746	CD	LYS	48	-12.657	0.000	4.293	1.00	0.00
ATOM	747	HD2	LYS	48	-12.069	0.390	5.124	1.00	0.00

ATOM	748	HD3 LYS	48	-13.448	0.708	4.044	1.00	0.00
ATOM	749	CE LYS	48	-13.281	-1.346	4.694	1.00	0.00
ATOM	750	HE2 LYS	48	-12.543	-2.134	4.542	1.00	0.00
ATOM	751	HE3 LYS	48	-13.557	-1.305	5.747	1.00	0.00
ATOM	752	NZ LYS	48	-14.488	-1.634	3.877	1.00	0.00
ATOM	753	HZ1 LYS	48	-14.232	-1.672	2.900	1.00	0.00
ATOM	754	HZ2 LYS	48	-14.880	-2.521	4.157	1.00	0.00
ATOM	755	HZ3 LYS	48	-15.172	-0.904	4.017	1.00	0.00
ATOM	756	C LYS	48	-11.863	-2.097	0.096	1.00	0.00
ATOM	757	O LYS	48	-11.154	-3.020	0.457	1.00	0.00
ATOM	758	N GLN	49	-12.783	-2.233	-0.854	1.00	0.00
ATOM	759	H GLN	49	-13.299	-1.424	-1.173	1.00	0.00
ATOM	760	CA GLN	49	-13.063	-3.503	-1.464	1.00	0.00
ATOM	761	HA GLN	49	-12.859	-4.299	-0.749	1.00	0.00
ATOM	762	CB GLN	49	-14.517	-3.602	-1.901	1.00	0.00
ATOM	763	HB2 GLN	49	-14.972	-2.611	-1.876	1.00	0.00
ATOM	764	HB3 GLN	49	-14.565	-3.997	-2.916	1.00	0.00
ATOM	765	CG GLN	49	-15.273	-4.533	-0.956	1.00	0.00
ATOM	766	HG2 GLN	49	-14.790	-5.509	-0.986	1.00	0.00
ATOM	767	HG3 GLN	49	-15.236	-4.140	0.060	1.00	0.00
ATOM	768	CD GLN	49	-16.729	-4.698	-1.360	1.00	0.00
ATOM	769	OE1 GLN	49	-17.169	-4.287	-2.414	1.00	0.00

ATOM	770	NE2	GLN	49	-17.511	-5.296	-0.492	1.00	0.00
ATOM	771	HE21	GLN	49	-18.488	-5.432	-0.708	1.00	0.00
ATOM	772	HE22	GLN	49	-17.132	-5.616	0.387	1.00	0.00
ATOM	773	C	GLN	49	-12.200	-3.661	-2.677	1.00	0.00
ATOM	774	O	GLN	49	-11.850	-4.773	-2.931	1.00	0.00
ATOM	775	N	LEU	50	-11.732	-2.611	-3.345	1.00	0.00
ATOM	776	H	LEU	50	-12.050	-1.695	-3.062	1.00	0.00
ATOM	777	CA	LEU	50	-10.837	-2.706	-4.486	1.00	0.00
ATOM	778	HA	LEU	50	-11.251	-3.364	-5.250	1.00	0.00
ATOM	779	CB	LEU	50	-10.666	-1.301	-5.088	1.00	0.00
ATOM	780	HB2	LEU	50	-10.779	-0.608	-4.254	1.00	0.00
ATOM	781	HB3	LEU	50	-9.664	-1.203	-5.508	1.00	0.00
ATOM	782	CG	LEU	50	-11.709	-0.974	-6.171	1.00	0.00
ATOM	783	HG	LEU	50	-12.648	-1.474	-5.934	1.00	0.00
ATOM	784	CD1	LEU	50	-11.937	0.541	-6.224	1.00	0.00
ATOM	785	HD11	LEU	50	-10.999	1.042	-6.462	1.00	0.00
ATOM	786	HD12	LEU	50	-12.676	0.772	-6.992	1.00	0.00
ATOM	787	HD13	LEU	50	-12.299	0.889	-5.257	1.00	0.00
ATOM	788	CD2	LEU	50	-11.259	-1.503	-7.535	1.00	0.00
ATOM	789	HD21	LEU	50	-11.134	-2.584	-7.483	1.00	0.00
ATOM	790	HD22	LEU	50	-12.011	-1.260	-8.286	1.00	0.00
ATOM	791	HD23	LEU	50	-10.311	-1.041	-7.810	1.00	0.00



ATOM	792	C	LEU	50	-9.498	-3.306	-4.054	1.00	0.00
ATOM	793	O	LEU	50	-8.814	-3.900	-4.866	1.00	0.00
ATOM	794	N	CYX	51	-9.159	-3.203	-2.766	1.00	0.00
ATOM	795	H	CYX	51	-9.734	-2.642	-2.154	1.00	0.00
ATOM	796	CA	CYX	51	-7.972	-3.813	-2.221	1.00	0.00
ATOM	797	HA	CYX	51	-7.199	-3.874	-2.987	1.00	0.00
ATOM	798	CB	CYX	51	-7.446	-2.986	-1.068	1.00	0.00
ATOM	799	HB2	CYX	51	-6.360	-3.067	-1.028	1.00	0.00
ATOM	800	HB3	CYX	51	-7.726	-1.942	-1.212	1.00	0.00
ATOM	801	SG	CYX	51	-8.002	-3.369	0.624	1.00	0.00
ATOM	802	C	CYX	51	-8.265	-5.221	-1.783	1.00	0.00
ATOM	803	O	CYX	51	-7.557	-6.100	-2.230	1.00	0.00
ATOM	804	N	CYX	52	-9.371	-5.444	-1.061	1.00	0.00
ATOM	805	H	CYX	52	-9.907	-4.651	-0.738	1.00	0.00
ATOM	806	CA	CYX	52	-9.780	-6.773	-0.637	1.00	0.00
ATOM	807	HA	CYX	52	-8.919	-7.323	-0.257	1.00	0.00
ATOM	808	CB	CYX	52	-10.831	-6.674	0.477	1.00	0.00
ATOM	809	HB2	CYX	52	-11.421	-5.767	0.341	1.00	0.00
ATOM	810	HB3	CYX	52	-11.487	-7.543	0.436	1.00	0.00
ATOM	811	SG	CYX	52	-10.083	-6.657	2.138	1.00	0.00
ATOM	812	C	CYX	52	-10.276	-7.584	-1.839	1.00	0.00
ATOM	813	O	CYX	52	-10.610	-8.751	-1.697	1.00	0.00

ATOM	814	N	MET	53	-10.335	-6.971	-3.020	1.00	0.00
ATOM	815	H	MET	53	-10.012	-6.014	-3.056	1.00	0.00
ATOM	816	CA	MET	53	-10.836	-7.567	-4.229	1.00	0.00
ATOM	817	HA	MET	53	-11.494	-8.398	-3.979	1.00	0.00
ATOM	818	CB	MET	53	-11.626	-6.551	-5.061	1.00	0.00
ATOM	819	HB2	MET	53	-12.587	-6.378	-4.577	1.00	0.00
ATOM	820	HB3	MET	53	-11.063	-5.617	-5.094	1.00	0.00
ATOM	821	CG	MET	53	-11.856	-7.052	-6.476	1.00	0.00
ATOM	822	HG2	MET	53	-11.617	-8.114	-6.524	1.00	0.00
ATOM	823	HG3	MET	53	-12.902	-6.902	-6.744	1.00	0.00
ATOM	824	SD	MET	53	-10.810	-6.156	-7.646	1.00	0.00
ATOM	825	CE	MET	53	-10.486	-7.496	-8.811	1.00	0.00
ATOM	826	HE1	MET	53	-11.428	-7.851	-9.228	1.00	0.00
ATOM	827	HE2	MET	53	-9.847	-7.131	-9.616	1.00	0.00
ATOM	828	HE3	MET	53	-9.986	-8.315	-8.294	1.00	0.00
ATOM	829	C	MET	53	-9.646	-8.072	-5.008	1.00	0.00
ATOM	830	O	MET	53	-9.634	-9.226	-5.402	1.00	0.00
ATOM	831	N	GLN	54	-8.683	-7.196	-5.286	1.00	0.00
ATOM	832	H	GLN	54	-8.739	-6.242	-4.958	1.00	0.00
ATOM	833	CA	GLN	54	-7.524	-7.588	-6.058	1.00	0.00
ATOM	834	HA	GLN	54	-7.840	-8.126	-6.952	1.00	0.00
ATOM	835	CB	GLN	54	-6.734	-6.371	-6.482	1.00	0.00

ATOM	836	HB2	GLN	54	-6.821	-5.620	-5.697	1.00	0.00
ATOM	837	HB3	GLN	54	-5.690	-6.665	-6.588	1.00	0.00
ATOM	838	CG	GLN	54	-7.230	-5.791	-7.792	1.00	0.00
ATOM	839	HG2	GLN	54	-6.482	-5.978	-8.563	1.00	0.00
ATOM	840	HG3	GLN	54	-8.155	-6.306	-8.051	1.00	0.00
ATOM	841	CD	GLN	54	-7.506	-4.296	-7.736	1.00	0.00
ATOM	842	OE1	GLN	54	-6.814	-3.485	-7.161	1.00	0.00
ATOM	843	NE2	GLN	54	-8.558	-3.852	-8.365	1.00	0.00
ATOM	844	HE21	GLN	54	-8.773	-2.865	-8.350	1.00	0.00
ATOM	845	HE22	GLN	54	-9.153	-4.496	-8.865	1.00	0.00
ATOM	846	C	GLN	54	-6.623	-8.470	-5.233	1.00	0.00
ATOM	847	O	GLN	54	-6.009	-9.352	-5.802	1.00	0.00
ATOM	848	N	LEU	55	-6.579	-8.296	-3.910	1.00	0.00
ATOM	849	H	LEU	55	-7.133	-7.566	-3.485	1.00	0.00
ATOM	850	CA	LEU	55	-5.745	-9.119	-3.050	1.00	0.00
ATOM	851	HA	LEU	55	-4.691	-8.986	-3.297	1.00	0.00
ATOM	852	CB	LEU	55	-5.962	-8.699	-1.606	1.00	0.00
ATOM	853	HB2	LEU	55	-6.935	-8.210	-1.645	1.00	0.00
ATOM	854	HB3	LEU	55	-6.023	-9.579	-0.966	1.00	0.00
ATOM	855	CG	LEU	55	-4.916	-7.718	-1.033	1.00	0.00
ATOM	856	HG	LEU	55	-4.366	-7.293	-1.874	1.00	0.00
ATOM	857	CD1	LEU	55	-5.541	-6.583	-0.204	1.00	0.00

ATOM	858	HD11	LEU	55	-6.090	-7.006	0.636	1.00	0.00
ATOM	859	HD12	LEU	55	-4.753	-5.929	0.169	1.00	0.00
ATOM	860	HD13	LEU	55	-6.223	-6.008	-0.831	1.00	0.00
ATOM	861	CD2	LEU	55	-3.858	-8.461	-0.212	1.00	0.00
ATOM	862	HD21	LEU	55	-3.347	-9.184	-0.847	1.00	0.00
ATOM	863	HD22	LEU	55	-3.134	-7.746	0.179	1.00	0.00
ATOM	864	HD23	LEU	55	-4.339	-8.981	0.616	1.00	0.00
ATOM	865	C	LEU	55	-6.120	-10.581	-3.236	1.00	0.00
ATOM	866	O	LEU	55	-5.271	-11.437	-3.090	1.00	0.00
ATOM	867	N	LYS	56	-7.369	-10.859	-3.611	1.00	0.00
ATOM	868	H	LYS	56	-8.075	-10.137	-3.572	1.00	0.00
ATOM	869	CA	LYS	56	-7.777	-12.197	-3.973	1.00	0.00
ATOM	870	HA	LYS	56	-7.459	-12.914	-3.217	1.00	0.00
ATOM	871	CB	LYS	56	-9.300	-12.234	-4.071	1.00	0.00
ATOM	872	HB2	LYS	56	-9.722	-11.986	-3.098	1.00	0.00
ATOM	873	HB3	LYS	56	-9.624	-11.496	-4.806	1.00	0.00
ATOM	874	CG	LYS	56	-9.782	-13.624	-4.497	1.00	0.00
ATOM	875	HG2	LYS	56	-10.085	-13.586	-5.544	1.00	0.00
ATOM	876	HG3	LYS	56	-8.961	-14.332	-4.382	1.00	0.00
ATOM	877	CD	LYS	56	-10.966	-14.073	-3.640	1.00	0.00
ATOM	878	HD2	LYS	56	-10.590	-14.538	-2.730	1.00	0.00
ATOM	879	HD3	LYS	56	-11.568	-13.202	-3.381	1.00	0.00

ATOM	880	CE	LYS	56	-11.829	-15.079	-4.409	1.00	0.00
ATOM	881	HE2	LYS	56	-11.782	-14.851	-5.474	1.00	0.00
ATOM	882	HE3	LYS	56	-11.447	-16.085	-4.236	1.00	0.00
ATOM	883	NZ	LYS	56	-13.236	-14.999	-3.949	1.00	0.00
ATOM	884	HZ1	LYS	56	-13.590	-14.067	-4.110	1.00	0.00
ATOM	885	HZ2	LYS	56	-13.796	-15.665	-4.462	1.00	0.00
ATOM	886	HZ3	LYS	56	-13.280	-15.210	-2.963	1.00	0.00
ATOM	887	C	LYS	56	-7.099	-12.686	-5.250	1.00	0.00
ATOM	888	O	LYS	56	-6.713	-13.841	-5.302	1.00	0.00
ATOM	889	N	ASN	57	-7.063	-11.849	-6.287	1.00	0.00
ATOM	890	H	ASN	57	-7.587	-10.986	-6.256	1.00	0.00
ATOM	891	CA	ASN	57	-6.319	-12.157	-7.491	1.00	0.00
ATOM	892	HA	ASN	57	-6.752	-13.029	-7.980	1.00	0.00
ATOM	893	CB	ASN	57	-6.365	-10.969	-8.473	1.00	0.00
ATOM	894	HB2	ASN	57	-6.669	-10.049	-7.974	1.00	0.00
ATOM	895	HB3	ASN	57	-5.348	-10.858	-8.849	1.00	0.00
ATOM	896	CG	ASN	57	-7.288	-11.210	-9.643	1.00	0.00
ATOM	897	OD1	ASN	57	-7.701	-12.307	-9.969	1.00	0.00
ATOM	898	ND2	ASN	57	-7.704	-10.139	-10.279	1.00	0.00
ATOM	899	HD21	ASN	57	-8.324	-10.234	-11.071	1.00	0.00
ATOM	900	HD22	ASN	57	-7.402	-9.224	-9.974	1.00	0.00
ATOM	901	C	ASN	57	-4.856	-12.506	-7.216	1.00	0.00

ATOM	902	O	ASN	57	-4.255	-13.200	-8.028	1.00	0.00
ATOM	903	N	LEU	58	-4.279	-11.893	-6.176	1.00	0.00
ATOM	904	H	LEU	58	-4.760	-11.134	-5.714	1.00	0.00
ATOM	905	CA	LEU	58	-2.929	-12.196	-5.767	1.00	0.00
ATOM	906	HA	LEU	58	-2.252	-12.139	-6.620	1.00	0.00
ATOM	907	CB	LEU	58	-2.475	-11.174	-4.711	1.00	0.00
ATOM	908	HB2	LEU	58	-3.366	-10.913	-4.140	1.00	0.00
ATOM	909	HB3	LEU	58	-1.757	-11.670	-4.058	1.00	0.00
ATOM	910	CG	LEU	58	-1.852	-9.912	-5.280	1.00	0.00
ATOM	911	HG	LEU	58	-2.606	-9.363	-5.845	1.00	0.00
ATOM	912	CD1	LEU	58	-1.321	-9.028	-4.145	1.00	0.00
ATOM	913	HD11	LEU	58	-0.566	-9.575	-3.580	1.00	0.00
ATOM	914	HD12	LEU	58	-0.876	-8.125	-4.565	1.00	0.00
ATOM	915	HD13	LEU	58	-2.142	-8.753	-3.483	1.00	0.00
ATOM	916	CD2	LEU	58	-0.728	-10.257	-6.212	1.00	0.00
ATOM	917	HD21	LEU	58	-1.109	-10.865	-7.033	1.00	0.00
ATOM	918	HD22	LEU	58	-0.292	-9.341	-6.612	1.00	0.00
ATOM	919	HD23	LEU	58	0.035	-10.815	-5.671	1.00	0.00
ATOM	920	C	LEU	58	-2.795	-13.650	-5.295	1.00	0.00
ATOM	921	O	LEU	58	-3.705	-14.469	-5.391	1.00	0.00
ATOM	922	N	ASP	59	-1.620	-13.980	-4.782	1.00	0.00
ATOM	923	H	ASP	59	-0.874	-13.300	-4.731	1.00	0.00

ATOM	924	CA	ASP	59	-1.368	-15.311	-4.286	1.00	0.00
ATOM	925	HA	ASP	59	-2.045	-16.019	-4.762	1.00	0.00
ATOM	926	CB	ASP	59	0.067	-15.725	-4.596	1.00	0.00
ATOM	927	HB2	ASP	59	0.608	-14.964	-4.034	1.00	0.00
ATOM	928	HB3	ASP	59	0.348	-16.713	-4.233	1.00	0.00
ATOM	929	CG	ASP	59	0.418	-15.609	-6.076	1.00	0.00
ATOM	930	OD1	ASP	59	-0.343	-16.157	-6.892	1.00	0.00
ATOM	931	OD2	ASP	59	1.541	-15.129	-6.335	1.00	0.00
ATOM	932	C	ASP	59	-1.582	-15.338	-2.786	1.00	0.00
ATOM	933	O	ASP	59	-1.252	-14.374	-2.092	1.00	0.00
ATOM	934	N	GLU	60	-1.824	-16.529	-2.243	1.00	0.00
ATOM	935	H	GLU	60	-1.893	-17.345	-2.834	1.00	0.00
ATOM	936	CA	GLU	60	-2.022	-16.696	-0.803	1.00	0.00
ATOM	937	HA	GLU	60	-2.685	-15.916	-0.429	1.00	0.00
ATOM	938	CB	GLU	60	-2.652	-18.062	-0.502	1.00	0.00
ATOM	939	HB2	GLU	60	-3.005	-18.505	-1.433	1.00	0.00
ATOM	940	HB3	GLU	60	-1.900	-18.711	-0.053	1.00	0.00
ATOM	941	CG	GLU	60	-3.831	-17.899	0.466	1.00	0.00
ATOM	942	HG2	GLU	60	-3.549	-17.128	1.184	1.00	0.00
ATOM	943	HG3	GLU	60	-4.726	-17.584	-0.071	1.00	0.00
ATOM	944	CD	GLU	60	-4.114	-19.210	1.208	1.00	0.00
ATOM	945	OE1	GLU	60	-3.501	-19.402	2.283	1.00	0.00

ATOM	946	OE2	GLU	60	-4.903	-20.015	0.669	1.00	0.00
ATOM	947	C	GLU	60	-0.688	-16.577	-0.066	1.00	0.00
ATOM	948	O	GLU	60	-0.625	-16.232	1.109	1.00	0.00
ATOM	949	N	LYS	61	0.412	-16.822	-0.786	1.00	0.00
ATOM	950	H	LYS	61	0.318	-17.199	-1.718	1.00	0.00
ATOM	951	CA	LYS	61	1.737	-16.653	-0.248	1.00	0.00
ATOM	952	HA	LYS	61	1.726	-16.771	0.835	1.00	0.00
ATOM	953	CB	LYS	61	2.663	-17.713	-0.846	1.00	0.00
ATOM	954	HB2	LYS	61	3.569	-17.754	-0.241	1.00	0.00
ATOM	955	HB3	LYS	61	2.153	-18.675	-0.802	1.00	0.00
ATOM	956	CG	LYS	61	3.035	-17.398	-2.301	1.00	0.00
ATOM	957	HG2	LYS	61	2.123	-17.189	-2.861	1.00	0.00
ATOM	958	HG3	LYS	61	3.680	-16.519	-2.318	1.00	0.00
ATOM	959	CD	LYS	61	3.768	-18.580	-2.943	1.00	0.00
ATOM	960	HD2	LYS	61	4.696	-18.221	-3.389	1.00	0.00
ATOM	961	HD3	LYS	61	3.996	-19.316	-2.173	1.00	0.00
ATOM	962	CE	LYS	61	2.897	-19.228	-4.027	1.00	0.00
ATOM	963	HE2	LYS	61	2.240	-18.469	-4.453	1.00	0.00
ATOM	964	HE3	LYS	61	3.544	-19.627	-4.809	1.00	0.00
ATOM	965	NZ	LYS	61	2.079	-20.325	-3.453	1.00	0.00
ATOM	966	HZ1	LYS	61	1.480	-19.954	-2.730	1.00	0.00
ATOM	967	HZ2	LYS	61	1.513	-20.738	-4.181	1.00	0.00



ATOM	968	HZ3	LYS	61	2.688	-21.028	-3.059	1.00	0.00
ATOM	969	C	LYS	61	2.224	-15.249	-0.496	1.00	0.00
ATOM	970	O	LYS	61	3.290	-14.956	-0.010	1.00	0.00
ATOM	971	N	CYX	62	1.542	-14.435	-1.295	1.00	0.00
ATOM	972	H	CYX	62	0.758	-14.829	-1.795	1.00	0.00
ATOM	973	CA	CYX	62	1.874	-13.048	-1.527	1.00	0.00
ATOM	974	HA	CYX	62	2.903	-12.846	-1.231	1.00	0.00
ATOM	975	CB	CYX	62	1.728	-12.746	-3.004	1.00	0.00
ATOM	976	HB2	CYX	62	0.777	-13.139	-3.364	1.00	0.00
ATOM	977	HB3	CYX	62	1.757	-11.667	-3.160	1.00	0.00
ATOM	978	SG	CYX	62	3.022	-13.494	-4.031	1.00	0.00
ATOM	979	C	CYX	62	0.965	-12.154	-0.681	1.00	0.00
ATOM	980	O	CYX	62	1.277	-11.002	-0.408	1.00	0.00
ATOM	981	N	MET	63	-0.089	-12.692	-0.102	1.00	0.00
ATOM	982	H	MET	63	-0.284	-13.671	-0.255	1.00	0.00
ATOM	983	CA	MET	63	-1.000	-11.934	0.711	1.00	0.00
ATOM	984	HA	MET	63	-1.091	-10.913	0.340	1.00	0.00
ATOM	985	CB	MET	63	-2.358	-12.593	0.651	1.00	0.00
ATOM	986	HB2	MET	63	-2.216	-13.665	0.787	1.00	0.00
ATOM	987	HB3	MET	63	-2.957	-12.199	1.471	1.00	0.00
ATOM	988	CG	MET	63	-3.074	-12.341	-0.664	1.00	0.00
ATOM	989	HG2	MET	63	-3.717	-11.470	-0.538	1.00	0.00

ATOM	990	HG3 MET	63	-2.322	-12.129	-1.425	1.00	0.00
ATOM	991	SD MET	63	-4.074	-13.746	-1.194	1.00	0.00
ATOM	992	CE MET	63	-4.932	-14.124	0.337	1.00	0.00
ATOM	993	HE1 MET	63	-5.517	-13.259	0.649	1.00	0.00
ATOM	994	HE2 MET	63	-5.596	-14.974	0.181	1.00	0.00
ATOM	995	HE3 MET	63	-4.204	-14.368	1.111	1.00	0.00
ATOM	996	C MET	63	-0.464	-11.882	2.117	1.00	0.00
ATOM	997	O MET	63	-1.042	-12.392	3.034	1.00	0.00
ATOM	998	N CYX	64	0.680	-11.295	2.360	1.00	0.00
ATOM	999	H CYX	64	1.177	-10.912	1.567	1.00	0.00
ATOM	1000	CA CYX	64	1.310	-11.222	3.670	1.00	0.00
ATOM	1001	HA CYX	64	0.736	-10.530	4.286	1.00	0.00
ATOM	1002	CB CYX	64	1.386	-12.581	4.394	1.00	0.00
ATOM	1003	HB2 CYX	64	0.569	-12.657	5.111	1.00	0.00
ATOM	1004	HB3 CYX	64	1.304	-13.386	3.664	1.00	0.00
ATOM	1005	SG CYX	64	2.928	-12.895	5.346	1.00	0.00
ATOM	1006	C CYX	64	2.684	-10.627	3.487	1.00	0.00
ATOM	1007	O CYX	64	2.946	-9.551	4.026	1.00	0.00
ATOM	1008	N PRO	65	3.535	-11.293	2.685	1.00	0.00
ATOM	1009	CD PRO	65	3.276	-12.542	1.981	1.00	0.00
ATOM	1010	HD2 PRO	65	2.537	-12.335	1.207	1.00	0.00
ATOM	1011	HD3 PRO	65	2.860	-13.245	2.702	1.00	0.00

ATOM	1012	CG	PRO	65	4.597	-13.012	1.412	1.00	0.00
ATOM	1013	HG2	PRO	65	4.529	-13.023	0.324	1.00	0.00
ATOM	1014	HG3	PRO	65	4.798	-14.020	1.773	1.00	0.00
ATOM	1015	CB	PRO	65	5.659	-12.046	1.889	1.00	0.00
ATOM	1016	HB2	PRO	65	6.260	-11.740	1.032	1.00	0.00
ATOM	1017	HB3	PRO	65	6.309	-12.463	2.658	1.00	0.00
ATOM	1018	CA	PRO	65	4.895	-10.837	2.448	1.00	0.00
ATOM	1019	HA	PRO	65	5.331	-10.517	3.394	1.00	0.00
ATOM	1020	C	PRO	65	4.906	-9.672	1.465	1.00	0.00
ATOM	1021	O	PRO	65	5.711	-8.762	1.605	1.00	0.00
ATOM	1022	N	ALA	66	3.994	-9.690	0.493	1.00	0.00
ATOM	1023	H	ALA	66	3.369	-10.479	0.412	1.00	0.00
ATOM	1024	CA	ALA	66	3.880	-8.635	-0.464	1.00	0.00
ATOM	1025	HA	ALA	66	4.850	-8.361	-0.881	1.00	0.00
ATOM	1026	CB	ALA	66	2.969	-9.058	-1.596	1.00	0.00
ATOM	1027	HB1	ALA	66	1.992	-9.326	-1.196	1.00	0.00
ATOM	1028	HB2	ALA	66	2.859	-8.234	-2.302	1.00	0.00
ATOM	1029	HB3	ALA	66	3.400	-9.918	-2.108	1.00	0.00
ATOM	1030	C	ALA	66	3.333	-7.422	0.228	1.00	0.00
ATOM	1031	O	ALA	66	3.938	-6.391	0.081	1.00	0.00
ATOM	1032	N	ILE	67	2.251	-7.524	0.995	1.00	0.00
ATOM	1033	H	ILE	67	1.819	-8.432	1.084	1.00	0.00

ATOM	1034	CA	ILE	67	1.652	-6.405	1.701	1.00	0.00
ATOM	1035	HA	ILE	67	1.072	-5.740	1.060	1.00	0.00
ATOM	1036	CB	ILE	67	0.774	-6.908	2.838	1.00	0.00
ATOM	1037	HB	ILE	67	1.313	-7.677	3.389	1.00	0.00
ATOM	1038	CG2	ILE	67	0.414	-5.751	3.790	1.00	0.00
ATOM	1039	HG21	ILE	67	-0.125	-4.980	3.238	1.00	0.00
ATOM	1040	HG22	ILE	67	-0.214	-6.126	4.597	1.00	0.00
ATOM	1041	HG23	ILE	67	1.327	-5.326	4.207	1.00	0.00
ATOM	1042	CG1	ILE	67	-0.456	-7.638	2.265	1.00	0.00
ATOM	1043	HG12	ILE	67	-0.526	-7.401	1.203	1.00	0.00
ATOM	1044	HG13	ILE	67	-0.302	-8.710	2.388	1.00	0.00
ATOM	1045	CD1	ILE	67	-1.748	-7.227	2.964	1.00	0.00
ATOM	1046	HD11	ILE	67	-1.903	-6.155	2.840	1.00	0.00
ATOM	1047	HD12	ILE	67	-2.587	-7.767	2.525	1.00	0.00
ATOM	1048	HD13	ILE	67	-1.678	-7.463	4.025	1.00	0.00
ATOM	1049	C	ILE	67	2.739	-5.507	2.269	1.00	0.00
ATOM	1050	O	ILE	67	2.769	-4.339	1.999	1.00	0.00
ATOM	1051	N	MET	68	3.691	-6.010	3.022	1.00	0.00
ATOM	1052	H	MET	68	3.662	-6.990	3.264	1.00	0.00
ATOM	1053	CA	MET	68	4.790	-5.206	3.534	1.00	0.00
ATOM	1054	HA	MET	68	4.451	-4.556	4.341	1.00	0.00
ATOM	1055	CB	MET	68	5.852	-6.136	4.076	1.00	0.00

ATOM	1056	HB2 MET	68	6.176	-6.798	3.273	1.00	0.00
ATOM	1057	HB3 MET	68	6.697	-5.537	4.416	1.00	0.00
ATOM	1058	CG MET	68	5.320	-6.968	5.236	1.00	0.00
ATOM	1059	HG2 MET	68	5.529	-6.451	6.172	1.00	0.00
ATOM	1060	HG3 MET	68	4.243	-7.093	5.122	1.00	0.00
ATOM	1061	SD MET	68	6.108	-8.596	5.266	1.00	0.00
ATOM	1062	CE MET	68	4.939	-9.459	6.334	1.00	0.00
ATOM	1063	HE1 MET	68	3.950	-9.446	5.875	1.00	0.00
ATOM	1064	HE2 MET	68	5.263	-10.490	6.469	1.00	0.00
ATOM	1065	HE3 MET	68	4.896	-8.962	7.303	1.00	0.00
ATOM	1066	C MET	68	5.414	-4.321	2.471	1.00	0.00
ATOM	1067	O MET	68	5.303	-3.103	2.617	1.00	0.00
ATOM	1068	N MET	69	5.868	-4.942	1.369	1.00	0.00
ATOM	1069	H MET	69	5.897	-5.951	1.362	1.00	0.00
ATOM	1070	CA MET	69	6.370	-4.235	0.213	1.00	0.00
ATOM	1071	HA MET	69	7.244	-3.642	0.482	1.00	0.00
ATOM	1072	CB MET	69	6.773	-5.236	-0.858	1.00	0.00
ATOM	1073	HB2 MET	69	6.043	-6.045	-0.864	1.00	0.00
ATOM	1074	HB3 MET	69	6.761	-4.729	-1.824	1.00	0.00
ATOM	1075	CG MET	69	8.153	-5.803	-0.603	1.00	0.00
ATOM	1076	HG2 MET	69	8.191	-6.221	0.402	1.00	0.00
ATOM	1077	HG3 MET	69	8.360	-6.588	-1.331	1.00	0.00

ATOM	1078	SD	MET	69	9.405	-4.506	-0.755	1.00	0.00
ATOM	1079	CE	MET	69	10.823	-5.393	-0.106	1.00	0.00
ATOM	1080	HE1	MET	69	11.014	-6.273	-0.720	1.00	0.00
ATOM	1081	HE2	MET	69	11.698	-4.742	-0.123	1.00	0.00
ATOM	1082	HE3	MET	69	10.621	-5.702	0.919	1.00	0.00
ATOM	1083	C	MET	69	5.390	-3.231	-0.388	1.00	0.00
ATOM	1084	O	MET	69	5.791	-2.203	-0.925	1.00	0.00
ATOM	1085	N	MET	70	4.099	-3.502	-0.296	1.00	0.00
ATOM	1086	H	MET	70	3.827	-4.405	0.063	1.00	0.00
ATOM	1087	CA	MET	70	3.068	-2.605	-0.731	1.00	0.00
ATOM	1088	HA	MET	70	3.114	-2.459	-1.811	1.00	0.00
ATOM	1089	CB	MET	70	1.719	-3.210	-0.379	1.00	0.00
ATOM	1090	HB2	MET	70	1.100	-3.133	-1.273	1.00	0.00
ATOM	1091	HB3	MET	70	1.898	-4.260	-0.151	1.00	0.00
ATOM	1092	CG	MET	70	1.002	-2.551	0.793	1.00	0.00
ATOM	1093	HG2	MET	70	1.758	-2.371	1.557	1.00	0.00
ATOM	1094	HG3	MET	70	0.622	-1.597	0.427	1.00	0.00
ATOM	1095	SD	MET	70	-0.349	-3.490	1.508	1.00	0.00
ATOM	1096	CE	MET	70	-1.255	-2.178	2.294	1.00	0.00
ATOM	1097	HE1	MET	70	-1.569	-1.452	1.543	1.00	0.00
ATOM	1098	HE2	MET	70	-2.134	-2.589	2.790	1.00	0.00
ATOM	1099	HE3	MET	70	-0.619	-1.686	3.030	1.00	0.00

ATOM	1100	C	MET	70	3.219	-1.229	-0.116	1.00	0.00
ATOM	1101	O	MET	70	2.883	-0.242	-0.752	1.00	0.00
ATOM	1102	N	LEU	71	3.645	-1.179	1.149	1.00	0.00
ATOM	1103	H	LEU	71	3.790	-2.050	1.639	1.00	0.00
ATOM	1104	CA	LEU	71	3.797	0.055	1.885	1.00	0.00
ATOM	1105	HA	LEU	71	3.340	0.873	1.328	1.00	0.00
ATOM	1106	CB	LEU	71	3.122	-0.042	3.253	1.00	0.00
ATOM	1107	HB2	LEU	71	3.595	-0.914	3.704	1.00	0.00
ATOM	1108	HB3	LEU	71	3.354	0.844	3.844	1.00	0.00
ATOM	1109	CG	LEU	71	1.616	-0.246	3.215	1.00	0.00
ATOM	1110	HG	LEU	71	1.399	-1.286	2.972	1.00	0.00
ATOM	1111	CD1	LEU	71	1.023	0.090	4.556	1.00	0.00
ATOM	1112	HD11	LEU	71	1.240	1.131	4.799	1.00	0.00
ATOM	1113	HD12	LEU	71	-0.056	-0.057	4.523	1.00	0.00
ATOM	1114	HD13	LEU	71	1.456	-0.558	5.317	1.00	0.00
ATOM	1115	CD2	LEU	71	0.918	0.541	2.112	1.00	0.00
ATOM	1116	HD21	LEU	71	1.311	0.236	1.142	1.00	0.00
ATOM	1117	HD22	LEU	71	-0.154	0.345	2.147	1.00	0.00
ATOM	1118	HD23	LEU	71	1.097	1.607	2.256	1.00	0.00
ATOM	1119	C	LEU	71	5.273	0.381	1.946	1.00	0.00
ATOM	1120	O	LEU	71	5.753	0.925	2.932	1.00	0.00
ATOM	1121	N	ASN	72	6.020	-0.020	0.930	1.00	0.00

ATOM	1122	H	ASN	72	5.581	-0.583	0.215	1.00	0.00
ATOM	1123	CA	ASN	72	7.430	0.270	0.804	1.00	0.00
ATOM	1124	HA	ASN	72	7.750	0.948	1.595	1.00	0.00
ATOM	1125	CB	ASN	72	8.225	-1.024	0.921	1.00	0.00
ATOM	1126	HB2	ASN	72	7.938	-1.819	0.233	1.00	0.00
ATOM	1127	HB3	ASN	72	9.238	-0.693	0.691	1.00	0.00
ATOM	1128	CG	ASN	72	8.204	-1.571	2.326	1.00	0.00
ATOM	1129	OD1	ASN	72	8.038	-2.740	2.591	1.00	0.00
ATOM	1130	ND2	ASN	72	8.543	-0.760	3.295	1.00	0.00
ATOM	1131	HD21	ASN	72	8.541	-1.090	4.249	1.00	0.00
ATOM	1132	HD22	ASN	72	8.805	0.193	3.084	1.00	0.00
ATOM	1133	C	ASN	72	7.731	0.949	-0.518	1.00	0.00
ATOM	1134	O	ASN	72	8.895	1.190	-0.827	1.00	0.00
ATOM	1135	N	GLU	73	6.689	1.200	-1.306	1.00	0.00
ATOM	1136	H	GLU	73	5.770	0.881	-1.035	1.00	0.00
ATOM	1137	CA	GLU	73	6.839	1.832	-2.582	1.00	0.00
ATOM	1138	HA	GLU	73	7.609	1.327	-3.166	1.00	0.00
ATOM	1139	CB	GLU	73	5.510	1.759	-3.354	1.00	0.00
ATOM	1140	HB2	GLU	73	4.748	1.318	-2.712	1.00	0.00
ATOM	1141	HB3	GLU	73	5.207	2.767	-3.637	1.00	0.00
ATOM	1142	CG	GLU	73	5.674	0.897	-4.622	1.00	0.00
ATOM	1143	HG2	GLU	73	6.709	0.768	-4.938	1.00	0.00



ATOM	1144	HG3	GLU	73	5.270	-0.063	-4.301	1.00	0.00
ATOM	1145	CD	GLU	73	4.846	1.432	-5.794	1.00	0.00
ATOM	1146	OE1	GLU	73	3.712	1.893	-5.528	1.00	0.00
ATOM	1147	OE2	GLU	73	5.413	1.502	-6.907	1.00	0.00
ATOM	1148	C	GLU	73	7.336	3.269	-2.426	1.00	0.00
ATOM	1149	O	GLU	73	7.461	3.797	-1.308	1.00	0.00
ATOM	1150	N	PRO	74	7.561	3.961	-3.553	1.00	0.00
ATOM	1151	CD	PRO	74	7.405	3.475	-4.916	1.00	0.00
ATOM	1152	HD2	PRO	74	6.341	3.290	-5.065	1.00	0.00
ATOM	1153	HD3	PRO	74	7.950	2.534	-4.979	1.00	0.00
ATOM	1154	CG	PRO	74	7.949	4.520	-5.863	1.00	0.00
ATOM	1155	HG2	PRO	74	7.144	4.902	-6.492	1.00	0.00
ATOM	1156	HG3	PRO	74	8.722	4.079	-6.493	1.00	0.00
ATOM	1157	CB	PRO	74	8.528	5.613	-4.978	1.00	0.00
ATOM	1158	HB2	PRO	74	8.212	6.597	-5.325	1.00	0.00
ATOM	1159	HB3	PRO	74	9.617	5.565	-4.969	1.00	0.00
ATOM	1160	CA	PRO	74	7.978	5.355	-3.564	1.00	0.00
ATOM	1161	HA	PRO	74	8.798	5.468	-2.856	1.00	0.00
ATOM	1162	C	PRO	74	6.839	6.307	-3.182	1.00	0.00
ATOM	1163	O	PRO	74	6.678	7.377	-3.769	1.00	0.00
ATOM	1164	N	MET	75	6.064	5.938	-2.170	1.00	0.00
ATOM	1165	H	MET	75	6.258	5.057	-1.717	1.00	0.00

ATOM	1166	CA	MET	75	4.956	6.719	-1.696	1.00	0.00
ATOM	1167	HA	MET	75	5.277	7.729	-1.440	1.00	0.00
ATOM	1168	CB	MET	75	3.910	6.806	-2.809	1.00	0.00
ATOM	1169	HB2	MET	75	4.408	6.731	-3.776	1.00	0.00
ATOM	1170	HB3	MET	75	3.201	5.986	-2.701	1.00	0.00
ATOM	1171	CG	MET	75	3.168	8.131	-2.723	1.00	0.00
ATOM	1172	HG2	MET	75	3.424	8.622	-1.784	1.00	0.00
ATOM	1173	HG3	MET	75	3.472	8.764	-3.558	1.00	0.00
ATOM	1174	SD	MET	75	1.373	7.875	-2.792	1.00	0.00
ATOM	1175	CE	MET	75	0.969	9.048	-4.095	1.00	0.00
ATOM	1176	HE1	MET	75	1.498	8.775	-5.008	1.00	0.00
ATOM	1177	HE2	MET	75	-0.105	9.032	-4.280	1.00	0.00
ATOM	1178	HE3	MET	75	1.269	10.050	-3.789	1.00	0.00
ATOM	1179	C	MET	75	4.350	6.075	-0.457	1.00	0.00
ATOM	1180	O	MET	75	3.144	6.124	-0.261	1.00	0.00
ATOM	1181	N	TRP	76	5.161	5.412	0.358	1.00	0.00
ATOM	1182	H	TRP	76	6.128	5.290	0.093	1.00	0.00
ATOM	1183	CA	TRP	76	4.696	4.775	1.569	1.00	0.00
ATOM	1184	HA	TRP	76	3.871	5.342	1.999	1.00	0.00
ATOM	1185	CB	TRP	76	4.207	3.366	1.252	1.00	0.00
ATOM	1186	HB2	TRP	76	4.882	2.934	0.512	1.00	0.00
ATOM	1187	HB3	TRP	76	4.196	2.739	2.143	1.00	0.00

ATOM	1188	CG	TRP	76	2.832	3.302	0.666	1.00	0.00
ATOM	1189	CD1	TRP	76	2.452	2.746	-0.501	1.00	0.00
ATOM	1190	HD1	TRP	76	3.227	2.271	-1.103	1.00	0.00
ATOM	1191	NE1	TRP	76	1.096	2.915	-0.678	1.00	0.00
ATOM	1192	HE1	TRP	76	0.597	2.552	-1.478	1.00	0.00
ATOM	1193	CE2	TRP	76	0.538	3.610	0.356	1.00	0.00
ATOM	1194	CZ2	TRP	76	-0.757	4.021	0.635	1.00	0.00
ATOM	1195	HZ2	TRP	76	-1.543	3.791	-0.084	1.00	0.00
ATOM	1196	CH2	TRP	76	-0.969	4.710	1.830	1.00	0.00
ATOM	1197	HH2	TRP	76	-1.979	5.036	2.077	1.00	0.00
ATOM	1198	CZ3	TRP	76	0.068	4.995	2.715	1.00	0.00
ATOM	1199	HZ3	TRP	76	-0.095	5.549	3.639	1.00	0.00
ATOM	1200	CE3	TRP	76	1.361	4.569	2.428	1.00	0.00
ATOM	1201	HE3	TRP	76	2.126	4.774	3.176	1.00	0.00
ATOM	1202	CD2	TRP	76	1.625	3.874	1.230	1.00	0.00
ATOM	1203	C	TRP	76	5.800	4.800	2.603	1.00	0.00
ATOM	1204	O	TRP	76	6.571	3.852	2.735	1.00	0.00
ATOM	1205	N	ILE	77	5.923	5.919	3.320	1.00	0.00
ATOM	1206	H	ILE	77	5.268	6.670	3.155	1.00	0.00
ATOM	1207	CA	ILE	77	7.025	6.152	4.254	1.00	0.00
ATOM	1208	HA	ILE	77	7.625	5.254	4.398	1.00	0.00
ATOM	1209	CB	ILE	77	7.940	7.318	3.840	1.00	0.00

ATOM	1210	HB	ILE	77	7.520	8.256	4.205	1.00	0.00
ATOM	1211	CG2	ILE	77	9.342	7.115	4.442	1.00	0.00
ATOM	1212	HG21	ILE	77	9.763	6.179	4.076	1.00	0.00
ATOM	1213	HG22	ILE	77	9.988	7.943	4.147	1.00	0.00
ATOM	1214	HG23	ILE	77	9.270	7.081	5.529	1.00	0.00
ATOM	1215	CG1	ILE	77	7.992	7.511	2.323	1.00	0.00
ATOM	1216	HG12	ILE	77	7.006	7.836	1.991	1.00	0.00
ATOM	1217	HG13	ILE	77	8.722	8.291	2.107	1.00	0.00
ATOM	1218	CD1	ILE	77	8.382	6.230	1.584	1.00	0.00
ATOM	1219	HD11	ILE	77	7.652	5.450	1.798	1.00	0.00
ATOM	1220	HD12	ILE	77	8.404	6.422	0.511	1.00	0.00
ATOM	1221	HD13	ILE	77	9.368	5.905	1.915	1.00	0.00
ATOM	1222	C	ILE	77	6.436	6.344	5.621	1.00	0.00
ATOM	1223	O	ILE	77	5.497	5.672	5.985	1.00	0.00
ATOM	1224	N	ARG	78	6.933	7.256	6.426	1.00	0.00
ATOM	1225	H	ARG	78	7.715	7.802	6.094	1.00	0.00
ATOM	1226	CA	ARG	78	6.406	7.544	7.731	1.00	0.00
ATOM	1227	HA	ARG	78	6.628	6.716	8.403	1.00	0.00
ATOM	1228	CB	ARG	78	7.018	8.810	8.303	1.00	0.00
ATOM	1229	HB2	ARG	78	7.278	9.482	7.484	1.00	0.00
ATOM	1230	HB3	ARG	78	6.290	9.296	8.953	1.00	0.00
ATOM	1231	CG	ARG	78	8.274	8.476	9.105	1.00	0.00

ATOM	1232	HG2 ARG	78	8.263	9.047	10.033	1.00	0.00
ATOM	1233	HG3 ARG	78	8.274	7.411	9.333	1.00	0.00
ATOM	1234	CD ARG	78	9.531	8.826	8.308	1.00	0.00
ATOM	1235	HD2 ARG	78	9.449	8.417	7.301	1.00	0.00
ATOM	1236	HD3 ARG	78	9.636	9.910	8.251	1.00	0.00
ATOM	1237	NE ARG	78	10.732	8.269	8.946	1.00	0.00
ATOM	1238	HE ARG	78	10.582	7.754	9.801	1.00	0.00
ATOM	1239	CZ ARG	78	11.968	8.421	8.511	1.00	0.00
ATOM	1240	NH1 ARG	78	12.212	9.085	7.411	1.00	0.00
ATOM	1241	HH11 ARG	78	11.448	9.487	6.887	1.00	0.00
ATOM	1242	HH12 ARG	78	13.164	9.193	7.090	1.00	0.00
ATOM	1243	NH2 ARG	78	12.968	7.876	9.154	1.00	0.00
ATOM	1244	HH21 ARG	78	12.793	7.336	9.988	1.00	0.00
ATOM	1245	HH22 ARG	78	13.911	7.999	8.812	1.00	0.00
ATOM	1246	C ARG	78	4.927	7.784	7.713	1.00	0.00
ATOM	1247	O ARG	78	4.324	7.365	8.673	1.00	0.00
ATOM	1248	N MET	79	4.374	8.320	6.629	1.00	0.00
ATOM	1249	H MET	79	5.003	8.628	5.901	1.00	0.00
ATOM	1250	CA MET	79	2.952	8.472	6.415	1.00	0.00
ATOM	1251	HA MET	79	2.569	9.260	7.063	1.00	0.00
ATOM	1252	CB MET	79	2.651	8.843	4.967	1.00	0.00
ATOM	1253	HB2 MET	79	1.579	8.736	4.801	1.00	0.00

ATOM	1254	HB3 MET	79	2.940	9.883	4.812	1.00	0.00
ATOM	1255	CG MET	79	3.412	7.949	3.980	1.00	0.00
ATOM	1256	HG2 MET	79	4.134	7.379	4.564	1.00	0.00
ATOM	1257	HG3 MET	79	2.681	7.269	3.543	1.00	0.00
ATOM	1258	SD MET	79	4.264	8.809	2.675	1.00	0.00
ATOM	1259	CE MET	79	3.179	8.402	1.315	1.00	0.00
ATOM	1260	HE1 MET	79	2.178	8.779	1.523	1.00	0.00
ATOM	1261	HE2 MET	79	3.556	8.860	0.399	1.00	0.00
ATOM	1262	HE3 MET	79	3.141	7.320	1.191	1.00	0.00
ATOM	1263	C MET	79	2.210	7.192	6.699	1.00	0.00
ATOM	1264	O MET	79	1.094	7.246	7.135	1.00	0.00
ATOM	1265	N ARG	80	2.825	6.024	6.581	1.00	0.00
ATOM	1266	H ARG	80	3.721	6.025	6.114	1.00	0.00
ATOM	1267	CA ARG	80	2.276	4.777	6.983	1.00	0.00
ATOM	1268	HA ARG	80	1.347	4.615	6.436	1.00	0.00
ATOM	1269	CB ARG	80	3.198	3.616	6.719	1.00	0.00
ATOM	1270	HB2 ARG	80	4.116	3.760	7.289	1.00	0.00
ATOM	1271	HB3 ARG	80	2.709	2.698	7.044	1.00	0.00
ATOM	1272	CG ARG	80	3.533	3.515	5.235	1.00	0.00
ATOM	1273	HG2 ARG	80	2.703	3.046	4.707	1.00	0.00
ATOM	1274	HG3 ARG	80	3.701	4.514	4.832	1.00	0.00
ATOM	1275	CD ARG	80	4.792	2.675	5.050	1.00	0.00

ATOM	1276	HD2	ARG	80	4.523	1.635	5.228	1.00	0.00
ATOM	1277	HD3	ARG	80	5.118	2.794	4.016	1.00	0.00
ATOM	1278	NE	ARG	80	5.901	3.030	5.934	1.00	0.00
ATOM	1279	HE	ARG	80	5.845	3.978	6.278	1.00	0.00
ATOM	1280	CZ	ARG	80	6.912	2.294	6.301	1.00	0.00
ATOM	1281	NH1	ARG	80	7.027	1.083	5.847	1.00	0.00
ATOM	1282	HH11	ARG	80	6.333	0.718	5.211	1.00	0.00
ATOM	1283	HH12	ARG	80	7.811	0.513	6.131	1.00	0.00
ATOM	1284	NH2	ARG	80	7.802	2.772	7.134	1.00	0.00
ATOM	1285	HH21	ARG	80	7.702	3.712	7.490	1.00	0.00
ATOM	1286	HH22	ARG	80	8.584	2.199	7.416	1.00	0.00
ATOM	1287	C	ARG	80	1.881	4.801	8.421	1.00	0.00
ATOM	1288	O	ARG	80	1.163	3.915	8.737	1.00	0.00
ATOM	1289	N	ASP	81	2.219	5.750	9.261	1.00	0.00
ATOM	1290	H	ASP	81	2.759	6.493	8.840	1.00	0.00
ATOM	1291	CA	ASP	81	1.889	5.853	10.668	1.00	0.00
ATOM	1292	HA	ASP	81	2.625	5.323	11.272	1.00	0.00
ATOM	1293	CB	ASP	81	1.892	7.323	11.075	1.00	0.00
ATOM	1294	HB2	ASP	81	2.690	7.813	10.515	1.00	0.00
ATOM	1295	HB3	ASP	81	0.934	7.767	10.804	1.00	0.00
ATOM	1296	CG	ASP	81	2.133	7.507	12.570	1.00	0.00
ATOM	1297	OD1	ASP	81	2.389	6.503	13.268	1.00	0.00

ATOM	1298	OD2	ASP	81	2.036	8.670	13.002	1.00	0.00
ATOM	1299	C	ASP	81	0.494	5.295	10.949	1.00	0.00
ATOM	1300	O	ASP	81	0.318	4.325	11.680	1.00	0.00
ATOM	1301	N	GLN	82	-0.485	5.781	10.175	1.00	0.00
ATOM	1302	H	GLN	82	-0.280	6.527	9.525	1.00	0.00
ATOM	1303	CA	GLN	82	-1.841	5.328	10.285	1.00	0.00
ATOM	1304	HA	GLN	82	-2.056	5.127	11.334	1.00	0.00
ATOM	1305	CB	GLN	82	-2.841	6.339	9.772	1.00	0.00
ATOM	1306	HB2	GLN	82	-2.326	7.043	9.118	1.00	0.00
ATOM	1307	HB3	GLN	82	-3.612	5.816	9.206	1.00	0.00
ATOM	1308	CG	GLN	82	-3.482	7.094	10.923	1.00	0.00
ATOM	1309	HG2	GLN	82	-4.388	7.569	10.546	1.00	0.00
ATOM	1310	HG3	GLN	82	-3.741	6.401	11.723	1.00	0.00
ATOM	1311	CD	GLN	82	-2.570	8.169	11.488	1.00	0.00
ATOM	1312	OE1	GLN	82	-2.811	9.352	11.351	1.00	0.00
ATOM	1313	NE2	GLN	82	-1.488	7.769	12.113	1.00	0.00
ATOM	1314	HE21	GLN	82	-0.853	8.451	12.504	1.00	0.00
ATOM	1315	HE22	GLN	82	-1.294	6.782	12.199	1.00	0.00
ATOM	1316	C	GLN	82	-2.047	4.044	9.583	1.00	0.00
ATOM	1317	O	GLN	82	-2.136	3.067	10.307	1.00	0.00
ATOM	1318	N	VAL	83	-2.231	4.062	8.256	1.00	0.00
ATOM	1319	H	VAL	83	-2.378	4.979	7.858	1.00	0.00



ATOM	1320	CA	VAL	83	-2.304	2.915	7.379	1.00	0.00
ATOM	1321	HA	VAL	83	-3.317	2.525	7.285	1.00	0.00
ATOM	1322	CB	VAL	83	-1.759	3.189	5.988	1.00	0.00
ATOM	1323	HB	VAL	83	-2.608	3.290	5.312	1.00	0.00
ATOM	1324	CG1	VAL	83	-0.921	4.427	5.923	1.00	0.00
ATOM	1325	HG11	VAL	83	-0.071	4.327	6.597	1.00	0.00
ATOM	1326	HG12	VAL	83	-0.560	4.570	4.904	1.00	0.00
ATOM	1327	HG13	VAL	83	-1.520	5.288	6.219	1.00	0.00
ATOM	1328	CG2	VAL	83	-0.995	2.026	5.425	1.00	0.00
ATOM	1329	HG21	VAL	83	-1.650	1.157	5.361	1.00	0.00
ATOM	1330	HG22	VAL	83	-0.629	2.279	4.429	1.00	0.00
ATOM	1331	HG23	VAL	83	-0.150	1.797	6.074	1.00	0.00
ATOM	1332	C	VAL	83	-1.583	1.725	7.968	1.00	0.00
ATOM	1333	O	VAL	83	-2.166	0.685	8.046	1.00	0.00
ATOM	1334	N	MET	84	-0.353	1.813	8.415	1.00	0.00
ATOM	1335	H	MET	84	0.108	2.688	8.208	1.00	0.00
ATOM	1336	CA	MET	84	0.386	0.803	9.130	1.00	0.00
ATOM	1337	HA	MET	84	0.814	0.089	8.427	1.00	0.00
ATOM	1338	CB	MET	84	1.513	1.440	9.921	1.00	0.00
ATOM	1339	HB2	MET	84	2.212	1.894	9.218	1.00	0.00
ATOM	1340	HB3	MET	84	1.089	2.214	10.560	1.00	0.00
ATOM	1341	CG	MET	84	2.244	0.423	10.776	1.00	0.00

ATOM	1342	HG2	MET	84	1.523	-0.031	11.454	1.00	0.00
ATOM	1343	HG3	MET	84	2.655	-0.342	10.117	1.00	0.00
ATOM	1344	SD	MET	84	3.582	1.159	11.738	1.00	0.00
ATOM	1345	CE	MET	84	2.684	2.590	12.420	1.00	0.00
ATOM	1346	HE1	MET	84	1.840	2.241	13.014	1.00	0.00
ATOM	1347	HE2	MET	84	3.355	3.174	13.050	1.00	0.00
ATOM	1348	HE3	MET	84	2.319	3.214	11.603	1.00	0.00
ATOM	1349	C	MET	84	-0.487	0.011	10.090	1.00	0.00
ATOM	1350	O	MET	84	-0.679	-1.188	9.891	1.00	0.00
ATOM	1351	N	SER	85	-1.051	0.677	11.099	1.00	0.00
ATOM	1352	H	SER	85	-0.757	1.629	11.266	1.00	0.00
ATOM	1353	CA	SER	85	-2.002	0.080	12.015	1.00	0.00
ATOM	1354	HA	SER	85	-1.739	-0.961	12.200	1.00	0.00
ATOM	1355	CB	SER	85	-1.988	0.827	13.338	1.00	0.00
ATOM	1356	HB2	SER	85	-0.962	1.053	13.628	1.00	0.00
ATOM	1357	HB3	SER	85	-2.552	1.756	13.248	1.00	0.00
ATOM	1358	OG	SER	85	-2.587	0.003	14.324	1.00	0.00
ATOM	1359	HG	SER	85	-2.586	0.462	15.167	1.00	0.00
ATOM	1360	C	SER	85	-3.422	0.030	11.435	1.00	0.00
ATOM	1361	O	SER	85	-4.412	0.135	12.146	1.00	0.00
ATOM	1362	N	MET	86	-3.551	-0.274	10.152	1.00	0.00
ATOM	1363	H	MET	86	-2.706	-0.445	9.626	1.00	0.00

ATOM	1364	CA	MET	86	-4.815	-0.360	9.462	1.00	0.00
ATOM	1365	HA	MET	86	-5.599	-0.698	10.139	1.00	0.00
ATOM	1366	CB	MET	86	-5.185	1.010	8.941	1.00	0.00
ATOM	1367	HB2	MET	86	-4.265	1.516	8.646	1.00	0.00
ATOM	1368	HB3	MET	86	-5.821	0.875	8.066	1.00	0.00
ATOM	1369	CG	MET	86	-5.914	1.849	9.970	1.00	0.00
ATOM	1370	HG2	MET	86	-5.285	1.973	10.851	1.00	0.00
ATOM	1371	HG3	MET	86	-6.143	2.828	9.547	1.00	0.00
ATOM	1372	SD	MET	86	-7.455	1.033	10.449	1.00	0.00
ATOM	1373	CE	MET	86	-7.893	2.071	11.854	1.00	0.00
ATOM	1374	HE1	MET	86	-8.012	3.103	11.521	1.00	0.00
ATOM	1375	HE2	MET	86	-8.829	1.720	12.288	1.00	0.00
ATOM	1376	HE3	MET	86	-7.103	2.021	12.603	1.00	0.00
ATOM	1377	C	MET	86	-4.776	-1.329	8.298	1.00	0.00
ATOM	1378	O	MET	86	-5.590	-2.229	8.230	1.00	0.00
ATOM	1379	N	ALA	87	-3.757	-1.292	7.464	1.00	0.00
ATOM	1380	H	ALA	87	-3.123	-0.518	7.600	1.00	0.00
ATOM	1381	CA	ALA	87	-3.505	-2.190	6.385	1.00	0.00
ATOM	1382	HA	ALA	87	-4.431	-2.450	5.872	1.00	0.00
ATOM	1383	CB	ALA	87	-2.561	-1.533	5.382	1.00	0.00
ATOM	1384	HB1	ALA	87	-1.625	-1.274	5.878	1.00	0.00
ATOM	1385	HB2	ALA	87	-2.359	-2.225	4.564	1.00	0.00

ATOM	1386	HB3	ALA	87	-3.023	-0.629	4.985	1.00	0.00
ATOM	1387	C	ALA	87	-2.929	-3.480	6.933	1.00	0.00
ATOM	1388	O	ALA	87	-2.530	-4.322	6.164	1.00	0.00
ATOM	1389	N	HIE	88	-2.806	-3.645	8.242	1.00	0.00
ATOM	1390	H	HIE	88	-2.987	-2.853	8.842	1.00	0.00
ATOM	1391	CA	HIE	88	-2.359	-4.869	8.846	1.00	0.00
ATOM	1392	HA	HIE	88	-1.830	-5.488	8.121	1.00	0.00
ATOM	1393	CB	HIE	88	-1.404	-4.524	9.980	1.00	0.00
ATOM	1394	HB2	HIE	88	-0.781	-5.388	10.208	1.00	0.00
ATOM	1395	HB3	HIE	88	-0.772	-3.696	9.658	1.00	0.00
ATOM	1396	CG	HIE	88	-2.046	-4.099	11.280	1.00	0.00
ATOM	1397	ND1	HIE	88	-1.772	-4.654	12.511	1.00	0.00
ATOM	1398	CE1	HIE	88	-2.505	-3.993	13.436	1.00	0.00
ATOM	1399	HE1	HIE	88	-2.410	-4.257	14.489	1.00	0.00
ATOM	1400	NE2	HIE	88	-3.272	-3.059	12.818	1.00	0.00
ATOM	1401	HE2	HIE	88	-3.930	-2.420	13.240	1.00	0.00
ATOM	1402	CD2	HIE	88	-2.993	-3.130	11.467	1.00	0.00
ATOM	1403	HD2	HIE	88	-3.508	-2.470	10.768	1.00	0.00
ATOM	1404	C	HIE	88	-3.546	-5.675	9.311	1.00	0.00
ATOM	1405	O	HIE	88	-3.409	-6.859	9.481	1.00	0.00
ATOM	1406	N	ASN	89	-4.677	-5.035	9.588	1.00	0.00
ATOM	1407	H	ASN	89	-4.686	-4.028	9.502	1.00	0.00

ATOM	1408	CA	ASN	89	-5.897	-5.700	9.980	1.00	0.00
ATOM	1409	HA	ASN	89	-5.686	-6.730	10.265	1.00	0.00
ATOM	1410	CB	ASN	89	-6.520	-4.983	11.170	1.00	0.00
ATOM	1411	HB2	ASN	89	-6.285	-3.919	11.123	1.00	0.00
ATOM	1412	HB3	ASN	89	-7.602	-5.116	11.162	1.00	0.00
ATOM	1413	CG	ASN	89	-5.975	-5.540	12.459	1.00	0.00
ATOM	1414	OD1	ASN	89	-6.654	-5.905	13.384	1.00	0.00
ATOM	1415	ND2	ASN	89	-4.673	-5.614	12.546	1.00	0.00
ATOM	1416	HD21	ASN	89	-4.246	-5.978	13.385	1.00	0.00
ATOM	1417	HD22	ASN	89	-4.100	-5.306	11.773	1.00	0.00
ATOM	1418	C	ASN	89	-6.899	-5.675	8.853	1.00	0.00
ATOM	1419	O	ASN	89	-7.757	-6.514	8.833	1.00	0.00
ATOM	1420	N	LEU	90	-6.795	-4.746	7.912	1.00	0.00
ATOM	1421	H	LEU	90	-6.127	-4.001	8.053	1.00	0.00
ATOM	1422	CA	LEU	90	-7.639	-4.697	6.735	1.00	0.00
ATOM	1423	HA	LEU	90	-8.688	-4.641	7.024	1.00	0.00
ATOM	1424	CB	LEU	90	-7.293	-3.453	5.906	1.00	0.00
ATOM	1425	HB2	LEU	90	-6.224	-3.291	6.045	1.00	0.00
ATOM	1426	HB3	LEU	90	-7.494	-3.663	4.855	1.00	0.00
ATOM	1427	CG	LEU	90	-8.056	-2.199	6.329	1.00	0.00
ATOM	1428	HG	LEU	90	-8.079	-2.142	7.417	1.00	0.00
ATOM	1429	CD1	LEU	90	-7.365	-0.951	5.767	1.00	0.00

ATOM	1430	HD11	LEU	90	-7.342	-1.006	4.678	1.00	0.00
ATOM	1431	HD12	LEU	90	-7.915	-0.061	6.073	1.00	0.00
ATOM	1432	HD13	LEU	90	-6.345	-0.896	6.149	1.00	0.00
ATOM	1433	CD2	LEU	90	-9.499	-2.279	5.839	1.00	0.00
ATOM	1434	HD21	LEU	90	-9.982	-3.155	6.270	1.00	0.00
ATOM	1435	HD22	LEU	90	-10.037	-1.381	6.144	1.00	0.00
ATOM	1436	HD23	LEU	90	-9.510	-2.356	4.751	1.00	0.00
ATOM	1437	C	LEU	90	-7.511	-5.978	5.908	1.00	0.00
ATOM	1438	O	LEU	90	-8.514	-6.596	5.574	1.00	0.00
ATOM	1439	N	PRO	91	-6.277	-6.401	5.581	1.00	0.00
ATOM	1440	CD	PRO	91	-5.017	-5.787	5.923	1.00	0.00
ATOM	1441	HD2	PRO	91	-4.906	-5.865	7.004	1.00	0.00
ATOM	1442	HD3	PRO	91	-5.086	-4.736	5.641	1.00	0.00
ATOM	1443	CG	PRO	91	-3.928	-6.511	5.176	1.00	0.00
ATOM	1444	HG2	PRO	91	-3.251	-6.981	5.889	1.00	0.00
ATOM	1445	HG3	PRO	91	-3.373	-5.798	4.564	1.00	0.00
ATOM	1446	CB	PRO	91	-4.616	-7.533	4.317	1.00	0.00
ATOM	1447	HB2	PRO	91	-4.117	-8.490	4.464	1.00	0.00
ATOM	1448	HB3	PRO	91	-4.618	-7.285	3.255	1.00	0.00
ATOM	1449	CA	PRO	91	-6.045	-7.608	4.836	1.00	0.00
ATOM	1450	HA	PRO	91	-6.750	-7.658	4.006	1.00	0.00
ATOM	1451	C	PRO	91	-6.232	-8.811	5.728	1.00	0.00

ATOM	1452	O	PRO	91	-6.746	-9.809	5.282	1.00	0.00
ATOM	1453	N	ILE	92	-5.856	-8.764	6.986	1.00	0.00
ATOM	1454	H	ILE	92	-5.369	-7.949	7.331	1.00	0.00
ATOM	1455	CA	ILE	92	-6.063	-9.874	7.890	1.00	0.00
ATOM	1456	HA	ILE	92	-5.704	-10.833	7.516	1.00	0.00
ATOM	1457	CB	ILE	92	-5.375	-9.555	9.211	1.00	0.00
ATOM	1458	HB	ILE	92	-5.408	-8.477	9.369	1.00	0.00
ATOM	1459	CG2	ILE	92	-6.066	-10.265	10.381	1.00	0.00
ATOM	1460	HG21	ILE	92	-6.033	-11.343	10.223	1.00	0.00
ATOM	1461	HG22	ILE	92	-5.553	-10.018	11.310	1.00	0.00
ATOM	1462	HG23	ILE	92	-7.104	-9.939	10.442	1.00	0.00
ATOM	1463	CG1	ILE	92	-3.885	-9.882	9.132	1.00	0.00
ATOM	1464	HG12	ILE	92	-3.759	-10.624	8.344	1.00	0.00
ATOM	1465	HG13	ILE	92	-3.367	-8.964	8.852	1.00	0.00
ATOM	1466	CD1	ILE	92	-3.302	-10.416	10.428	1.00	0.00
ATOM	1467	HD11	ILE	92	-3.818	-11.333	10.708	1.00	0.00
ATOM	1468	HD12	ILE	92	-2.241	-10.624	10.291	1.00	0.00
ATOM	1469	HD13	ILE	92	-3.427	-9.673	11.216	1.00	0.00
ATOM	1470	C	ILE	92	-7.539	-10.153	8.091	1.00	0.00
ATOM	1471	O	ILE	92	-7.925	-11.311	8.035	1.00	0.00
ATOM	1472	N	GLU	93	-8.340	-9.114	8.288	1.00	0.00
ATOM	1473	H	GLU	93	-7.939	-8.188	8.336	1.00	0.00

ATOM	1474	CA	GLU	93	-9.778	-9.254	8.466	1.00	0.00
ATOM	1475	HA	GLU	93	-9.980	-9.955	9.275	1.00	0.00
ATOM	1476	CB	GLU	93	-10.418	-7.904	8.815	1.00	0.00
ATOM	1477	HB2	GLU	93	-9.893	-7.117	8.272	1.00	0.00
ATOM	1478	HB3	GLU	93	-11.463	-7.922	8.505	1.00	0.00
ATOM	1479	CG	GLU	93	-10.336	-7.627	10.324	1.00	0.00
ATOM	1480	HG2	GLU	93	-9.944	-8.521	10.809	1.00	0.00
ATOM	1481	HG3	GLU	93	-9.664	-6.789	10.509	1.00	0.00
ATOM	1482	CD	GLU	93	-11.720	-7.305	10.890	1.00	0.00
ATOM	1483	OE1	GLU	93	-12.339	-6.342	10.377	1.00	0.00
ATOM	1484	OE2	GLU	93	-12.132	-8.007	11.838	1.00	0.00
ATOM	1485	C	GLU	93	-10.429	-9.804	7.199	1.00	0.00
ATOM	1486	O	GLU	93	-11.528	-10.343	7.247	1.00	0.00
ATOM	1487	N	CYX	94	-9.736	-9.683	6.063	1.00	0.00
ATOM	1488	H	CYX	94	-8.904	-9.109	6.049	1.00	0.00
ATOM	1489	CA	CYX	94	-10.175	-10.276	4.828	1.00	0.00
ATOM	1490	HA	CYX	94	-11.260	-10.379	4.822	1.00	0.00
ATOM	1491	CB	CYX	94	-9.765	-9.383	3.661	1.00	0.00
ATOM	1492	HB2	CYX	94	-8.823	-8.887	3.895	1.00	0.00
ATOM	1493	HB3	CYX	94	-9.642	-9.990	2.764	1.00	0.00
ATOM	1494	SG	CYX	94	-11.027	-8.133	3.264	1.00	0.00
ATOM	1495	C	CYX	94	-9.639	-11.683	4.663	1.00	0.00



ATOM	1496	O	CYX	94	-10.091	-12.333	3.727	1.00	0.00
ATOM	1497	N	ASN	95	-8.677	-12.108	5.497	1.00	0.00
ATOM	1498	H	ASN	95	-8.362	-11.427	6.173	1.00	0.00
ATOM	1499	CA	ASN	95	-8.032	-13.410	5.478	1.00	0.00
ATOM	1500	HA	ASN	95	-7.591	-13.626	6.451	1.00	0.00
ATOM	1501	CB	ASN	95	-9.067	-14.493	5.158	1.00	0.00
ATOM	1502	HB2	ASN	95	-10.012	-14.182	5.602	1.00	0.00
ATOM	1503	HB3	ASN	95	-9.193	-14.609	4.081	1.00	0.00
ATOM	1504	CG	ASN	95	-8.675	-15.820	5.742	1.00	0.00
ATOM	1505	OD1	ASN	95	-9.412	-16.416	6.500	1.00	0.00
ATOM	1506	ND2	ASN	95	-7.488	-16.287	5.438	1.00	0.00
ATOM	1507	HD21	ASN	95	-7.188	-17.176	5.811	1.00	0.00
ATOM	1508	HD22	ASN	95	-6.879	-15.755	4.832	1.00	0.00
ATOM	1509	C	ASN	95	-6.893	-13.382	4.440	1.00	0.00
ATOM	1510	O	ASN	95	-6.534	-14.360	3.808	1.00	0.00
ATOM	1511	N	LEU	96	-6.356	-12.228	4.123	1.00	0.00
ATOM	1512	H	LEU	96	-6.738	-11.396	4.549	1.00	0.00
ATOM	1513	CA	LEU	96	-5.333	-12.074	3.128	1.00	0.00
ATOM	1514	HA	LEU	96	-5.504	-12.785	2.320	1.00	0.00
ATOM	1515	CB	LEU	96	-5.333	-10.673	2.548	1.00	0.00
ATOM	1516	HB2	LEU	96	-4.919	-10.080	3.363	1.00	0.00
ATOM	1517	HB3	LEU	96	-4.675	-10.606	1.681	1.00	0.00

ATOM	1518	CG	LEU	96	-6.717	-10.137	2.180	1.00	0.00
ATOM	1519	HG	LEU	96	-7.366	-10.206	3.052	1.00	0.00
ATOM	1520	CD1	LEU	96	-6.629	-8.702	1.734	1.00	0.00
ATOM	1521	HD11	LEU	96	-5.980	-8.631	0.861	1.00	0.00
ATOM	1522	HD12	LEU	96	-7.624	-8.339	1.476	1.00	0.00
ATOM	1523	HD13	LEU	96	-6.219	-8.094	2.540	1.00	0.00
ATOM	1524	CD2	LEU	96	-7.418	-10.999	1.150	1.00	0.00
ATOM	1525	HD21	LEU	96	-7.543	-12.007	1.543	1.00	0.00
ATOM	1526	HD22	LEU	96	-8.396	-10.573	0.924	1.00	0.00
ATOM	1527	HD23	LEU	96	-6.820	-11.036	0.239	1.00	0.00
ATOM	1528	C	LEU	96	-4.033	-12.473	3.779	1.00	0.00
ATOM	1529	O	LEU	96	-3.480	-13.489	3.410	1.00	0.00
ATOM	1530	N	MET	97	-3.651	-11.770	4.843	1.00	0.00
ATOM	1531	H	MET	97	-4.222	-10.988	5.130	1.00	0.00
ATOM	1532	CA	MET	97	-2.423	-12.022	5.560	1.00	0.00
ATOM	1533	HA	MET	97	-1.912	-12.889	5.143	1.00	0.00
ATOM	1534	CB	MET	97	-1.508	-10.812	5.435	1.00	0.00
ATOM	1535	HB2	MET	97	-0.537	-11.077	5.852	1.00	0.00
ATOM	1536	HB3	MET	97	-1.397	-10.580	4.375	1.00	0.00
ATOM	1537	CG	MET	97	-2.055	-9.601	6.162	1.00	0.00
ATOM	1538	HG2	MET	97	-2.203	-8.806	5.430	1.00	0.00
ATOM	1539	HG3	MET	97	-3.015	-9.874	6.599	1.00	0.00

ATOM	1540	SD	MET	97	-0.952	-9.008	7.471	1.00	0.00
ATOM	1541	CE	MET	97	0.521	-8.726	6.466	1.00	0.00
ATOM	1542	HE1	MET	97	0.298	-7.992	5.691	1.00	0.00
ATOM	1543	HE2	MET	97	1.327	-8.352	7.098	1.00	0.00
ATOM	1544	HE3	MET	97	0.829	-9.662	6.000	1.00	0.00
ATOM	1545	C	MET	97	-2.652	-12.365	6.997	1.00	0.00
ATOM	1546	O	MET	97	-1.750	-12.096	7.781	1.00	0.00
ATOM	1547	N	SER	98	-3.853	-12.871	7.318	1.00	0.00
ATOM	1548	H	SER	98	-4.537	-12.971	6.581	1.00	0.00
ATOM	1549	CA	SER	98	-4.250	-13.209	8.682	1.00	0.00
ATOM	1550	HA	SER	98	-4.575	-12.306	9.200	1.00	0.00
ATOM	1551	CB	SER	98	-5.393	-14.211	8.688	1.00	0.00
ATOM	1552	HB2	SER	98	-5.667	-14.420	9.721	1.00	0.00
ATOM	1553	HB3	SER	98	-6.244	-13.771	8.168	1.00	0.00
ATOM	1554	OG	SER	98	-5.019	-15.418	8.045	1.00	0.00
ATOM	1555	HG	SER	98	-5.757	-16.031	8.062	1.00	0.00
ATOM	1556	C	SER	98	-3.088	-13.748	9.533	1.00	0.00
ATOM	1557	O	SER	98	-2.492	-13.113	10.391	1.00	0.00
ATOM	1558	N	GLN	99	-2.632	-14.934	9.218	1.00	0.00
ATOM	1559	H	GLN	99	-3.181	-15.505	8.591	1.00	0.00
ATOM	1560	CA	GLN	99	-1.424	-15.496	9.776	1.00	0.00
ATOM	1561	HA	GLN	99	-0.631	-14.755	9.881	1.00	0.00

ATOM	1562	CB	GLN	99	-1.818	-15.986	11.161	1.00	0.00
ATOM	1563	HB2	GLN	99	-2.822	-15.634	11.398	1.00	0.00
ATOM	1564	HB3	GLN	99	-1.801	-17.075	11.179	1.00	0.00
ATOM	1565	CG	GLN	99	-0.837	-15.447	12.188	1.00	0.00
ATOM	1566	HG2	GLN	99	0.010	-16.130	12.242	1.00	0.00
ATOM	1567	HG3	GLN	99	-0.487	-14.457	11.893	1.00	0.00
ATOM	1568	CD	GLN	99	-1.470	-15.347	13.565	1.00	0.00
ATOM	1569	OE1	GLN	99	-2.550	-15.828	13.858	1.00	0.00
ATOM	1570	NE2	GLN	99	-0.794	-14.672	14.467	1.00	0.00
ATOM	1571	HE21	GLN	99	-1.165	-14.571	15.401	1.00	0.00
ATOM	1572	HE22	GLN	99	0.094	-14.256	14.222	1.00	0.00
ATOM	1573	C	GLN	99	-0.855	-16.590	8.875	1.00	0.00
ATOM	1574	O	GLN	99	-0.669	-17.736	9.282	1.00	0.00
ATOM	1575	N	PRO	100	-0.618	-16.267	7.595	1.00	0.00
ATOM	1576	CD	PRO	100	-0.767	-14.971	6.963	1.00	0.00
ATOM	1577	HD2	PRO	100	-0.024	-14.305	7.402	1.00	0.00
ATOM	1578	HD3	PRO	100	-1.766	-14.605	7.198	1.00	0.00
ATOM	1579	CG	PRO	100	-0.561	-15.171	5.480	1.00	0.00
ATOM	1580	HG2	PRO	100	0.292	-14.574	5.157	1.00	0.00
ATOM	1581	HG3	PRO	100	-1.455	-14.840	4.950	1.00	0.00
ATOM	1582	CB	PRO	100	-0.317	-16.649	5.259	1.00	0.00
ATOM	1583	HB2	PRO	100	0.580	-16.767	4.651	1.00	0.00

ATOM	1584	HB3 PRO	100	-1.152	-17.156	4.776	1.00	0.00
ATOM	1585	CA PRO	100	-0.082	-17.241	6.657	1.00	0.00
ATOM	1586	HA PRO	100	-0.634	-18.175	6.759	1.00	0.00
ATOM	1587	C PRO	100	1.400	-17.492	6.938	1.00	0.00
ATOM	1588	O PRO	100	1.785	-18.612	7.255	1.00	0.00
ATOM	1589	N CYX	101	2.232	-16.467	6.762	1.00	0.00
ATOM	1590	H CYX	101	1.880	-15.593	6.397	1.00	0.00
ATOM	1591	CA CYX	101	3.647	-16.584	7.005	1.00	0.00
ATOM	1592	HA CYX	101	4.025	-17.512	6.576	1.00	0.00
ATOM	1593	CB CYX	101	4.385	-15.412	6.360	1.00	0.00
ATOM	1594	HB2 CYX	101	4.400	-14.567	7.049	1.00	0.00
ATOM	1595	HB3 CYX	101	5.408	-15.709	6.127	1.00	0.00
ATOM	1596	SG CYX	101	3.637	-14.775	4.810	1.00	0.00
ATOM	1597	C CYX	101	3.869	-16.662	8.508	1.00	0.00
ATOM	1598	O CYX	101	3.401	-15.791	9.246	1.00	0.00
ATOM	1599	N GLN	102	4.589	-17.683	8.943	1.00	0.00
ATOM	1600	H GLN	102	4.887	-18.387	8.283	1.00	0.00
ATOM	1601	CA GLN	102	4.909	-17.874	10.348	1.00	0.00
ATOM	1602	HA GLN	102	4.593	-17.004	10.923	1.00	0.00
ATOM	1603	CB GLN	102	4.187	-19.107	10.890	1.00	0.00
ATOM	1604	HB2 GLN	102	4.508	-19.981	10.323	1.00	0.00
ATOM	1605	HB3 GLN	102	4.452	-19.238	11.939	1.00	0.00

ATOM	1606	CG	GLN	102	2.669	-18.945	10.763	1.00	0.00
ATOM	1607	HG2	GLN	102	2.431	-17.892	10.915	1.00	0.00
ATOM	1608	HG3	GLN	102	2.329	-19.254	9.774	1.00	0.00
ATOM	1609	CD	GLN	102	1.936	-19.763	11.805	1.00	0.00
ATOM	1610	OE1	GLN	102	1.940	-19.460	12.985	1.00	0.00
ATOM	1611	NE2	GLN	102	1.317	-20.845	11.391	1.00	0.00
ATOM	1612	HE21	GLN	102	0.816	-21.420	12.052	1.00	0.00
ATOM	1613	HE22	GLN	102	1.346	-21.096	10.413	1.00	0.00
ATOM	1614	C	GLN	102	6.413	-17.983	10.539	1.00	0.00
ATOM	1615	O	GLN	102	7.175	-17.838	9.578	1.00	0.00
ATOM	1616	N	MET	103	6.827	-18.160	11.792	1.00	0.00
ATOM	1617	H	MET	103	6.149	-18.097	12.538	1.00	0.00
ATOM	1618	CA	MET	103	8.227	-18.360	12.145	1.00	0.00
ATOM	1619	HA	MET	103	8.891	-17.961	11.377	1.00	0.00
ATOM	1620	CB	MET	103	8.479	-17.602	13.452	1.00	0.00
ATOM	1621	HB2	MET	103	7.617	-16.969	13.662	1.00	0.00
ATOM	1622	HB3	MET	103	8.604	-18.324	14.258	1.00	0.00
ATOM	1623	CG	MET	103	9.734	-16.735	13.347	1.00	0.00
ATOM	1624	HG2	MET	103	10.068	-16.727	12.309	1.00	0.00
ATOM	1625	HG3	MET	103	9.485	-15.719	13.655	1.00	0.00
ATOM	1626	SD	MET	103	11.068	-17.366	14.397	1.00	0.00
ATOM	1627	CE	MET	103	11.385	-15.893	15.381	1.00	0.00

ATOM	1628	HE1	MET	103	10.481	-15.616	15.923	1.00	0.00
ATOM	1629	HE2	MET	103	12.186	-16.095	16.091	1.00	0.00
ATOM	1630	HE3	MET	103	11.680	-15.073	14.725	1.00	0.00
ATOM	1631	C	MET	103	8.627	-19.846	12.263	1.00	0.00
ATOM	1632	O	MET	103	7.745	-20.611	12.732	1.00	0.00
ATOM	1633	OXT	MET	103	9.799	-20.121	11.907	1.00	0.00
TER									
ATOM	1634	CI1	LIG	104	18.896	-14.108	-2.396	1.00	0.00
ATOM	1635	CI2	LIG	104	19.906	-16.805	-3.021	1.00	0.00
ATOM	1636	P1	LIG	104	17.759	-18.153	0.825	1.00	0.00
ATOM	1637	O1	LIG	104	17.279	-19.620	0.423	1.00	0.00
ATOM	1638	O2	LIG	104	19.075	-18.445	1.659	1.00	0.00
ATOM	1639	O3	LIG	104	18.288	-17.603	-0.635	1.00	0.00
ATOM	1640	O4	LIG	104	16.806	-17.241	1.473	1.00	0.00
ATOM	1641	C1	LIG	104	16.084	-19.834	-0.363	1.00	0.00
ATOM	1642	H1	LIG	104	15.922	-20.910	-0.370	1.00	0.00
ATOM	1643	H2	LIG	104	16.239	-19.473	-1.381	1.00	0.00
ATOM	1644	H3	LIG	104	15.234	-19.330	0.098	1.00	0.00
ATOM	1645	C2	LIG	104	20.136	-19.316	1.203	1.00	0.00
ATOM	1646	H4	LIG	104	20.517	-18.976	0.239	1.00	0.00
ATOM	1647	H5	LIG	104	19.769	-20.340	1.127	1.00	0.00
ATOM	1648	H6	LIG	104	20.916	-19.249	1.958	1.00	0.00

ATOM	1649	C3	LIG	104	18.275	-16.266	-0.936	1.00	0.00
ATOM	1650	H7	LIG	104	17.679	-15.624	-0.299	1.00	0.00
ATOM	1651	C4	LIG	104	18.948	-15.797	-1.985	1.00	0.00
TER									
ATOM	1652	Cl1	LIG	105	-21.281	13.694	4.827	1.00	0.00
ATOM	1653	Cl2	LIG	105	-20.821	14.356	7.662	1.00	0.00
ATOM	1654	P1	LIG	105	-22.621	18.476	6.660	1.00	0.00
ATOM	1655	O1	LIG	105	-23.385	18.827	8.016	1.00	0.00
ATOM	1656	O2	LIG	105	-21.271	19.292	6.813	1.00	0.00
ATOM	1657	O3	LIG	105	-22.211	16.907	6.948	1.00	0.00
ATOM	1658	O4	LIG	105	-23.316	18.664	5.379	1.00	0.00
ATOM	1659	C1	LIG	105	-24.693	18.285	8.307	1.00	0.00
ATOM	1660	H1	LIG	105	-25.030	18.787	9.211	1.00	0.00
ATOM	1661	H2	LIG	105	-24.621	17.210	8.482	1.00	0.00
ATOM	1662	H3	LIG	105	-25.380	18.493	7.486	1.00	0.00
ATOM	1663	C2	LIG	105	-20.438	19.250	7.995	1.00	0.00
ATOM	1664	H4	LIG	105	-20.140	18.222	8.211	1.00	0.00
ATOM	1665	H5	LIG	105	-20.975	19.676	8.843	1.00	0.00
ATOM	1666	H6	LIG	105	-19.564	19.851	7.760	1.00	0.00
ATOM	1667	C3	LIG	105	-22.046	16.017	5.918	1.00	0.00
ATOM	1668	H7	LIG	105	-22.436	16.307	4.950	1.00	0.00
ATOM	1669	C4	LIG	105	-21.452	14.843	6.121	1.00	0.00



TER

ATOM	1670	Cl1	LIG	106	12.338	21.479	6.781	1.00	0.00
ATOM	1671	Cl2	LIG	106	13.902	23.854	7.555	1.00	0.00
ATOM	1672	P1	LIG	106	15.880	23.507	3.410	1.00	0.00
ATOM	1673	O1	LIG	106	16.114	25.042	3.041	1.00	0.00
ATOM	1674	O2	LIG	106	17.307	23.066	3.940	1.00	0.00
ATOM	1675	O3	LIG	106	14.949	23.665	4.760	1.00	0.00
ATOM	1676	O4	LIG	106	15.290	22.612	2.405	1.00	0.00
ATOM	1677	C1	LIG	106	15.050	25.860	2.505	1.00	0.00
ATOM	1678	H1	LIG	106	15.513	26.802	2.220	1.00	0.00
ATOM	1679	H2	LIG	106	14.292	26.033	3.271	1.00	0.00
ATOM	1680	H3	LIG	106	14.608	25.380	1.631	1.00	0.00
ATOM	1681	C2	LIG	106	18.060	23.809	4.927	1.00	0.00
ATOM	1682	H4	LIG	106	17.475	23.926	5.840	1.00	0.00
ATOM	1683	H5	LIG	106	18.337	24.784	4.526	1.00	0.00
ATOM	1684	H6	LIG	106	18.949	23.216	5.126	1.00	0.00
ATOM	1685	C3	LIG	106	14.053	22.693	5.120	1.00	0.00
ATOM	1686	H7	LIG	106	13.797	21.957	4.369	1.00	0.00
ATOM	1687	C4	LIG	106	13.510	22.685	6.336	1.00	0.00

TER

ATOM	1688	Cl1	LIG	107	21.486	-10.672	17.327	1.00	0.00
ATOM	1689	Cl2	LIG	107	22.779	-8.035	17.081	1.00	0.00

ATOM	1690	P1	LIG	107	22.132	-7.650	21.626	1.00	0.00
ATOM	1691	O1	LIG	107	23.432	-6.834	22.063	1.00	0.00
ATOM	1692	O2	LIG	107	21.031	-6.513	21.543	1.00	0.00
ATOM	1693	O3	LIG	107	22.512	-7.996	20.060	1.00	0.00
ATOM	1694	O4	LIG	107	21.739	-8.837	22.398	1.00	0.00
ATOM	1695	C1	LIG	107	24.704	-7.492	22.262	1.00	0.00
ATOM	1696	H1	LIG	107	25.366	-6.738	22.683	1.00	0.00
ATOM	1697	H2	LIG	107	25.096	-7.842	21.306	1.00	0.00
ATOM	1698	H3	LIG	107	24.594	-8.324	22.959	1.00	0.00
ATOM	1699	C2	LIG	107	21.219	-5.266	20.835	1.00	0.00
ATOM	1700	H4	LIG	107	21.465	-5.457	19.790	1.00	0.00
ATOM	1701	H5	LIG	107	22.009	-4.684	21.311	1.00	0.00
ATOM	1702	H6	LIG	107	20.269	-4.742	20.907	1.00	0.00
ATOM	1703	C3	LIG	107	22.008	-9.108	19.438	1.00	0.00
ATOM	1704	H7	LIG	107	21.572	-9.871	20.070	1.00	0.00
ATOM	1705	C4	LIG	107	22.084	-9.242	18.115	1.00	0.00
TER									
ATOM	1706	Cl1	LIG	108	11.246	12.468	-12.877	1.00	0.00
ATOM	1707	Cl2	LIG	108	13.738	11.751	-11.476	1.00	0.00
ATOM	1708	P1	LIG	108	15.645	11.504	-15.661	1.00	0.00
ATOM	1709	O1	LIG	108	17.124	12.025	-15.367	1.00	0.00
ATOM	1710	O2	LIG	108	15.836	9.930	-15.667	1.00	0.00

ATOM	1711	O3	LIG	108	14.919	11.844	-14.222	1.00	0.00
ATOM	1712	O4	LIG	108	14.914	12.042	-16.816	1.00	0.00
ATOM	1713	C1	LIG	108	17.423	13.436	-15.274	1.00	0.00
ATOM	1714	H1	LIG	108	18.506	13.508	-15.209	1.00	0.00
ATOM	1715	H2	LIG	108	16.965	13.855	-14.377	1.00	0.00
ATOM	1716	H3	LIG	108	17.067	13.957	-16.164	1.00	0.00
ATOM	1717	C2	LIG	108	16.529	9.203	-14.625	1.00	0.00
ATOM	1718	H4	LIG	108	16.068	9.400	-13.656	1.00	0.00
ATOM	1719	H5	LIG	108	17.581	9.489	-14.611	1.00	0.00
ATOM	1720	H6	LIG	108	16.426	8.152	-14.883	1.00	0.00
ATOM	1721	C3	LIG	108	13.574	12.100	-14.150	1.00	0.00
ATOM	1722	H7	LIG	108	13.065	12.320	-15.079	1.00	0.00
ATOM	1723	C4	LIG	108	12.943	12.099	-12.977	1.00	0.00
TER									
ATOM	1724	Cl1	LIG	109	22.304	-18.542	-22.331	1.00	0.00
ATOM	1725	Cl2	LIG	109	20.576	-16.227	-21.746	1.00	0.00
ATOM	1726	P1	LIG	109	19.199	-18.596	-18.043	1.00	0.00
ATOM	1727	O1	LIG	109	18.971	-17.425	-16.984	1.00	0.00
ATOM	1728	O2	LIG	109	17.727	-18.876	-18.559	1.00	0.00
ATOM	1729	O3	LIG	109	19.930	-17.759	-19.259	1.00	0.00
ATOM	1730	O4	LIG	109	19.950	-19.792	-17.636	1.00	0.00
ATOM	1731	C1	LIG	109	20.074	-16.846	-16.250	1.00	0.00

ATOM	1732	H1	LIG	109	19.625	-16.183	-15.513	1.00	0.00
ATOM	1733	H2	LIG	109	20.713	-16.276	-16.926	1.00	0.00
ATOM	1734	H3	LIG	109	20.646	-17.628	-15.750	1.00	0.00
ATOM	1735	C2	LIG	109	16.823	-17.838	-19.004	1.00	0.00
ATOM	1736	H4	LIG	109	17.273	-17.267	-19.817	1.00	0.00
ATOM	1737	H5	LIG	109	16.574	-17.181	-18.170	1.00	0.00
ATOM	1738	H6	LIG	109	15.933	-18.355	-19.357	1.00	0.00
ATOM	1739	C3	LIG	109	20.798	-18.375	-20.123	1.00	0.00
ATOM	1740	H7	LIG	109	21.178	-19.346	-19.829	1.00	0.00
ATOM	1741	C4	LIG	109	21.168	-17.782	-21.255	1.00	0.00

TER

ATOM	1742	Cl1	LIG	110	-10.189	7.135	-13.254	1.00	0.00
ATOM	1743	Cl2	LIG	110	-7.755	5.717	-12.388	1.00	0.00
ATOM	1744	P1	LIG	110	-6.706	5.443	-16.865	1.00	0.00
ATOM	1745	O1	LIG	110	-5.116	5.569	-16.826	1.00	0.00
ATOM	1746	O2	LIG	110	-6.917	3.878	-16.992	1.00	0.00
ATOM	1747	O3	LIG	110	-7.070	5.801	-15.298	1.00	0.00
ATOM	1748	O4	LIG	110	-7.464	6.251	-17.830	1.00	0.00
ATOM	1749	C1	LIG	110	-4.463	6.854	-16.714	1.00	0.00
ATOM	1750	H1	LIG	110	-3.401	6.662	-16.849	1.00	0.00
ATOM	1751	H2	LIG	110	-4.643	7.278	-15.724	1.00	0.00
ATOM	1752	H3	LIG	110	-4.823	7.530	-17.491	1.00	0.00

ATOM	1753	C2	LIG	110	-6.262	2.908	-16.141	1.00	0.00
ATOM	1754	H4	LIG	110	-6.489	3.111	-15.093	1.00	0.00
ATOM	1755	H5	LIG	110	-5.185	2.935	-16.309	1.00	0.00
ATOM	1756	H6	LIG	110	-6.667	1.942	-16.432	1.00	0.00
ATOM	1757	C3	LIG	110	-8.276	6.358	-14.960	1.00	0.00
ATOM	1758	H7	LIG	110	-8.864	6.783	-15.764	1.00	0.00
ATOM	1759	C4	LIG	110	-8.680	6.389	-13.692	1.00	0.00

TER

ATOM	1760	Cl1	LIG	111	-13.456	-25.378	-12.460	1.00	0.00
ATOM	1761	Cl2	LIG	111	-14.972	-23.068	-13.485	1.00	0.00
ATOM	1762	P1	LIG	111	-18.720	-25.234	-11.909	1.00	0.00
ATOM	1763	O1	LIG	111	-19.622	-24.005	-11.438	1.00	0.00
ATOM	1764	O2	LIG	111	-19.329	-25.575	-13.332	1.00	0.00
ATOM	1765	O3	LIG	111	-17.301	-24.457	-12.222	1.00	0.00
ATOM	1766	O4	LIG	111	-18.558	-26.387	-11.013	1.00	0.00
ATOM	1767	C1	LIG	111	-19.412	-23.360	-10.161	1.00	0.00
ATOM	1768	H1	LIG	111	-20.238	-22.662	-10.041	1.00	0.00
ATOM	1769	H2	LIG	111	-18.464	-22.820	-10.168	1.00	0.00
ATOM	1770	H3	LIG	111	-19.426	-24.099	-9.359	1.00	0.00
ATOM	1771	C2	LIG	111	-19.570	-24.584	-14.358	1.00	0.00
ATOM	1772	H4	LIG	111	-18.647	-24.054	-14.597	1.00	0.00
ATOM	1773	H5	LIG	111	-20.335	-23.883	-14.024	1.00	0.00

ATOM	1774	H6	LIG	111	-19.919	-25.140	-15.226	1.00	0.00
ATOM	1775	C3	LIG	111	-16.099	-25.108	-12.118	1.00	0.00
ATOM	1776	H7	LIG	111	-16.094	-26.051	-11.585	1.00	0.00
ATOM	1777	C4	LIG	111	-14.990	-24.577	-12.631	1.00	0.00
TER									
ATOM	1778	Cl1	LIG	112	-7.156	21.658	19.353	1.00	0.00
ATOM	1779	Cl2	LIG	112	-5.192	19.958	20.748	1.00	0.00
ATOM	1780	P1	LIG	112	-7.642	16.389	19.173	1.00	0.00
ATOM	1781	O1	LIG	112	-6.497	15.308	18.915	1.00	0.00
ATOM	1782	O2	LIG	112	-8.215	15.943	20.581	1.00	0.00
ATOM	1783	O3	LIG	112	-6.726	17.723	19.483	1.00	0.00
ATOM	1784	O4	LIG	112	-8.657	16.617	18.135	1.00	0.00
ATOM	1785	C1	LIG	112	-5.692	15.333	17.714	1.00	0.00
ATOM	1786	H1	LIG	112	-5.099	14.421	17.733	1.00	0.00
ATOM	1787	H2	LIG	112	-5.036	16.205	17.723	1.00	0.00
ATOM	1788	H3	LIG	112	-6.332	15.345	16.830	1.00	0.00
ATOM	1789	C2	LIG	112	-7.385	15.666	21.734	1.00	0.00
ATOM	1790	H4	LIG	112	-6.769	16.534	21.973	1.00	0.00
ATOM	1791	H5	LIG	112	-6.757	14.797	21.538	1.00	0.00
ATOM	1792	H6	LIG	112	-8.075	15.460	22.549	1.00	0.00
ATOM	1793	C3	LIG	112	-7.197	18.983	19.222	1.00	0.00
ATOM	1794	H7	LIG	112	-8.066	19.060	18.580	1.00	0.00

ATOM 1795 C4 LIG 112 -6.586 20.056 19.720 1.00 0.00

TER

ATOM 1796 Cl1 LIG 113 18.468 19.675 -6.529 1.00 0.00

ATOM 1797 Cl2 LIG 113 17.233 21.912 -5.060 1.00 0.00

ATOM 1798 P1 LIG 113 15.458 23.178 -9.118 1.00 0.00

ATOM 1799 O1 LIG 113 14.046 23.772 -8.674 1.00 0.00

ATOM 1800 O2 LIG 113 16.337 24.486 -9.286 1.00 0.00

ATOM 1801 O3 LIG 113 15.955 22.504 -7.699 1.00 0.00

ATOM 1802 O4 LIG 113 15.518 22.243 -10.250 1.00 0.00

ATOM 1803 C1 LIG 113 12.915 22.911 -8.407 1.00 0.00

ATOM 1804 H1 LIG 113 12.064 23.573 -8.264 1.00 0.00

ATOM 1805 H2 LIG 113 13.094 22.332 -7.499 1.00 0.00

ATOM 1806 H3 LIG 113 12.736 22.248 -9.254 1.00 0.00

ATOM 1807 C2 LIG 113 16.416 25.532 -8.289 1.00 0.00

ATOM 1808 H4 LIG 113 16.751 25.121 -7.336 1.00 0.00

ATOM 1809 H5 LIG 113 15.442 26.010 -8.176 1.00 0.00

ATOM 1810 H6 LIG 113 17.145 26.243 -8.668 1.00 0.00

ATOM 1811 C3 LIG 113 16.807 21.430 -7.684 1.00 0.00

ATOM 1812 H7 LIG 113 16.934 20.890 -8.614 1.00 0.00

ATOM 1813 C4 LIG 113 17.422 21.064 -6.561 1.00 0.00

TER

END

**Table N:** The number of atoms present in the system of HA-Nap

ATOM	1	N	PRO	1	7.123	-2.899	8.478	1.00	0.00
ATOM	2	H2	PRO	1	7.610	-2.017	8.552	1.00	0.00
ATOM	3	H3	PRO	1	7.575	-3.751	8.776	1.00	0.00
ATOM	4	CD	PRO	1	5.857	-2.854	9.272	1.00	0.00
ATOM	5	HD2	PRO	1	5.791	-1.838	9.663	1.00	0.00
ATOM	6	HD3	PRO	1	6.002	-3.551	10.096	1.00	0.00
ATOM	7	CG	PRO	1	4.653	-3.227	8.394	1.00	0.00
ATOM	8	HG2	PRO	1	3.951	-2.393	8.369	1.00	0.00
ATOM	9	HG3	PRO	1	4.159	-4.104	8.811	1.00	0.00
ATOM	10	CB	PRO	1	5.213	-3.525	7.007	1.00	0.00
ATOM	11	HB2	PRO	1	4.662	-3.057	6.191	1.00	0.00
ATOM	12	HB3	PRO	1	5.233	-4.604	6.859	1.00	0.00
ATOM	13	CA	PRO	1	6.652	-2.973	7.051	1.00	0.00
ATOM	14	HA	PRO	1	7.245	-3.733	6.543	1.00	0.00
ATOM	15	C	PRO	1	6.792	-1.632	6.306	1.00	0.00
ATOM	16	O	PRO	1	5.820	-1.027	5.855	1.00	0.00
ATOM	17	N	TYR	2	8.036	-1.197	6.167	1.00	0.00
ATOM	18	H	TYR	2	8.798	-1.747	6.536	1.00	0.00
ATOM	19	CA	TYR	2	8.350	0.055	5.501	1.00	0.00
ATOM	20	HA	TYR	2	7.474	0.700	5.438	1.00	0.00



ATOM	21	CB	TYR	2	9.421	0.764	6.333	1.00	0.00
ATOM	22	HB2	TYR	2	9.754	1.658	5.804	1.00	0.00
ATOM	23	HB3	TYR	2	8.927	1.054	7.260	1.00	0.00
ATOM	24	CG	TYR	2	10.624	-0.114	6.652	1.00	0.00
ATOM	25	CD1	TYR	2	10.611	-0.940	7.796	1.00	0.00
ATOM	26	HD1	TYR	2	9.745	-0.937	8.457	1.00	0.00
ATOM	27	CE1	TYR	2	11.714	-1.767	8.084	1.00	0.00
ATOM	28	HE1	TYR	2	11.730	-2.357	9.000	1.00	0.00
ATOM	29	CZ	TYR	2	12.837	-1.755	7.234	1.00	0.00
ATOM	30	OH	TYR	2	13.894	-2.575	7.468	1.00	0.00
ATOM	31	HH	TYR	2	13.775	-3.127	8.243	1.00	0.00
ATOM	32	CE2	TYR	2	12.829	-0.959	6.079	1.00	0.00
ATOM	33	HE2	TYR	2	13.690	-0.980	5.410	1.00	0.00
ATOM	34	CD2	TYR	2	11.727	-0.139	5.780	1.00	0.00
ATOM	35	HD2	TYR	2	11.731	0.472	4.877	1.00	0.00
ATOM	36	C	TYR	2	8.869	-0.187	4.092	1.00	0.00
ATOM	37	O	TYR	2	8.660	0.662	3.243	1.00	0.00
ATOM	38	N	GLY	3	9.456	-1.370	3.857	1.00	0.00
ATOM	39	H	GLY	3	9.496	-2.043	4.608	1.00	0.00
ATOM	40	CA	GLY	3	10.034	-1.730	2.583	1.00	0.00
ATOM	41	HA2	GLY	3	10.373	-2.765	2.624	1.00	0.00
ATOM	42	HA3	GLY	3	9.277	-1.626	1.805	1.00	0.00

ATOM	43	C	GLY	3	11.220	-0.833	2.244	1.00	0.00
ATOM	44	O	GLY	3	11.169	0.392	2.248	1.00	0.00
ATOM	45	N	ARG	4	12.360	-1.461	1.994	1.00	0.00
ATOM	46	H	ARG	4	12.432	-2.456	2.146	1.00	0.00
ATOM	47	CA	ARG	4	13.559	-0.735	1.587	1.00	0.00
ATOM	48	HA	ARG	4	13.388	0.341	1.641	1.00	0.00
ATOM	49	CB	ARG	4	14.715	-1.095	2.526	1.00	0.00
ATOM	50	HB2	ARG	4	14.326	-1.196	3.539	1.00	0.00
ATOM	51	HB3	ARG	4	15.146	-2.043	2.205	1.00	0.00
ATOM	52	CG	ARG	4	15.799	-0.007	2.501	1.00	0.00
ATOM	53	HG2	ARG	4	15.639	0.631	1.631	1.00	0.00
ATOM	54	HG3	ARG	4	15.719	0.591	3.408	1.00	0.00
ATOM	55	CD	ARG	4	17.193	-0.633	2.424	1.00	0.00
ATOM	56	HD2	ARG	4	17.350	-1.277	3.288	1.00	0.00
ATOM	57	HD3	ARG	4	17.276	-1.223	1.511	1.00	0.00
ATOM	58	NE	ARG	4	18.237	0.402	2.412	1.00	0.00
ATOM	59	HE	ARG	4	17.920	1.350	2.266	1.00	0.00
ATOM	60	CZ	ARG	4	19.530	0.187	2.560	1.00	0.00
ATOM	61	NH1	ARG	4	19.986	-1.024	2.752	1.00	0.00
ATOM	62	HH11	ARG	4	19.344	-1.802	2.787	1.00	0.00
ATOM	63	HH12	ARG	4	20.979	-1.174	2.863	1.00	0.00
ATOM	64	NH2	ARG	4	20.378	1.179	2.532	1.00	0.00

ATOM	65	HH21	ARG	4	20.043	2.122	2.395	1.00	0.00
ATOM	66	HH22	ARG	4	21.365	0.999	2.646	1.00	0.00
ATOM	67	C	ARG	4	13.915	-1.000	0.126	1.00	0.00
ATOM	68	O	ARG	4	14.999	-0.631	-0.305	1.00	0.00
ATOM	69	N	GLY	5	13.074	-1.776	-0.561	1.00	0.00
ATOM	70	H	GLY	5	12.234	-2.114	-0.114	1.00	0.00
ATOM	71	CA	GLY	5	13.319	-2.154	-1.931	1.00	0.00
ATOM	72	HA2	GLY	5	12.493	-2.767	-2.292	1.00	0.00
ATOM	73	HA3	GLY	5	13.400	-1.257	-2.546	1.00	0.00
ATOM	74	C	GLY	5	14.605	-2.945	-2.042	1.00	0.00
ATOM	75	O	GLY	5	15.349	-2.761	-2.990	1.00	0.00
ATOM	76	N	ARG	6	14.891	-3.788	-1.042	1.00	0.00
ATOM	77	H	ARG	6	14.279	-3.802	-0.239	1.00	0.00
ATOM	78	CA	ARG	6	16.083	-4.628	-1.019	1.00	0.00
ATOM	79	HA	ARG	6	16.944	-4.052	-1.358	1.00	0.00
ATOM	80	CB	ARG	6	16.361	-5.136	0.398	1.00	0.00
ATOM	81	HB2	ARG	6	17.125	-5.911	0.345	1.00	0.00
ATOM	82	HB3	ARG	6	16.729	-4.304	0.999	1.00	0.00
ATOM	83	CG	ARG	6	15.087	-5.714	1.045	1.00	0.00
ATOM	84	HG2	ARG	6	14.637	-4.947	1.676	1.00	0.00
ATOM	85	HG3	ARG	6	14.388	-5.989	0.255	1.00	0.00
ATOM	86	CD	ARG	6	15.411	-6.945	1.891	1.00	0.00

ATOM	87	HD2 ARG	6	16.489	-7.009	2.040	1.00	0.00
ATOM	88	HD3 ARG	6	14.915	-6.861	2.858	1.00	0.00
ATOM	89	NE ARG	6	14.952	-8.178	1.231	1.00	0.00
ATOM	90	HE ARG	6	14.700	-8.093	0.256	1.00	0.00
ATOM	91	CZ ARG	6	14.870	-9.365	1.802	1.00	0.00
ATOM	92	NH1 ARG	6	15.185	-9.520	3.064	1.00	0.00
ATOM	93	HH11 ARG	6	15.493	-8.725	3.605	1.00	0.00
ATOM	94	HH12 ARG	6	15.118	-10.433	3.489	1.00	0.00
ATOM	95	NH2 ARG	6	14.451	-10.397	1.124	1.00	0.00
ATOM	96	HH21 ARG	6	14.187	-10.287	0.155	1.00	0.00
ATOM	97	HH22 ARG	6	14.392	-11.300	1.570	1.00	0.00
ATOM	98	C ARG	6	15.982	-5.795	-1.988	1.00	0.00
ATOM	99	O ARG	6	16.126	-6.937	-1.554	1.00	0.00
ATOM	100	N THR	7	15.644	-5.527	-3.233	1.00	0.00
ATOM	101	H THR	7	15.511	-4.558	-3.487	1.00	0.00
ATOM	102	CA THR	7	15.389	-6.541	-4.235	1.00	0.00
ATOM	103	HA THR	7	16.053	-7.384	-4.043	1.00	0.00
ATOM	104	CB THR	7	13.930	-7.023	-4.108	1.00	0.00
ATOM	105	HB THR	7	13.663	-7.564	-5.016	1.00	0.00
ATOM	106	CG2 THR	7	13.749	-7.943	-2.892	1.00	0.00
ATOM	107	HG21 THR	7	14.015	-7.402	-1.984	1.00	0.00
ATOM	108	HG22 THR	7	12.710	-8.265	-2.832	1.00	0.00

ATOM	109	HG23	THR	7	14.394	-8.815	-2.997	1.00	0.00
ATOM	110	OG1	THR	7	13.057	-5.924	-3.893	1.00	0.00
ATOM	111	HG1	THR	7	12.155	-6.242	-3.817	1.00	0.00
ATOM	112	C	THR	7	15.688	-5.985	-5.612	1.00	0.00
ATOM	113	O	THR	7	16.154	-4.857	-5.731	1.00	0.00
ATOM	114	N	GLU	8	15.445	-6.789	-6.637	1.00	0.00
ATOM	115	H	GLU	8	15.149	-7.738	-6.464	1.00	0.00
ATOM	116	CA	GLU	8	15.667	-6.376	-8.016	1.00	0.00
ATOM	117	HA	GLU	8	16.253	-5.457	-8.046	1.00	0.00
ATOM	118	CB	GLU	8	16.438	-7.473	-8.761	1.00	0.00
ATOM	119	HB2	GLU	8	15.983	-8.438	-8.539	1.00	0.00
ATOM	120	HB3	GLU	8	16.378	-7.282	-9.833	1.00	0.00
ATOM	121	CG	GLU	8	17.907	-7.489	-8.327	1.00	0.00
ATOM	122	HG2	GLU	8	18.035	-6.941	-7.394	1.00	0.00
ATOM	123	HG3	GLU	8	18.182	-8.533	-8.176	1.00	0.00
ATOM	124	CD	GLU	8	18.804	-6.877	-9.404	1.00	0.00
ATOM	125	OE1	GLU	8	19.110	-7.608	-10.373	1.00	0.00
ATOM	126	OE2	GLU	8	19.136	-5.679	-9.268	1.00	0.00
ATOM	127	C	GLU	8	14.345	-6.047	-8.708	1.00	0.00
ATOM	128	O	GLU	8	13.266	-6.045	-8.096	1.00	0.00
ATOM	129	N	SER	9	14.435	-5.729	-9.995	1.00	0.00
ATOM	130	H	SER	9	15.350	-5.614	-10.407	1.00	0.00

ATOM	131	CA	SER	9	13.272	-5.460	-10.819	1.00	0.00
ATOM	132	HA	SER	9	12.650	-4.709	-10.332	1.00	0.00
ATOM	133	CB	SER	9	13.676	-4.937	-12.206	1.00	0.00
ATOM	134	HB2	SER	9	13.065	-5.448	-12.950	1.00	0.00
ATOM	135	HB3	SER	9	13.467	-3.867	-12.237	1.00	0.00
ATOM	136	OG	SER	9	15.043	-5.157	-12.489	1.00	0.00
ATOM	137	HG	SER	9	15.248	-4.815	-13.363	1.00	0.00
ATOM	138	C	SER	9	12.378	-6.698	-10.958	1.00	0.00
ATOM	139	O	SER	9	12.730	-7.817	-10.589	1.00	0.00
ATOM	140	N	GLY	10	11.184	-6.505	-11.515	1.00	0.00
ATOM	141	H	GLY	10	10.896	-5.575	-11.787	1.00	0.00
ATOM	142	CA	GLY	10	10.262	-7.611	-11.750	1.00	0.00
ATOM	143	HA2	GLY	10	10.395	-7.975	-12.769	1.00	0.00
ATOM	144	HA3	GLY	10	10.482	-8.413	-11.046	1.00	0.00
ATOM	145	C	GLY	10	8.834	-7.178	-11.568	1.00	0.00
ATOM	146	O	GLY	10	8.244	-6.612	-12.478	1.00	0.00
ATOM	147	N	CYX	11	8.329	-7.281	-10.338	1.00	0.00
ATOM	148	H	CYX	11	8.856	-7.747	-9.613	1.00	0.00
ATOM	149	CA	CYX	11	7.004	-6.808	-10.024	1.00	0.00
ATOM	150	HA	CYX	11	6.286	-7.217	-10.735	1.00	0.00
ATOM	151	CB	CYX	11	6.606	-7.245	-8.624	1.00	0.00
ATOM	152	HB2	CYX	11	7.224	-6.725	-7.892	1.00	0.00

ATOM	153	HB3	CYX	11	5.557	-7.003	-8.452	1.00	0.00
ATOM	154	SG	CYX	11	6.722	-9.003	-8.271	1.00	0.00
ATOM	155	C	CYX	11	6.904	-5.284	-10.169	1.00	0.00
ATOM	156	O	CYX	11	5.817	-4.723	-10.139	1.00	0.00
ATOM	157	N	TYR	12	8.047	-4.617	-10.260	1.00	0.00
ATOM	158	H	TYR	12	8.899	-5.154	-10.184	1.00	0.00
ATOM	159	CA	TYR	12	8.152	-3.199	-10.479	1.00	0.00
ATOM	160	HA	TYR	12	7.406	-2.644	-9.910	1.00	0.00
ATOM	161	CB	TYR	12	9.535	-2.794	-9.992	1.00	0.00
ATOM	162	HB2	TYR	12	9.612	-3.124	-8.956	1.00	0.00
ATOM	163	HB3	TYR	12	10.272	-3.322	-10.597	1.00	0.00
ATOM	164	CG	TYR	12	9.794	-1.312	-10.067	1.00	0.00
ATOM	165	CD1	TYR	12	8.972	-0.420	-9.359	1.00	0.00
ATOM	166	HD1	TYR	12	8.146	-0.806	-8.763	1.00	0.00
ATOM	167	CE1	TYR	12	9.210	0.964	-9.417	1.00	0.00
ATOM	168	HE1	TYR	12	8.545	1.655	-8.900	1.00	0.00
ATOM	169	CZ	TYR	12	10.260	1.460	-10.209	1.00	0.00
ATOM	170	OH	TYR	12	10.525	2.794	-10.225	1.00	0.00
ATOM	171	HH	TYR	12	9.936	3.301	-9.662	1.00	0.00
ATOM	172	CE2	TYR	12	11.086	0.565	-10.922	1.00	0.00
ATOM	173	HE2	TYR	12	11.911	0.948	-11.524	1.00	0.00
ATOM	174	CD2	TYR	12	10.846	-0.820	-10.857	1.00	0.00

ATOM	175	HD2 TYR	12	11.476	-1.509	-11.420	1.00	0.00
ATOM	176	C TYR	12	8.019	-2.833	-11.952	1.00	0.00
ATOM	177	O TYR	12	7.356	-1.871	-12.290	1.00	0.00
ATOM	178	N GLN	13	8.634	-3.623	-12.825	1.00	0.00
ATOM	179	H GLN	13	9.178	-4.413	-12.510	1.00	0.00
ATOM	180	CA GLN	13	8.563	-3.362	-14.247	1.00	0.00
ATOM	181	HA GLN	13	8.933	-2.360	-14.468	1.00	0.00
ATOM	182	CB GLN	13	9.428	-4.377	-14.993	1.00	0.00
ATOM	183	HB2 GLN	13	10.478	-4.166	-14.790	1.00	0.00
ATOM	184	HB3 GLN	13	9.184	-5.379	-14.641	1.00	0.00
ATOM	185	CG GLN	13	9.173	-4.290	-16.503	1.00	0.00
ATOM	186	HG2 GLN	13	8.137	-4.542	-16.729	1.00	0.00
ATOM	187	HG3 GLN	13	9.369	-3.260	-16.802	1.00	0.00
ATOM	188	CD GLN	13	10.079	-5.206	-17.301	1.00	0.00
ATOM	189	OE1 GLN	13	11.050	-5.766	-16.813	1.00	0.00
ATOM	190	NE2 GLN	13	9.757	-5.419	-18.556	1.00	0.00
ATOM	191	HE21 GLN	13	10.332	-6.022	-19.127	1.00	0.00
ATOM	192	HE22 GLN	13	8.936	-4.978	-18.946	1.00	0.00
ATOM	193	C GLN	13	7.116	-3.456	-14.714	1.00	0.00
ATOM	194	O GLN	13	6.647	-2.666	-15.496	1.00	0.00
ATOM	195	N GLN	14	6.389	-4.466	-14.254	1.00	0.00
ATOM	196	H GLN	14	6.814	-5.181	-13.682	1.00	0.00



ATOM	197	CA	GLN	14	4.988	-4.611	-14.612	1.00	0.00
ATOM	198	HA	GLN	14	4.871	-4.523	-15.693	1.00	0.00
ATOM	199	CB	GLN	14	4.464	-5.980	-14.173	1.00	0.00
ATOM	200	HB2	GLN	14	3.375	-5.942	-14.152	1.00	0.00
ATOM	201	HB3	GLN	14	4.787	-6.723	-14.902	1.00	0.00
ATOM	202	CG	GLN	14	4.986	-6.362	-12.793	1.00	0.00
ATOM	203	HG2	GLN	14	5.909	-6.921	-12.946	1.00	0.00
ATOM	204	HG3	GLN	14	5.203	-5.448	-12.240	1.00	0.00
ATOM	205	CD	GLN	14	4.048	-7.199	-11.984	1.00	0.00
ATOM	206	OE1	GLN	14	3.291	-7.956	-12.537	1.00	0.00
ATOM	207	NE2	GLN	14	4.082	-7.050	-10.667	1.00	0.00
ATOM	208	HE21	GLN	14	3.465	-7.596	-10.084	1.00	0.00
ATOM	209	HE22	GLN	14	4.725	-6.390	-10.253	1.00	0.00
ATOM	210	C	GLN	14	4.133	-3.501	-14.011	1.00	0.00
ATOM	211	O	GLN	14	3.114	-3.144	-14.571	1.00	0.00
ATOM	212	N	MET	15	4.527	-2.993	-12.849	1.00	0.00
ATOM	213	H	MET	15	5.368	-3.370	-12.437	1.00	0.00
ATOM	214	CA	MET	15	3.849	-1.928	-12.162	1.00	0.00
ATOM	215	HA	MET	15	2.876	-2.278	-11.820	1.00	0.00
ATOM	216	CB	MET	15	4.645	-1.458	-10.961	1.00	0.00
ATOM	217	HB2	MET	15	5.574	-2.026	-10.916	1.00	0.00
ATOM	218	HB3	MET	15	4.874	-0.399	-11.089	1.00	0.00

ATOM	219	CG	MET	15	3.876	-1.654	-9.687	1.00	0.00
ATOM	220	HG2	MET	15	2.867	-1.259	-9.804	1.00	0.00
ATOM	221	HG3	MET	15	3.825	-2.716	-9.450	1.00	0.00
ATOM	222	SD	MET	15	4.696	-0.789	-8.347	1.00	0.00
ATOM	223	CE	MET	15	5.535	-2.167	-7.614	1.00	0.00
ATOM	224	HE1	MET	15	6.209	-2.613	-8.345	1.00	0.00
ATOM	225	HE2	MET	15	6.109	-1.827	-6.752	1.00	0.00
ATOM	226	HE3	MET	15	4.804	-2.909	-7.294	1.00	0.00
ATOM	227	C	MET	15	3.675	-0.739	-13.062	1.00	0.00
ATOM	228	O	MET	15	2.573	-0.242	-13.114	1.00	0.00
ATOM	229	N	GLU	16	4.727	-0.265	-13.721	1.00	0.00
ATOM	230	H	GLU	16	5.638	-0.667	-13.551	1.00	0.00
ATOM	231	CA	GLU	16	4.629	0.861	-14.646	1.00	0.00
ATOM	232	HA	GLU	16	4.374	1.773	-14.107	1.00	0.00
ATOM	233	CB	GLU	16	5.981	1.067	-15.346	1.00	0.00
ATOM	234	HB2	GLU	16	6.082	2.125	-15.592	1.00	0.00
ATOM	235	HB3	GLU	16	6.773	0.778	-14.655	1.00	0.00
ATOM	236	CG	GLU	16	6.092	0.231	-16.630	1.00	0.00
ATOM	237	HG2	GLU	16	5.718	-0.753	-16.350	1.00	0.00
ATOM	238	HG3	GLU	16	5.473	0.640	-17.429	1.00	0.00
ATOM	239	CD	GLU	16	7.534	0.108	-17.116	1.00	0.00
ATOM	240	OE1	GLU	16	8.377	-0.459	-16.379	1.00	0.00

ATOM	241	OE2	GLU	16	7.834	0.654	-18.198	1.00	0.00
ATOM	242	C	GLU	16	3.513	0.643	-15.677	1.00	0.00
ATOM	243	O	GLU	16	2.830	1.588	-16.062	1.00	0.00
ATOM	244	N	GLU	17	3.299	-0.622	-16.055	1.00	0.00
ATOM	245	H	GLU	17	3.879	-1.355	-15.674	1.00	0.00
ATOM	246	CA	GLU	17	2.286	-0.981	-17.015	1.00	0.00
ATOM	247	HA	GLU	17	2.283	-0.263	-17.836	1.00	0.00
ATOM	248	CB	GLU	17	2.563	-2.378	-17.586	1.00	0.00
ATOM	249	HB2	GLU	17	3.598	-2.654	-17.384	1.00	0.00
ATOM	250	HB3	GLU	17	1.896	-3.101	-17.118	1.00	0.00
ATOM	251	CG	GLU	17	2.324	-2.369	-19.099	1.00	0.00
ATOM	252	HG2	GLU	17	1.734	-3.245	-19.367	1.00	0.00
ATOM	253	HG3	GLU	17	1.771	-1.466	-19.359	1.00	0.00
ATOM	254	CD	GLU	17	3.649	-2.393	-19.865	1.00	0.00
ATOM	255	OE1	GLU	17	4.537	-1.589	-19.530	1.00	0.00
ATOM	256	OE2	GLU	17	3.760	-3.229	-20.789	1.00	0.00
ATOM	257	C	GLU	17	0.912	-0.951	-16.354	1.00	0.00
ATOM	258	O	GLU	17	-0.101	-0.712	-17.011	1.00	0.00
ATOM	259	N	ALA	18	0.852	-1.212	-15.050	1.00	0.00
ATOM	260	H	ALA	18	1.694	-1.526	-14.589	1.00	0.00
ATOM	261	CA	ALA	18	-0.360	-1.150	-14.285	1.00	0.00
ATOM	262	HA	ALA	18	-1.204	-0.797	-14.878	1.00	0.00

ATOM	263	CB	ALA	18	-0.662	-2.562	-13.798	1.00	0.00
ATOM	264	HB1	ALA	18	0.171	-2.924	-13.196	1.00	0.00
ATOM	265	HB2	ALA	18	-1.570	-2.552	-13.195	1.00	0.00
ATOM	266	HB3	ALA	18	-0.803	-3.220	-14.656	1.00	0.00
ATOM	267	C	ALA	18	-0.191	-0.139	-13.176	1.00	0.00
ATOM	268	O	ALA	18	-0.097	-0.539	-12.029	1.00	0.00
ATOM	269	N	GLU	19	-0.072	1.150	-13.469	1.00	0.00
ATOM	270	H	GLU	19	-0.017	1.406	-14.445	1.00	0.00
ATOM	271	CA	GLU	19	0.099	2.195	-12.472	1.00	0.00
ATOM	272	HA	GLU	19	0.894	1.923	-11.779	1.00	0.00
ATOM	273	CB	GLU	19	0.475	3.514	-13.153	1.00	0.00
ATOM	274	HB2	GLU	19	1.522	3.465	-13.454	1.00	0.00
ATOM	275	HB3	GLU	19	-0.150	3.640	-14.037	1.00	0.00
ATOM	276	CG	GLU	19	0.272	4.696	-12.216	1.00	0.00
ATOM	277	HG2	GLU	19	0.082	4.422	-11.179	1.00	0.00
ATOM	278	HG3	GLU	19	1.208	5.252	-12.280	1.00	0.00
ATOM	279	CD	GLU	19	-0.900	5.587	-12.742	1.00	0.00
ATOM	280	OE1	GLU	19	-1.882	5.198	-13.419	1.00	0.00
ATOM	281	OE2	GLU	19	-0.923	6.765	-12.368	1.00	0.00
ATOM	282	C	GLU	19	-1.200	2.256	-11.619	1.00	0.00
ATOM	283	O	GLU	19	-2.042	3.147	-11.602	1.00	0.00
ATOM	284	N	MET	20	-1.424	1.300	-10.763	1.00	0.00

ATOM	285	H	MET	20	-0.755	0.549	-10.670	1.00	0.00
ATOM	286	CA	MET	20	-2.616	1.259	-9.953	1.00	0.00
ATOM	287	HA	MET	20	-3.396	1.890	-10.381	1.00	0.00
ATOM	288	CB	MET	20	-3.117	-0.165	-9.908	1.00	0.00
ATOM	289	HB2	MET	20	-4.187	-0.127	-9.704	1.00	0.00
ATOM	290	HB3	MET	20	-2.950	-0.600	-10.894	1.00	0.00
ATOM	291	CG	MET	20	-2.437	-1.010	-8.865	1.00	0.00
ATOM	292	HG2	MET	20	-1.451	-0.574	-8.701	1.00	0.00
ATOM	293	HG3	MET	20	-3.029	-0.922	-7.954	1.00	0.00
ATOM	294	SD	MET	20	-2.256	-2.717	-9.277	1.00	0.00
ATOM	295	CE	MET	20	-0.987	-2.635	-10.498	1.00	0.00
ATOM	296	HE1	MET	20	-0.090	-2.195	-10.062	1.00	0.00
ATOM	297	HE2	MET	20	-0.761	-3.639	-10.857	1.00	0.00
ATOM	298	HE3	MET	20	-1.324	-2.019	-11.333	1.00	0.00
ATOM	299	C	MET	20	-2.269	1.767	-8.582	1.00	0.00
ATOM	300	O	MET	20	-3.163	2.102	-7.806	1.00	0.00
ATOM	301	N	LEU	21	-0.969	1.787	-8.265	1.00	0.00
ATOM	302	H	LEU	21	-0.297	1.406	-8.916	1.00	0.00
ATOM	303	CA	LEU	21	-0.497	2.228	-6.976	1.00	0.00
ATOM	304	HA	LEU	21	-1.248	2.031	-6.212	1.00	0.00
ATOM	305	CB	LEU	21	0.773	1.476	-6.615	1.00	0.00
ATOM	306	HB2	LEU	21	1.440	1.832	-7.401	1.00	0.00

ATOM	307	HB3 LEU	21	1.158	1.787	-5.644	1.00	0.00
ATOM	308	CG LEU	21	0.693	-0.063	-6.667	1.00	0.00
ATOM	309	HG LEU	21	1.461	-0.451	-5.998	1.00	0.00
ATOM	310	CD1 LEU	21	-0.659	-0.617	-6.261	1.00	0.00
ATOM	311	HD11 LEU	21	-1.427	-0.229	-6.931	1.00	0.00
ATOM	312	HD12 LEU	21	-0.639	-1.705	-6.323	1.00	0.00
ATOM	313	HD13 LEU	21	-0.884	-0.315	-5.239	1.00	0.00
ATOM	314	CD2 LEU	21	1.143	-0.552	-8.031	1.00	0.00
ATOM	315	HD21 LEU	21	2.171	-0.237	-8.210	1.00	0.00
ATOM	316	HD22 LEU	21	1.086	-1.640	-8.065	1.00	0.00
ATOM	317	HD23 LEU	21	0.496	-0.130	-8.801	1.00	0.00
ATOM	318	C LEU	21	-0.333	3.736	-6.980	1.00	0.00
ATOM	319	O LEU	21	0.239	4.304	-6.063	1.00	0.00
ATOM	320	N ASN	22	-0.907	4.379	-7.995	1.00	0.00
ATOM	321	H ASN	22	-1.404	3.853	-8.700	1.00	0.00
ATOM	322	CA ASN	22	-0.878	5.811	-8.108	1.00	0.00
ATOM	323	HA ASN	22	-0.087	6.219	-7.479	1.00	0.00
ATOM	324	CB ASN	22	-0.612	6.215	-9.541	1.00	0.00
ATOM	325	HB2 ASN	22	0.334	5.954	-10.015	1.00	0.00
ATOM	326	HB3 ASN	22	-1.416	5.636	-9.994	1.00	0.00
ATOM	327	CG ASN	22	-0.885	7.698	-9.781	1.00	0.00
ATOM	328	OD1 ASN	22	-1.972	8.133	-10.145	1.00	0.00

ATOM	329	ND2	ASN	22	0.023	8.511	-9.291	1.00	0.00
ATOM	330	HD21	ASN	22	-0.082	9.509	-9.407	1.00	0.00
ATOM	331	HD22	ASN	22	0.822	8.135	-8.802	1.00	0.00
ATOM	332	C	ASN	22	-2.223	6.373	-7.714	1.00	0.00
ATOM	333	O	ASN	22	-2.277	7.390	-7.051	1.00	0.00
ATOM	334	N	HIE	23	-3.321	5.696	-8.062	1.00	0.00
ATOM	335	H	HIE	23	-3.221	4.842	-8.591	1.00	0.00
ATOM	336	CA	HIE	23	-4.657	6.158	-7.749	1.00	0.00
ATOM	337	HA	HIE	23	-4.763	7.212	-8.008	1.00	0.00
ATOM	338	CB	HIE	23	-5.673	5.355	-8.552	1.00	0.00
ATOM	339	HB2	HIE	23	-5.500	4.286	-8.434	1.00	0.00
ATOM	340	HB3	HIE	23	-6.680	5.600	-8.214	1.00	0.00
ATOM	341	CG	HIE	23	-5.636	5.636	-10.027	1.00	0.00
ATOM	342	ND1	HIE	23	-6.595	6.351	-10.718	1.00	0.00
ATOM	343	CE1	HIE	23	-6.226	6.385	-12.019	1.00	0.00
ATOM	344	HE1	HIE	23	-6.847	6.908	-12.746	1.00	0.00
ATOM	345	NE2	HIE	23	-5.062	5.706	-12.169	1.00	0.00
ATOM	346	HE2	HIE	23	-4.549	5.562	-13.028	1.00	0.00
ATOM	347	CD2	HIE	23	-4.680	5.232	-10.927	1.00	0.00
ATOM	348	HD2	HIE	23	-3.761	4.655	-10.823	1.00	0.00
ATOM	349	C	HIE	23	-4.899	6.015	-6.260	1.00	0.00
ATOM	350	O	HIE	23	-5.156	7.022	-5.605	1.00	0.00

ATOM	351	N	CYX	24	-4.831	4.777	-5.746	1.00	0.00
ATOM	352	H	CYX	24	-4.701	3.980	-6.353	1.00	0.00
ATOM	353	CA	CYX	24	-4.974	4.540	-4.315	1.00	0.00
ATOM	354	HA	CYX	24	-5.973	4.838	-3.997	1.00	0.00
ATOM	355	CB	CYX	24	-4.772	3.066	-3.974	1.00	0.00
ATOM	356	HB2	CYX	24	-4.362	2.546	-4.840	1.00	0.00
ATOM	357	HB3	CYX	24	-4.080	2.978	-3.137	1.00	0.00
ATOM	358	SG	CYX	24	-6.271	2.197	-3.512	1.00	0.00
ATOM	359	C	CYX	24	-3.965	5.383	-3.547	1.00	0.00
ATOM	360	O	CYX	24	-4.289	5.816	-2.463	1.00	0.00
ATOM	361	N	GLY	25	-2.822	5.710	-4.153	1.00	0.00
ATOM	362	H	GLY	25	-2.651	5.337	-5.076	1.00	0.00
ATOM	363	CA	GLY	25	-1.823	6.562	-3.566	1.00	0.00
ATOM	364	HA2	GLY	25	-1.633	6.233	-2.545	1.00	0.00
ATOM	365	HA3	GLY	25	-0.905	6.484	-4.149	1.00	0.00
ATOM	366	C	GLY	25	-2.268	8.003	-3.542	1.00	0.00
ATOM	367	O	GLY	25	-2.232	8.616	-2.492	1.00	0.00
ATOM	368	N	MET	26	-2.807	8.521	-4.637	1.00	0.00
ATOM	369	H	MET	26	-2.938	7.895	-5.419	1.00	0.00
ATOM	370	CA	MET	26	-3.252	9.885	-4.772	1.00	0.00
ATOM	371	HA	MET	26	-2.401	10.560	-4.672	1.00	0.00
ATOM	372	CB	MET	26	-3.897	10.113	-6.136	1.00	0.00



ATOM	373	HB2 MET	26	-3.829	9.192	-6.714	1.00	0.00
ATOM	374	HB3 MET	26	-4.945	10.373	-5.989	1.00	0.00
ATOM	375	CG MET	26	-3.198	11.235	-6.888	1.00	0.00
ATOM	376	HG2 MET	26	-3.808	12.138	-6.841	1.00	0.00
ATOM	377	HG3 MET	26	-2.228	11.428	-6.430	1.00	0.00
ATOM	378	SD MET	26	-2.957	10.775	-8.610	1.00	0.00
ATOM	379	CE MET	26	-1.621	11.910	-9.040	1.00	0.00
ATOM	380	HE1 MET	26	-0.759	11.716	-8.402	1.00	0.00
ATOM	381	HE2 MET	26	-1.340	11.764	-10.083	1.00	0.00
ATOM	382	HE3 MET	26	-1.955	12.938	-8.896	1.00	0.00
ATOM	383	C MET	26	-4.298	10.190	-3.745	1.00	0.00
ATOM	384	O MET	26	-4.217	11.233	-3.141	1.00	0.00
ATOM	385	N TYR	27	-5.306	9.342	-3.579	1.00	0.00
ATOM	386	H TYR	27	-5.358	8.537	-4.186	1.00	0.00
ATOM	387	CA TYR	27	-6.331	9.506	-2.560	1.00	0.00
ATOM	388	HA TYR	27	-7.051	10.278	-2.833	1.00	0.00
ATOM	389	CB TYR	27	-7.061	8.171	-2.461	1.00	0.00
ATOM	390	HB2 TYR	27	-7.496	7.980	-3.442	1.00	0.00
ATOM	391	HB3 TYR	27	-6.318	7.405	-2.238	1.00	0.00
ATOM	392	CG TYR	27	-8.149	8.138	-1.413	1.00	0.00
ATOM	393	CD1 TYR	27	-9.298	8.929	-1.580	1.00	0.00
ATOM	394	HD1 TYR	27	-9.403	9.561	-2.463	1.00	0.00

ATOM	395	CE1 TYR	27	-10.314	8.906	-0.607	1.00	0.00
ATOM	396	HE1 TYR	27	-11.217	9.500	-0.747	1.00	0.00
ATOM	397	CZ TYR	27	-10.179	8.083	0.531	1.00	0.00
ATOM	398	OH TYR	27	-11.143	8.069	1.490	1.00	0.00
ATOM	399	HH TYR	27	-11.875	8.658	1.294	1.00	0.00
ATOM	400	CE2 TYR	27	-9.024	7.299	0.699	1.00	0.00
ATOM	401	HE2 TYR	27	-8.919	6.668	1.581	1.00	0.00
ATOM	402	CD2 TYR	27	-8.005	7.329	-0.270	1.00	0.00
ATOM	403	HD2 TYR	27	-7.106	6.727	-0.135	1.00	0.00
ATOM	404	C TYR	27	-5.754	9.855	-1.192	1.00	0.00
ATOM	405	O TYR	27	-6.294	10.693	-0.478	1.00	0.00
ATOM	406	N LEU	28	-4.598	9.278	-0.883	1.00	0.00
ATOM	407	H LEU	28	-4.197	8.616	-1.532	1.00	0.00
ATOM	408	CA LEU	28	-3.918	9.507	0.369	1.00	0.00
ATOM	409	HA LEU	28	-4.640	9.804	1.130	1.00	0.00
ATOM	410	CB LEU	28	-3.210	8.244	0.836	1.00	0.00
ATOM	411	HB2 LEU	28	-2.257	8.311	0.310	1.00	0.00
ATOM	412	HB3 LEU	28	-3.035	8.286	1.911	1.00	0.00
ATOM	413	CG LEU	28	-3.901	6.915	0.480	1.00	0.00
ATOM	414	HG LEU	28	-4.601	7.098	-0.336	1.00	0.00
ATOM	415	CD1 LEU	28	-2.894	5.858	0.056	1.00	0.00
ATOM	416	HD11 LEU	28	-2.194	5.675	0.871	1.00	0.00

ATOM	417	HD12	LEU	28	-3.417	4.934	-0.188	1.00	0.00
ATOM	418	HD13	LEU	28	-2.347	6.207	-0.820	1.00	0.00
ATOM	419	CD2	LEU	28	-4.764	6.442	1.612	1.00	0.00
ATOM	420	HD21	LEU	28	-5.529	7.190	1.823	1.00	0.00
ATOM	421	HD22	LEU	28	-5.242	5.502	1.337	1.00	0.00
ATOM	422	HD23	LEU	28	-4.149	6.291	2.499	1.00	0.00
ATOM	423	C	LEU	28	-2.941	10.660	0.211	1.00	0.00
ATOM	424	O	LEU	28	-2.725	11.394	1.158	1.00	0.00
ATOM	425	N	MET	29	-2.451	10.918	-0.998	1.00	0.00
ATOM	426	H	MET	29	-2.643	10.211	-1.693	1.00	0.00
ATOM	427	CA	MET	29	-1.613	12.033	-1.371	1.00	0.00
ATOM	428	HA	MET	29	-0.971	12.320	-0.538	1.00	0.00
ATOM	429	CB	MET	29	-0.732	11.635	-2.550	1.00	0.00
ATOM	430	HB2	MET	29	-0.934	10.594	-2.802	1.00	0.00
ATOM	431	HB3	MET	29	-0.980	12.269	-3.402	1.00	0.00
ATOM	432	CG	MET	29	0.739	11.797	-2.210	1.00	0.00
ATOM	433	HG2	MET	29	0.914	11.393	-1.214	1.00	0.00
ATOM	434	HG3	MET	29	1.329	11.239	-2.937	1.00	0.00
ATOM	435	SD	MET	29	1.239	13.521	-2.243	1.00	0.00
ATOM	436	CE	MET	29	1.234	13.769	-4.028	1.00	0.00
ATOM	437	HE1	MET	29	0.235	13.580	-4.419	1.00	0.00
ATOM	438	HE2	MET	29	1.523	14.796	-4.254	1.00	0.00

ATOM	439	HE3	MET	29	1.942	13.083	-4.493	1.00	0.00
ATOM	440	C	MET	29	-2.401	13.304	-1.670	1.00	0.00
ATOM	441	O	MET	29	-1.867	14.295	-2.155	1.00	0.00
ATOM	442	N	LYS	30	-3.709	13.287	-1.443	1.00	0.00
ATOM	443	H	LYS	30	-4.132	12.428	-1.124	1.00	0.00
ATOM	444	CA	LYS	30	-4.569	14.417	-1.709	1.00	0.00
ATOM	445	HA	LYS	30	-4.227	14.953	-2.595	1.00	0.00
ATOM	446	CB	LYS	30	-5.999	13.923	-1.957	1.00	0.00
ATOM	447	HB2	LYS	30	-6.068	12.869	-1.691	1.00	0.00
ATOM	448	HB3	LYS	30	-6.691	14.499	-1.343	1.00	0.00
ATOM	449	CG	LYS	30	-6.360	14.100	-3.437	1.00	0.00
ATOM	450	HG2	LYS	30	-5.449	14.057	-4.035	1.00	0.00
ATOM	451	HG3	LYS	30	-7.031	13.297	-3.740	1.00	0.00
ATOM	452	CD	LYS	30	-7.050	15.451	-3.655	1.00	0.00
ATOM	453	HD2	LYS	30	-7.958	15.275	-4.231	1.00	0.00
ATOM	454	HD3	LYS	30	-7.313	15.856	-2.678	1.00	0.00
ATOM	455	CE	LYS	30	-6.165	16.447	-4.395	1.00	0.00
ATOM	456	HE2	LYS	30	-6.589	17.446	-4.287	1.00	0.00
ATOM	457	HE3	LYS	30	-5.167	16.427	-3.957	1.00	0.00
ATOM	458	NZ	LYS	30	-6.079	16.100	-5.837	1.00	0.00
ATOM	459	HZ1	LYS	30	-7.003	16.119	-6.244	1.00	0.00
ATOM	460	HZ2	LYS	30	-5.489	16.770	-6.310	1.00	0.00

ATOM	461	HZ3	LYS	30	-5.686	15.176	-5.938	1.00	0.00
ATOM	462	C	LYS	30	-4.470	15.384	-0.552	1.00	0.00
ATOM	463	O	LYS	30	-4.775	16.548	-0.763	1.00	0.00
ATOM	464	N	ASN	31	-4.080	14.884	0.624	1.00	0.00
ATOM	465	H	ASN	31	-3.952	13.887	0.716	1.00	0.00
ATOM	466	CA	ASN	31	-3.843	15.721	1.790	1.00	0.00
ATOM	467	HA	ASN	31	-4.258	16.718	1.642	1.00	0.00
ATOM	468	CB	ASN	31	-4.533	15.077	2.995	1.00	0.00
ATOM	469	HB2	ASN	31	-4.513	13.990	2.930	1.00	0.00
ATOM	470	HB3	ASN	31	-3.997	15.398	3.888	1.00	0.00
ATOM	471	CG	ASN	31	-5.969	15.527	3.107	1.00	0.00
ATOM	472	OD1	ASN	31	-6.372	16.243	3.998	1.00	0.00
ATOM	473	ND2	ASN	31	-6.772	15.139	2.145	1.00	0.00
ATOM	474	HD21	ASN	31	-7.745	15.409	2.164	1.00	0.00
ATOM	475	HD22	ASN	31	-6.413	14.573	1.389	1.00	0.00
ATOM	476	C	ASN	31	-2.352	15.874	2.079	1.00	0.00
ATOM	477	O	ASN	31	-1.988	16.623	2.974	1.00	0.00
ATOM	478	N	LEU	32	-1.527	15.121	1.350	1.00	0.00
ATOM	479	H	LEU	32	-1.899	14.443	0.701	1.00	0.00
ATOM	480	CA	LEU	32	-0.106	15.189	1.521	1.00	0.00
ATOM	481	HA	LEU	32	0.131	15.429	2.557	1.00	0.00
ATOM	482	CB	LEU	32	0.537	13.853	1.171	1.00	0.00

ATOM	483	HB2 LEU	32	0.194	13.620	0.162	1.00	0.00
ATOM	484	HB3 LEU	32	1.623	13.953	1.170	1.00	0.00
ATOM	485	CG LEU	32	0.131	12.731	2.117	1.00	0.00
ATOM	486	HG LEU	32	-0.938	12.803	2.314	1.00	0.00
ATOM	487	CD1 LEU	32	0.442	11.379	1.500	1.00	0.00
ATOM	488	HD11 LEU	32	1.512	11.307	1.302	1.00	0.00
ATOM	489	HD12 LEU	32	0.146	10.588	2.188	1.00	0.00
ATOM	490	HD13 LEU	32	-0.108	11.271	0.565	1.00	0.00
ATOM	491	CD2 LEU	32	0.836	12.891	3.451	1.00	0.00
ATOM	492	HD21 LEU	32	0.563	13.849	3.894	1.00	0.00
ATOM	493	HD22 LEU	32	0.538	12.084	4.119	1.00	0.00
ATOM	494	HD23 LEU	32	1.915	12.857	3.298	1.00	0.00
ATOM	495	C LEU	32	0.454	16.314	0.694	1.00	0.00
ATOM	496	O LEU	32	1.515	16.744	1.098	1.00	0.00
ATOM	497	N GLY	33	-0.259	16.778	-0.359	1.00	0.00
ATOM	498	H GLY	33	-1.143	16.324	-0.539	1.00	0.00
ATOM	499	CA GLY	33	0.149	17.865	-1.237	1.00	0.00
ATOM	500	HA2 GLY	33	-0.374	17.765	-2.189	1.00	0.00
ATOM	501	HA3 GLY	33	-0.121	18.814	-0.773	1.00	0.00
ATOM	502	C GLY	33	1.652	17.849	-1.493	1.00	0.00
ATOM	503	O GLY	33	2.432	18.531	-0.837	1.00	0.00
ATOM	504	N GLU	34	2.058	17.104	-2.513	1.00	0.00

ATOM	505	H	GLU	34	1.401	16.566	-3.059	1.00	0.00
ATOM	506	CA	GLU	34	3.474	16.983	-2.823	1.00	0.00
ATOM	507	HA	GLU	34	4.052	16.984	-1.899	1.00	0.00
ATOM	508	CB	GLU	34	3.759	15.683	-3.576	1.00	0.00
ATOM	509	HB2	GLU	34	3.452	14.843	-2.954	1.00	0.00
ATOM	510	HB3	GLU	34	3.181	15.680	-4.501	1.00	0.00
ATOM	511	CG	GLU	34	5.248	15.556	-3.905	1.00	0.00
ATOM	512	HG2	GLU	34	5.393	14.557	-4.315	1.00	0.00
ATOM	513	HG3	GLU	34	5.524	16.299	-4.654	1.00	0.00
ATOM	514	CD	GLU	34	6.127	15.731	-2.666	1.00	0.00
ATOM	515	OE1	GLU	34	5.643	15.476	-1.546	1.00	0.00
ATOM	516	OE2	GLU	34	7.285	16.159	-2.831	1.00	0.00
ATOM	517	C	GLU	34	3.951	18.192	-3.620	1.00	0.00
ATOM	518	O	GLU	34	4.166	18.118	-4.832	1.00	0.00
ATOM	519	N	ARG	35	3.960	19.363	-2.987	1.00	0.00
ATOM	520	H	ARG	35	3.628	19.413	-2.035	1.00	0.00
ATOM	521	CA	ARG	35	4.400	20.588	-3.626	1.00	0.00
ATOM	522	HA	ARG	35	5.421	20.471	-3.989	1.00	0.00
ATOM	523	CB	ARG	35	3.488	20.925	-4.822	1.00	0.00
ATOM	524	HB2	ARG	35	3.195	20.000	-5.317	1.00	0.00
ATOM	525	HB3	ARG	35	2.599	21.439	-4.457	1.00	0.00
ATOM	526	CG	ARG	35	4.220	21.821	-5.814	1.00	0.00

ATOM	527	HG2	ARG	35	3.603	22.698	-6.015	1.00	0.00
ATOM	528	HG3	ARG	35	5.164	22.136	-5.370	1.00	0.00
ATOM	529	CD	ARG	35	4.496	21.079	-7.128	1.00	0.00
ATOM	530	HD2	ARG	35	4.507	20.005	-6.943	1.00	0.00
ATOM	531	HD3	ARG	35	3.714	21.316	-7.850	1.00	0.00
ATOM	532	NE	ARG	35	5.795	21.472	-7.696	1.00	0.00
ATOM	533	HE	ARG	35	6.425	21.955	-7.072	1.00	0.00
ATOM	534	CZ	ARG	35	6.207	21.198	-8.917	1.00	0.00
ATOM	535	NH1	ARG	35	5.430	20.574	-9.767	1.00	0.00
ATOM	536	HH11	ARG	35	4.500	20.297	-9.487	1.00	0.00
ATOM	537	HH12	ARG	35	5.765	20.374	-10.699	1.00	0.00
ATOM	538	NH2	ARG	35	7.385	21.598	-9.318	1.00	0.00
ATOM	539	HH21	ARG	35	7.980	22.119	-8.689	1.00	0.00
ATOM	540	HH22	ARG	35	7.695	21.385	-10.256	1.00	0.00
ATOM	541	C	ARG	35	4.380	21.710	-2.612	1.00	0.00
ATOM	542	O	ARG	35	5.433	22.225	-2.276	1.00	0.00
ATOM	543	N	SER	36	3.175	22.141	-2.228	1.00	0.00
ATOM	544	H	SER	36	2.357	21.709	-2.633	1.00	0.00
ATOM	545	CA	SER	36	2.983	23.217	-1.269	1.00	0.00
ATOM	546	HA	SER	36	3.498	22.989	-0.336	1.00	0.00
ATOM	547	CB	SER	36	3.557	24.517	-1.839	1.00	0.00
ATOM	548	HB2	SER	36	4.635	24.405	-1.954	1.00	0.00



ATOM	549	HB3	SER	36	3.106	24.704	-2.814	1.00	0.00
ATOM	550	OG	SER	36	3.288	25.598	-0.985	1.00	0.00
ATOM	551	HG	SER	36	3.656	26.402	-1.361	1.00	0.00
ATOM	552	C	SER	36	1.499	23.385	-0.977	1.00	0.00
ATOM	553	O	SER	36	1.050	23.166	0.141	1.00	0.00
ATOM	554	N	GLN	37	0.717	23.722	-2.009	1.00	0.00
ATOM	555	H	GLN	37	1.132	23.891	-2.915	1.00	0.00
ATOM	556	CA	GLN	37	-0.719	23.920	-1.860	1.00	0.00
ATOM	557	HA	GLN	37	-1.154	23.098	-1.293	1.00	0.00
ATOM	558	CB	GLN	37	-0.989	25.226	-1.112	1.00	0.00
ATOM	559	HB2	GLN	37	-0.265	25.340	-0.305	1.00	0.00
ATOM	560	HB3	GLN	37	-0.898	26.066	-1.802	1.00	0.00
ATOM	561	CG	GLN	37	-2.403	25.197	-0.528	1.00	0.00
ATOM	562	HG2	GLN	37	-3.132	25.366	-1.321	1.00	0.00
ATOM	563	HG3	GLN	37	-2.570	24.216	-0.084	1.00	0.00
ATOM	564	CD	GLN	37	-2.599	26.256	0.545	1.00	0.00
ATOM	565	OE1	GLN	37	-1.697	26.946	0.981	1.00	0.00
ATOM	566	NE2	GLN	37	-3.822	26.425	0.995	1.00	0.00
ATOM	567	HE21	GLN	37	-4.003	27.117	1.708	1.00	0.00
ATOM	568	HE22	GLN	37	-4.575	25.863	0.625	1.00	0.00
ATOM	569	C	GLN	37	-1.401	23.915	-3.220	1.00	0.00
ATOM	570	O	GLN	37	-1.788	24.942	-3.772	1.00	0.00

ATOM	571	N	VAL	38	-1.420	22.744	-3.845	1.00	0.00
ATOM	572	H	VAL	38	-0.910	21.956	-3.473	1.00	0.00
ATOM	573	CA	VAL	38	-2.076	22.594	-5.136	1.00	0.00
ATOM	574	HA	VAL	38	-1.863	23.432	-5.801	1.00	0.00
ATOM	575	CB	VAL	38	-1.612	21.303	-5.813	1.00	0.00
ATOM	576	HB	VAL	38	-2.139	21.178	-6.759	1.00	0.00
ATOM	577	CG1	VAL	38	-0.102	21.379	-6.076	1.00	0.00
ATOM	578	HG11	VAL	38	0.426	21.504	-5.131	1.00	0.00
ATOM	579	HG12	VAL	38	0.230	20.460	-6.559	1.00	0.00
ATOM	580	HG13	VAL	38	0.112	22.228	-6.726	1.00	0.00
ATOM	581	CG2	VAL	38	-1.939	20.066	-4.968	1.00	0.00
ATOM	582	HG21	VAL	38	-3.016	20.004	-4.817	1.00	0.00
ATOM	583	HG22	VAL	38	-1.593	19.171	-5.485	1.00	0.00
ATOM	584	HG23	VAL	38	-1.440	20.144	-4.002	1.00	0.00
ATOM	585	C	VAL	38	-3.587	22.665	-4.983	1.00	0.00
ATOM	586	O	VAL	38	-4.091	22.686	-3.859	1.00	0.00
ATOM	587	N	SER	39	-4.298	22.673	-6.116	1.00	0.00
ATOM	588	H	SER	39	-3.821	22.726	-7.005	1.00	0.00
ATOM	589	CA	SER	39	-5.750	22.697	-6.112	1.00	0.00
ATOM	590	HA	SER	39	-6.099	23.650	-5.714	1.00	0.00
ATOM	591	CB	SER	39	-6.305	22.527	-7.541	1.00	0.00
ATOM	592	HB2	SER	39	-7.139	23.219	-7.661	1.00	0.00

ATOM	593	HB3	SER	39	-5.512	22.790	-8.242	1.00	0.00
ATOM	594	OG	SER	39	-6.747	21.202	-7.802	1.00	0.00
ATOM	595	HG	SER	39	-7.082	21.148	-8.700	1.00	0.00
ATOM	596	C	SER	39	-6.328	21.631	-5.168	1.00	0.00
ATOM	597	O	SER	39	-5.693	20.622	-4.821	1.00	0.00
ATOM	598	N	PRO	40	-7.617	21.771	-4.854	1.00	0.00
ATOM	599	CD	PRO	40	-8.516	22.821	-5.304	1.00	0.00
ATOM	600	HD2	PRO	40	-8.661	22.700	-6.378	1.00	0.00
ATOM	601	HD3	PRO	40	-8.035	23.780	-5.110	1.00	0.00
ATOM	602	CG	PRO	40	-9.810	22.649	-4.514	1.00	0.00
ATOM	603	HG2	PRO	40	-10.621	22.416	-5.204	1.00	0.00
ATOM	604	HG3	PRO	40	-10.035	23.579	-3.992	1.00	0.00
ATOM	605	CB	PRO	40	-9.574	21.511	-3.525	1.00	0.00
ATOM	606	HB2	PRO	40	-10.409	20.812	-3.553	1.00	0.00
ATOM	607	HB3	PRO	40	-9.443	21.880	-2.508	1.00	0.00
ATOM	608	CA	PRO	40	-8.291	20.811	-3.998	1.00	0.00
ATOM	609	HA	PRO	40	-7.659	20.619	-3.132	1.00	0.00
ATOM	610	C	PRO	40	-8.564	19.495	-4.732	1.00	0.00
ATOM	611	O	PRO	40	-8.003	19.165	-5.784	1.00	0.00
ATOM	612	N	ARG	41	-9.421	18.663	-4.147	1.00	0.00
ATOM	613	H	ARG	41	-9.757	18.885	-3.221	1.00	0.00
ATOM	614	CA	ARG	41	-9.842	17.425	-4.747	1.00	0.00

ATOM	615	HA	ARG	41	-8.995	16.948	-5.240	1.00	0.00
ATOM	616	CB	ARG	41	-10.391	16.471	-3.683	1.00	0.00
ATOM	617	HB2	ARG	41	-9.764	16.532	-2.794	1.00	0.00
ATOM	618	HB3	ARG	41	-11.409	16.767	-3.431	1.00	0.00
ATOM	619	CG	ARG	41	-10.393	15.025	-4.211	1.00	0.00
ATOM	620	HG2	ARG	41	-9.811	15.005	-5.133	1.00	0.00
ATOM	621	HG3	ARG	41	-9.911	14.395	-3.464	1.00	0.00
ATOM	622	CD	ARG	41	-11.800	14.502	-4.487	1.00	0.00
ATOM	623	HD2	ARG	41	-12.527	15.294	-4.305	1.00	0.00
ATOM	624	HD3	ARG	41	-11.872	14.175	-5.525	1.00	0.00
ATOM	625	NE	ARG	41	-12.111	13.371	-3.617	1.00	0.00
ATOM	626	HE	ARG	41	-12.039	12.453	-4.030	1.00	0.00
ATOM	627	CZ	ARG	41	-12.571	13.473	-2.383	1.00	0.00
ATOM	628	NH1	ARG	41	-12.721	14.644	-1.811	1.00	0.00
ATOM	629	HH11	ARG	41	-12.482	15.485	-2.318	1.00	0.00
ATOM	630	HH12	ARG	41	-13.074	14.700	-0.867	1.00	0.00
ATOM	631	NH2	ARG	41	-12.779	12.394	-1.682	1.00	0.00
ATOM	632	HH21	ARG	41	-12.587	11.489	-2.086	1.00	0.00
ATOM	633	HH22	ARG	41	-13.131	12.469	-0.739	1.00	0.00
ATOM	634	C	ARG	41	-10.871	17.688	-5.823	1.00	0.00
ATOM	635	O	ARG	41	-11.884	17.033	-5.815	1.00	0.00
ATOM	636	N	MET	42	-10.623	18.620	-6.730	1.00	0.00

ATOM	637	H	MET	42	-9.768	19.155	-6.664	1.00	0.00
ATOM	638	CA	MET	42	-11.535	18.911	-7.824	1.00	0.00
ATOM	639	HA	MET	42	-12.410	19.451	-7.462	1.00	0.00
ATOM	640	CB	MET	42	-10.811	19.785	-8.849	1.00	0.00
ATOM	641	HB2	MET	42	-11.431	19.858	-9.743	1.00	0.00
ATOM	642	HB3	MET	42	-10.672	20.778	-8.422	1.00	0.00
ATOM	643	CG	MET	42	-9.443	19.193	-9.223	1.00	0.00
ATOM	644	HG2	MET	42	-8.701	19.598	-8.534	1.00	0.00
ATOM	645	HG3	MET	42	-9.500	18.112	-9.101	1.00	0.00
ATOM	646	SD	MET	42	-8.950	19.573	-10.913	1.00	0.00
ATOM	647	CE	MET	42	-8.477	21.305	-10.661	1.00	0.00
ATOM	648	HE1	MET	42	-7.672	21.360	-9.928	1.00	0.00
ATOM	649	HE2	MET	42	-8.136	21.731	-11.606	1.00	0.00
ATOM	650	HE3	MET	42	-9.337	21.868	-10.299	1.00	0.00
ATOM	651	C	MET	42	-12.023	17.638	-8.527	1.00	0.00
ATOM	652	O	MET	42	-13.119	17.633	-9.060	1.00	0.00
ATOM	653	N	ARG	43	-11.193	16.577	-8.509	1.00	0.00
ATOM	654	H	ARG	43	-10.253	16.708	-8.164	1.00	0.00
ATOM	655	CA	ARG	43	-11.553	15.287	-9.034	1.00	0.00
ATOM	656	HA	ARG	43	-11.691	15.354	-10.114	1.00	0.00
ATOM	657	CB	ARG	43	-10.451	14.261	-8.744	1.00	0.00
ATOM	658	HB2	ARG	43	-9.530	14.779	-8.473	1.00	0.00

ATOM	659	HB3	ARG	43	-10.759	13.615	-7.923	1.00	0.00
ATOM	660	CG	ARG	43	-10.210	13.414	-9.998	1.00	0.00
ATOM	661	HG2	ARG	43	-9.915	12.409	-9.697	1.00	0.00
ATOM	662	HG3	ARG	43	-11.133	13.364	-10.576	1.00	0.00
ATOM	663	CD	ARG	43	-9.101	14.036	-10.859	1.00	0.00
ATOM	664	HD2	ARG	43	-9.137	13.609	-11.862	1.00	0.00
ATOM	665	HD3	ARG	43	-9.250	15.115	-10.919	1.00	0.00
ATOM	666	NE	ARG	43	-7.765	13.773	-10.279	1.00	0.00
ATOM	667	HE	ARG	43	-7.705	12.993	-9.642	1.00	0.00
ATOM	668	CZ	ARG	43	-6.657	14.423	-10.585	1.00	0.00
ATOM	669	NH1	ARG	43	-6.674	15.415	-11.434	1.00	0.00
ATOM	670	HH11	ARG	43	-7.544	15.693	-11.865	1.00	0.00
ATOM	671	HH12	ARG	43	-5.816	15.901	-11.656	1.00	0.00
ATOM	672	NH2	ARG	43	-5.532	14.129	-9.977	1.00	0.00
ATOM	673	HH21	ARG	43	-5.516	13.404	-9.275	1.00	0.00
ATOM	674	HH22	ARG	43	-4.687	14.630	-10.215	1.00	0.00
ATOM	675	C	ARG	43	-12.894	14.842	-8.471	1.00	0.00
ATOM	676	O	ARG	43	-13.137	14.952	-7.277	1.00	0.00
ATOM	677	N	GLU	44	-13.685	14.218	-9.306	1.00	0.00
ATOM	678	H	GLU	44	-13.422	14.137	-10.278	1.00	0.00
ATOM	679	CA	GLU	44	-14.972	13.672	-8.890	1.00	0.00
ATOM	680	HA	GLU	44	-15.189	13.968	-7.864	1.00	0.00

ATOM	681	CB	GLU	44	-16.082	14.204	-9.797	1.00	0.00
ATOM	682	HB2	GLU	44	-17.026	13.762	-9.481	1.00	0.00
ATOM	683	HB3	GLU	44	-16.131	15.287	-9.682	1.00	0.00
ATOM	684	CG	GLU	44	-15.823	13.857	-11.277	1.00	0.00
ATOM	685	HG2	GLU	44	-15.656	14.755	-11.873	1.00	0.00
ATOM	686	HG3	GLU	44	-14.920	13.247	-11.280	1.00	0.00
ATOM	687	CD	GLU	44	-16.982	13.056	-11.875	1.00	0.00
ATOM	688	OE1	GLU	44	-16.992	11.826	-11.645	1.00	0.00
ATOM	689	OE2	GLU	44	-17.861	13.709	-12.484	1.00	0.00
ATOM	690	C	GLU	44	-14.949	12.142	-8.917	1.00	0.00
ATOM	691	O	GLU	44	-15.680	11.500	-8.172	1.00	0.00
ATOM	692	N	GLU	45	-13.997	11.569	-9.662	1.00	0.00
ATOM	693	H	GLU	45	-13.349	12.152	-10.173	1.00	0.00
ATOM	694	CA	GLU	45	-13.890	10.136	-9.808	1.00	0.00
ATOM	695	HA	GLU	45	-14.886	9.697	-9.857	1.00	0.00
ATOM	696	CB	GLU	45	-13.131	9.775	-11.094	1.00	0.00
ATOM	697	HB2	GLU	45	-12.604	10.658	-11.456	1.00	0.00
ATOM	698	HB3	GLU	45	-12.411	8.988	-10.874	1.00	0.00
ATOM	699	CG	GLU	45	-14.112	9.285	-12.174	1.00	0.00
ATOM	700	HG2	GLU	45	-14.357	8.224	-12.195	1.00	0.00
ATOM	701	HG3	GLU	45	-14.987	9.854	-11.860	1.00	0.00
ATOM	702	CD	GLU	45	-13.686	9.737	-13.572	1.00	0.00

ATOM	703	OE1	GLU	45	-13.773	10.954	-13.844	1.00	0.00
ATOM	704	OE2	GLU	45	-13.059	8.902	-14.267	1.00	0.00
ATOM	705	C	GLU	45	-13.191	9.594	-8.572	1.00	0.00
ATOM	706	O	GLU	45	-12.013	9.898	-8.311	1.00	0.00
ATOM	707	N	ASP	46	-13.908	8.761	-7.826	1.00	0.00
ATOM	708	H	ASP	46	-14.853	8.538	-8.103	1.00	0.00
ATOM	709	CA	ASP	46	-13.385	8.158	-6.619	1.00	0.00
ATOM	710	HA	ASP	46	-12.984	8.934	-5.967	1.00	0.00
ATOM	711	CB	ASP	46	-14.486	7.405	-5.866	1.00	0.00
ATOM	712	HB2	ASP	46	-15.361	8.038	-6.013	1.00	0.00
ATOM	713	HB3	ASP	46	-14.674	6.421	-6.295	1.00	0.00
ATOM	714	CG	ASP	46	-14.204	7.264	-4.367	1.00	0.00
ATOM	715	OD1	ASP	46	-13.177	7.819	-3.898	1.00	0.00
ATOM	716	OD2	ASP	46	-14.950	6.514	-3.707	1.00	0.00
ATOM	717	C	ASP	46	-12.275	7.181	-6.992	1.00	0.00
ATOM	718	O	ASP	46	-12.340	6.440	-7.985	1.00	0.00
ATOM	719	N	HID	47	-11.197	7.162	-6.220	1.00	0.00
ATOM	720	H	HID	47	-11.115	7.822	-5.460	1.00	0.00
ATOM	721	CA	HID	47	-10.086	6.258	-6.470	1.00	0.00
ATOM	722	HA	HID	47	-10.325	5.587	-7.295	1.00	0.00
ATOM	723	CB	HID	47	-8.844	7.060	-6.840	1.00	0.00
ATOM	724	HB2	HID	47	-8.666	7.862	-6.123	1.00	0.00



ATOM	725	HB3	HID	47	-7.967	6.415	-6.889	1.00	0.00
ATOM	726	CG	HID	47	-8.974	7.715	-8.197	1.00	0.00
ATOM	727	ND1	HID	47	-9.953	7.415	-9.136	1.00	0.00
ATOM	728	HD1	HID	47	-10.676	6.717	-9.039	1.00	0.00
ATOM	729	CE1	HID	47	-9.768	8.219	-10.200	1.00	0.00
ATOM	730	HE1	HID	47	-10.450	8.173	-11.050	1.00	0.00
ATOM	731	NE2	HID	47	-8.674	8.991	-9.978	1.00	0.00
ATOM	732	CD2	HID	47	-8.164	8.692	-8.723	1.00	0.00
ATOM	733	HD2	HID	47	-7.281	9.215	-8.355	1.00	0.00
ATOM	734	C	HID	47	-9.868	5.410	-5.253	1.00	0.00
ATOM	735	O	HID	47	-9.645	5.965	-4.187	1.00	0.00
ATOM	736	N	LYS	48	-9.852	4.089	-5.453	1.00	0.00
ATOM	737	H	LYS	48	-10.033	3.753	-6.388	1.00	0.00
ATOM	738	CA	LYS	48	-9.645	3.110	-4.394	1.00	0.00
ATOM	739	HA	LYS	48	-8.612	3.149	-4.047	1.00	0.00
ATOM	740	CB	LYS	48	-10.570	3.411	-3.212	1.00	0.00
ATOM	741	HB2	LYS	48	-11.146	4.310	-3.434	1.00	0.00
ATOM	742	HB3	LYS	48	-11.249	2.570	-3.072	1.00	0.00
ATOM	743	CG	LYS	48	-9.755	3.630	-1.931	1.00	0.00
ATOM	744	HG2	LYS	48	-9.104	2.769	-1.781	1.00	0.00
ATOM	745	HG3	LYS	48	-9.147	4.527	-2.055	1.00	0.00
ATOM	746	CD	LYS	48	-10.671	3.797	-0.712	1.00	0.00

ATOM	747	HD2	LYS	48	-10.083	4.187	0.119	1.00	0.00
ATOM	748	HD3	LYS	48	-11.462	4.505	-0.961	1.00	0.00
ATOM	749	CE	LYS	48	-11.295	2.451	-0.311	1.00	0.00
ATOM	750	HE2	LYS	48	-10.557	1.663	-0.463	1.00	0.00
ATOM	751	HE3	LYS	48	-11.571	2.492	0.742	1.00	0.00
ATOM	752	NZ	LYS	48	-12.502	2.163	-1.128	1.00	0.00
ATOM	753	HZ1	LYS	48	-12.246	2.125	-2.105	1.00	0.00
ATOM	754	HZ2	LYS	48	-12.894	1.276	-0.848	1.00	0.00
ATOM	755	HZ3	LYS	48	-13.186	2.893	-0.988	1.00	0.00
ATOM	756	C	LYS	48	-9.877	1.700	-4.909	1.00	0.00
ATOM	757	O	LYS	48	-9.168	0.777	-4.548	1.00	0.00
ATOM	758	N	GLN	49	-10.797	1.564	-5.859	1.00	0.00
ATOM	759	H	GLN	49	-11.313	2.373	-6.178	1.00	0.00
ATOM	760	CA	GLN	49	-11.077	0.294	-6.469	1.00	0.00
ATOM	761	HA	GLN	49	-10.873	-0.502	-5.754	1.00	0.00
ATOM	762	CB	GLN	49	-12.531	0.195	-6.906	1.00	0.00
ATOM	763	HB2	GLN	49	-12.986	1.186	-6.881	1.00	0.00
ATOM	764	HB3	GLN	49	-12.579	-0.200	-7.921	1.00	0.00
ATOM	765	CG	GLN	49	-13.287	-0.736	-5.961	1.00	0.00
ATOM	766	HG2	GLN	49	-12.804	-1.712	-5.991	1.00	0.00
ATOM	767	HG3	GLN	49	-13.250	-0.343	-4.945	1.00	0.00
ATOM	768	CD	GLN	49	-14.743	-0.901	-6.365	1.00	0.00

ATOM	769	OE1	GLN	49	-15.183	-0.490	-7.419	1.00	0.00
ATOM	770	NE2	GLN	49	-15.525	-1.499	-5.497	1.00	0.00
ATOM	771	HE21	GLN	49	-16.502	-1.635	-5.713	1.00	0.00
ATOM	772	HE22	GLN	49	-15.146	-1.819	-4.618	1.00	0.00
ATOM	773	C	GLN	49	-10.214	0.136	-7.682	1.00	0.00
ATOM	774	O	GLN	49	-9.864	-0.976	-7.936	1.00	0.00
ATOM	775	N	LEU	50	-9.746	1.186	-8.350	1.00	0.00
ATOM	776	H	LEU	50	-10.064	2.102	-8.067	1.00	0.00
ATOM	777	CA	LEU	50	-8.851	1.091	-9.491	1.00	0.00
ATOM	778	HA	LEU	50	-9.265	0.433	-10.255	1.00	0.00
ATOM	779	CB	LEU	50	-8.680	2.496	-10.093	1.00	0.00
ATOM	780	HB2	LEU	50	-8.793	3.189	-9.259	1.00	0.00
ATOM	781	HB3	LEU	50	-7.678	2.594	-10.513	1.00	0.00
ATOM	782	CG	LEU	50	-9.723	2.823	-11.176	1.00	0.00
ATOM	783	HG	LEU	50	-10.662	2.323	-10.939	1.00	0.00
ATOM	784	CD1	LEU	50	-9.951	4.338	-11.229	1.00	0.00
ATOM	785	HD11	LEU	50	-9.013	4.839	-11.467	1.00	0.00
ATOM	786	HD12	LEU	50	-10.690	4.569	-11.997	1.00	0.00
ATOM	787	HD13	LEU	50	-10.313	4.686	-10.262	1.00	0.00
ATOM	788	CD2	LEU	50	-9.273	2.294	-12.540	1.00	0.00
ATOM	789	HD21	LEU	50	-9.148	1.213	-12.488	1.00	0.00
ATOM	790	HD22	LEU	50	-10.025	2.537	-13.291	1.00	0.00

ATOM	791	HD23	LEU	50	-8.325	2.756	-12.815	1.00	0.00
ATOM	792	C	LEU	50	-7.512	0.491	-9.059	1.00	0.00
ATOM	793	O	LEU	50	-6.828	-0.103	-9.871	1.00	0.00
ATOM	794	N	CYX	51	-7.173	0.594	-7.771	1.00	0.00
ATOM	795	H	CYX	51	-7.748	1.155	-7.159	1.00	0.00
ATOM	796	CA	CYX	51	-5.986	-0.016	-7.226	1.00	0.00
ATOM	797	HA	CYX	51	-5.213	-0.077	-7.992	1.00	0.00
ATOM	798	CB	CYX	51	-5.460	0.811	-6.073	1.00	0.00
ATOM	799	HB2	CYX	51	-4.374	0.730	-6.033	1.00	0.00
ATOM	800	HB3	CYX	51	-5.740	1.855	-6.217	1.00	0.00
ATOM	801	SG	CYX	51	-6.016	0.428	-4.381	1.00	0.00
ATOM	802	C	CYX	51	-6.279	-1.424	-6.788	1.00	0.00
ATOM	803	O	CYX	51	-5.571	-2.303	-7.235	1.00	0.00
ATOM	804	N	CYX	52	-7.385	-1.647	-6.066	1.00	0.00
ATOM	805	H	CYX	52	-7.921	-0.854	-5.743	1.00	0.00
ATOM	806	CA	CYX	52	-7.794	-2.976	-5.642	1.00	0.00
ATOM	807	HA	CYX	52	-6.933	-3.526	-5.262	1.00	0.00
ATOM	808	CB	CYX	52	-8.845	-2.877	-4.528	1.00	0.00
ATOM	809	HB2	CYX	52	-9.435	-1.970	-4.664	1.00	0.00
ATOM	810	HB3	CYX	52	-9.501	-3.746	-4.569	1.00	0.00
ATOM	811	SG	CYX	52	-8.097	-2.860	-2.867	1.00	0.00
ATOM	812	C	CYX	52	-8.290	-3.787	-6.844	1.00	0.00

ATOM	813	O	CYX	52	-8.624	-4.954	-6.702	1.00	0.00
ATOM	814	N	MET	53	-8.349	-3.174	-8.025	1.00	0.00
ATOM	815	H	MET	53	-8.026	-2.217	-8.061	1.00	0.00
ATOM	816	CA	MET	53	-8.850	-3.770	-9.234	1.00	0.00
ATOM	817	HA	MET	53	-9.508	-4.601	-8.984	1.00	0.00
ATOM	818	CB	MET	53	-9.640	-2.754	-10.066	1.00	0.00
ATOM	819	HB2	MET	53	-10.601	-2.581	-9.582	1.00	0.00
ATOM	820	HB3	MET	53	-9.077	-1.820	-10.099	1.00	0.00
ATOM	821	CG	MET	53	-9.870	-3.255	-11.481	1.00	0.00
ATOM	822	HG2	MET	53	-9.631	-4.317	-11.529	1.00	0.00
ATOM	823	HG3	MET	53	-10.916	-3.105	-11.749	1.00	0.00
ATOM	824	SD	MET	53	-8.824	-2.359	-12.651	1.00	0.00
ATOM	825	CE	MET	53	-8.500	-3.699	-13.816	1.00	0.00
ATOM	826	HE1	MET	53	-9.442	-4.054	-14.233	1.00	0.00
ATOM	827	HE2	MET	53	-7.861	-3.334	-14.621	1.00	0.00
ATOM	828	HE3	MET	53	-8.000	-4.518	-13.299	1.00	0.00
ATOM	829	C	MET	53	-7.660	-4.275	-10.013	1.00	0.00
ATOM	830	O	MET	53	-7.648	-5.429	-10.407	1.00	0.00
ATOM	831	N	GLN	54	-6.697	-3.399	-10.291	1.00	0.00
ATOM	832	H	GLN	54	-6.753	-2.445	-9.963	1.00	0.00
ATOM	833	CA	GLN	54	-5.538	-3.791	-11.063	1.00	0.00
ATOM	834	HA	GLN	54	-5.854	-4.329	-11.957	1.00	0.00

ATOM	835	CB	GLN	54	-4.748	-2.574	-11.487	1.00	0.00
ATOM	836	HB2	GLN	54	-4.835	-1.823	-10.702	1.00	0.00
ATOM	837	HB3	GLN	54	-3.704	-2.868	-11.593	1.00	0.00
ATOM	838	CG	GLN	54	-5.244	-1.994	-12.797	1.00	0.00
ATOM	839	HG2	GLN	54	-4.496	-2.181	-13.568	1.00	0.00
ATOM	840	HG3	GLN	54	-6.169	-2.509	-13.056	1.00	0.00
ATOM	841	CD	GLN	54	-5.520	-0.499	-12.741	1.00	0.00
ATOM	842	OE1	GLN	54	-4.828	0.312	-12.166	1.00	0.00
ATOM	843	NE2	GLN	54	-6.572	-0.055	-13.370	1.00	0.00
ATOM	844	HE21	GLN	54	-6.787	0.932	-13.355	1.00	0.00
ATOM	845	HE22	GLN	54	-7.167	-0.699	-13.870	1.00	0.00
ATOM	846	C	GLN	54	-4.637	-4.673	-10.238	1.00	0.00
ATOM	847	O	GLN	54	-4.023	-5.555	-10.807	1.00	0.00
ATOM	848	N	LEU	55	-4.593	-4.499	-8.915	1.00	0.00
ATOM	849	H	LEU	55	-5.147	-3.769	-8.490	1.00	0.00
ATOM	850	CA	LEU	55	-3.759	-5.322	-8.055	1.00	0.00
ATOM	851	HA	LEU	55	-2.705	-5.189	-8.302	1.00	0.00
ATOM	852	CB	LEU	55	-3.976	-4.902	-6.611	1.00	0.00
ATOM	853	HB2	LEU	55	-4.949	-4.413	-6.650	1.00	0.00
ATOM	854	HB3	LEU	55	-4.037	-5.782	-5.971	1.00	0.00
ATOM	855	CG	LEU	55	-2.930	-3.921	-6.038	1.00	0.00
ATOM	856	HG	LEU	55	-2.380	-3.496	-6.879	1.00	0.00

ATOM	857	CD1 LEU	55	-3.555	-2.786	-5.209	1.00	0.00
ATOM	858	HD11 LEU	55	-4.104	-3.209	-4.369	1.00	0.00
ATOM	859	HD12 LEU	55	-2.767	-2.132	-4.836	1.00	0.00
ATOM	860	HD13 LEU	55	-4.237	-2.211	-5.836	1.00	0.00
ATOM	861	CD2 LEU	55	-1.872	-4.664	-5.217	1.00	0.00
ATOM	862	HD21 LEU	55	-1.361	-5.387	-5.852	1.00	0.00
ATOM	863	HD22 LEU	55	-1.148	-3.949	-4.826	1.00	0.00
ATOM	864	HD23 LEU	55	-2.353	-5.184	-4.389	1.00	0.00
ATOM	865	C LEU	55	-4.134	-6.784	-8.241	1.00	0.00
ATOM	866	O LEU	55	-3.285	-7.640	-8.095	1.00	0.00
ATOM	867	N LYS	56	-5.383	-7.062	-8.616	1.00	0.00
ATOM	868	H LYS	56	-6.089	-6.340	-8.577	1.00	0.00
ATOM	869	CA LYS	56	-5.791	-8.400	-8.978	1.00	0.00
ATOM	870	HA LYS	56	-5.473	-9.117	-8.222	1.00	0.00
ATOM	871	CB LYS	56	-7.314	-8.437	-9.076	1.00	0.00
ATOM	872	HB2 LYS	56	-7.736	-8.189	-8.103	1.00	0.00
ATOM	873	HB3 LYS	56	-7.638	-7.699	-9.811	1.00	0.00
ATOM	874	CG LYS	56	-7.796	-9.827	-9.502	1.00	0.00
ATOM	875	HG2 LYS	56	-8.099	-9.789	-10.549	1.00	0.00
ATOM	876	HG3 LYS	56	-6.975	-10.535	-9.387	1.00	0.00
ATOM	877	CD LYS	56	-8.980	-10.276	-8.645	1.00	0.00
ATOM	878	HD2 LYS	56	-8.604	-10.741	-7.735	1.00	0.00

ATOM	879	HD3 LYS	56	-9.582	-9.405	-8.386	1.00	0.00
ATOM	880	CE LYS	56	-9.843	-11.282	-9.414	1.00	0.00
ATOM	881	HE2 LYS	56	-9.796	-11.054	-10.479	1.00	0.00
ATOM	882	HE3 LYS	56	-9.461	-12.288	-9.241	1.00	0.00
ATOM	883	NZ LYS	56	-11.250	-11.202	-8.954	1.00	0.00
ATOM	884	HZ1 LYS	56	-11.604	-10.270	-9.115	1.00	0.00
ATOM	885	HZ2 LYS	56	-11.810	-11.868	-9.467	1.00	0.00
ATOM	886	HZ3 LYS	56	-11.294	-11.413	-7.968	1.00	0.00
ATOM	887	C LYS	56	-5.113	-8.889	-10.255	1.00	0.00
ATOM	888	O LYS	56	-4.727	-10.044	-10.307	1.00	0.00
ATOM	889	N ASN	57	-5.077	-8.052	-11.292	1.00	0.00
ATOM	890	H ASN	57	-5.601	-7.189	-11.261	1.00	0.00
ATOM	891	CA ASN	57	-4.333	-8.360	-12.496	1.00	0.00
ATOM	892	HA ASN	57	-4.766	-9.232	-12.985	1.00	0.00
ATOM	893	CB ASN	57	-4.379	-7.172	-13.478	1.00	0.00
ATOM	894	HB2 ASN	57	-4.683	-6.252	-12.979	1.00	0.00
ATOM	895	HB3 ASN	57	-3.362	-7.061	-13.854	1.00	0.00
ATOM	896	CG ASN	57	-5.302	-7.413	-14.648	1.00	0.00
ATOM	897	OD1 ASN	57	-5.715	-8.510	-14.974	1.00	0.00
ATOM	898	ND2 ASN	57	-5.718	-6.342	-15.284	1.00	0.00
ATOM	899	HD21 ASN	57	-6.338	-6.437	-16.076	1.00	0.00
ATOM	900	HD22 ASN	57	-5.416	-5.427	-14.979	1.00	0.00



ATOM	901	C	ASN	57	-2.870	-8.709	-12.221	1.00	0.00
ATOM	902	O	ASN	57	-2.269	-9.403	-13.033	1.00	0.00
ATOM	903	N	LEU	58	-2.293	-8.096	-11.181	1.00	0.00
ATOM	904	H	LEU	58	-2.774	-7.337	-10.719	1.00	0.00
ATOM	905	CA	LEU	58	-0.943	-8.399	-10.772	1.00	0.00
ATOM	906	HA	LEU	58	-0.266	-8.342	-11.625	1.00	0.00
ATOM	907	CB	LEU	58	-0.489	-7.377	-9.716	1.00	0.00
ATOM	908	HB2	LEU	58	-1.380	-7.116	-9.145	1.00	0.00
ATOM	909	HB3	LEU	58	0.229	-7.873	-9.063	1.00	0.00
ATOM	910	CG	LEU	58	0.134	-6.115	-10.285	1.00	0.00
ATOM	911	HG	LEU	58	-0.620	-5.566	-10.850	1.00	0.00
ATOM	912	CD1	LEU	58	0.665	-5.231	-9.150	1.00	0.00
ATOM	913	HD11	LEU	58	1.420	-5.778	-8.585	1.00	0.00
ATOM	914	HD12	LEU	58	1.110	-4.328	-9.570	1.00	0.00
ATOM	915	HD13	LEU	58	-0.156	-4.956	-8.488	1.00	0.00
ATOM	916	CD2	LEU	58	1.258	-6.460	-11.217	1.00	0.00
ATOM	917	HD21	LEU	58	0.877	-7.068	-12.038	1.00	0.00
ATOM	918	HD22	LEU	58	1.694	-5.544	-11.617	1.00	0.00
ATOM	919	HD23	LEU	58	2.021	-7.018	-10.676	1.00	0.00
ATOM	920	C	LEU	58	-0.809	-9.853	-10.300	1.00	0.00
ATOM	921	O	LEU	58	-1.719	-10.672	-10.396	1.00	0.00
ATOM	922	N	ASP	59	0.366	-10.183	-9.787	1.00	0.00

ATOM	923	H	ASP	59	1.112	-9.503	-9.736	1.00	0.00
ATOM	924	CA	ASP	59	0.618	-11.514	-9.291	1.00	0.00
ATOM	925	HA	ASP	59	-0.059	-12.222	-9.767	1.00	0.00
ATOM	926	CB	ASP	59	2.053	-11.928	-9.601	1.00	0.00
ATOM	927	HB2	ASP	59	2.594	-11.167	-9.039	1.00	0.00
ATOM	928	HB3	ASP	59	2.334	-12.916	-9.238	1.00	0.00
ATOM	929	CG	ASP	59	2.404	-11.812	-11.081	1.00	0.00
ATOM	930	OD1	ASP	59	1.643	-12.360	-11.897	1.00	0.00
ATOM	931	OD2	ASP	59	3.527	-11.332	-11.340	1.00	0.00
ATOM	932	C	ASP	59	0.404	-11.541	-7.791	1.00	0.00
ATOM	933	O	ASP	59	0.734	-10.577	-7.097	1.00	0.00
ATOM	934	N	GLU	60	0.162	-12.732	-7.248	1.00	0.00
ATOM	935	H	GLU	60	0.093	-13.548	-7.839	1.00	0.00
ATOM	936	CA	GLU	60	-0.036	-12.899	-5.808	1.00	0.00
ATOM	937	HA	GLU	60	-0.699	-12.119	-5.434	1.00	0.00
ATOM	938	CB	GLU	60	-0.666	-14.265	-5.507	1.00	0.00
ATOM	939	HB2	GLU	60	-1.019	-14.708	-6.438	1.00	0.00
ATOM	940	HB3	GLU	60	0.086	-14.914	-5.058	1.00	0.00
ATOM	941	CG	GLU	60	-1.845	-14.102	-4.539	1.00	0.00
ATOM	942	HG2	GLU	60	-1.563	-13.331	-3.821	1.00	0.00
ATOM	943	HG3	GLU	60	-2.740	-13.787	-5.076	1.00	0.00
ATOM	944	CD	GLU	60	-2.128	-15.413	-3.797	1.00	0.00

ATOM	945	OE1	GLU	60	-1.515	-15.605	-2.722	1.00	0.00
ATOM	946	OE2	GLU	60	-2.917	-16.218	-4.336	1.00	0.00
ATOM	947	C	GLU	60	1.298	-12.780	-5.071	1.00	0.00
ATOM	948	O	GLU	60	1.361	-12.435	-3.896	1.00	0.00
ATOM	949	N	LYS	61	2.398	-13.025	-5.791	1.00	0.00
ATOM	950	H	LYS	61	2.304	-13.402	-6.723	1.00	0.00
ATOM	951	CA	LYS	61	3.723	-12.856	-5.253	1.00	0.00
ATOM	952	HA	LYS	61	3.712	-12.974	-4.170	1.00	0.00
ATOM	953	CB	LYS	61	4.649	-13.916	-5.851	1.00	0.00
ATOM	954	HB2	LYS	61	5.555	-13.957	-5.246	1.00	0.00
ATOM	955	HB3	LYS	61	4.139	-14.878	-5.807	1.00	0.00
ATOM	956	CG	LYS	61	5.021	-13.601	-7.306	1.00	0.00
ATOM	957	HG2	LYS	61	4.109	-13.392	-7.866	1.00	0.00
ATOM	958	HG3	LYS	61	5.666	-12.722	-7.323	1.00	0.00
ATOM	959	CD	LYS	61	5.754	-14.783	-7.948	1.00	0.00
ATOM	960	HD2	LYS	61	6.682	-14.424	-8.394	1.00	0.00
ATOM	961	HD3	LYS	61	5.982	-15.519	-7.178	1.00	0.00
ATOM	962	CE	LYS	61	4.883	-15.431	-9.032	1.00	0.00
ATOM	963	HE2	LYS	61	4.226	-14.672	-9.458	1.00	0.00
ATOM	964	HE3	LYS	61	5.530	-15.830	-9.814	1.00	0.00
ATOM	965	NZ	LYS	61	4.065	-16.528	-8.458	1.00	0.00
ATOM	966	HZ1	LYS	61	3.466	-16.157	-7.735	1.00	0.00

ATOM	967	HZ2	LYS	61	3.499	-16.941	-9.186	1.00	0.00
ATOM	968	HZ3	LYS	61	4.674	-17.231	-8.064	1.00	0.00
ATOM	969	C	LYS	61	4.210	-11.452	-5.501	1.00	0.00
ATOM	970	O	LYS	61	5.276	-11.159	-5.015	1.00	0.00
ATOM	971	N	CYX	62	3.528	-10.638	-6.300	1.00	0.00
ATOM	972	H	CYX	62	2.744	-11.032	-6.800	1.00	0.00
ATOM	973	CA	CYX	62	3.860	-9.251	-6.532	1.00	0.00
ATOM	974	HA	CYX	62	4.889	-9.049	-6.236	1.00	0.00
ATOM	975	CB	CYX	62	3.714	-8.949	-8.009	1.00	0.00
ATOM	976	HB2	CYX	62	2.763	-9.342	-8.369	1.00	0.00
ATOM	977	HB3	CYX	62	3.743	-7.870	-8.165	1.00	0.00
ATOM	978	SG	CYX	62	5.008	-9.697	-9.036	1.00	0.00
ATOM	979	C	CYX	62	2.951	-8.357	-5.686	1.00	0.00
ATOM	980	O	CYX	62	3.263	-7.205	-5.413	1.00	0.00
ATOM	981	N	MET	63	1.897	-8.895	-5.107	1.00	0.00
ATOM	982	H	MET	63	1.702	-9.874	-5.260	1.00	0.00
ATOM	983	CA	MET	63	0.986	-8.137	-4.294	1.00	0.00
ATOM	984	HA	MET	63	0.895	-7.116	-4.665	1.00	0.00
ATOM	985	CB	MET	63	-0.372	-8.796	-4.354	1.00	0.00
ATOM	986	HB2	MET	63	-0.230	-9.868	-4.218	1.00	0.00
ATOM	987	HB3	MET	63	-0.971	-8.402	-3.534	1.00	0.00
ATOM	988	CG	MET	63	-1.088	-8.544	-5.669	1.00	0.00

ATOM	989	HG2 MET	63	-1.731	-7.673	-5.543	1.00	0.00
ATOM	990	HG3 MET	63	-0.336	-8.332	-6.430	1.00	0.00
ATOM	991	SD MET	63	-2.088	-9.949	-6.199	1.00	0.00
ATOM	992	CE MET	63	-2.946	-10.327	-4.668	1.00	0.00
ATOM	993	HE1 MET	63	-3.531	-9.462	-4.356	1.00	0.00
ATOM	994	HE2 MET	63	-3.610	-11.177	-4.824	1.00	0.00
ATOM	995	HE3 MET	63	-2.218	-10.571	-3.894	1.00	0.00
ATOM	996	C MET	63	1.522	-8.085	-2.888	1.00	0.00
ATOM	997	O MET	63	0.944	-8.595	-1.971	1.00	0.00
ATOM	998	N CYX	64	2.666	-7.498	-2.645	1.00	0.00
ATOM	999	H CYX	64	3.163	-7.115	-3.438	1.00	0.00
ATOM	1000	CA CYX	64	3.296	-7.425	-1.335	1.00	0.00
ATOM	1001	HA CYX	64	2.722	-6.733	-0.719	1.00	0.00
ATOM	1002	CB CYX	64	3.372	-8.784	-0.611	1.00	0.00
ATOM	1003	HB2 CYX	64	2.555	-8.860	0.106	1.00	0.00
ATOM	1004	HB3 CYX	64	3.290	-9.589	-1.341	1.00	0.00
ATOM	1005	SG CYX	64	4.914	-9.098	0.341	1.00	0.00
ATOM	1006	C CYX	64	4.670	-6.830	-1.518	1.00	0.00
ATOM	1007	O CYX	64	4.932	-5.754	-0.979	1.00	0.00
ATOM	1008	N PRO	65	5.521	-7.496	-2.320	1.00	0.00
ATOM	1009	CD PRO	65	5.262	-8.745	-3.024	1.00	0.00
ATOM	1010	HD2 PRO	65	4.523	-8.538	-3.798	1.00	0.00

ATOM	1011	HD3 PRO	65	4.846	-9.448	-2.303	1.00	0.00
ATOM	1012	CG PRO	65	6.583	-9.215	-3.593	1.00	0.00
ATOM	1013	HG2 PRO	65	6.515	-9.226	-4.681	1.00	0.00
ATOM	1014	HG3 PRO	65	6.784	-10.223	-3.232	1.00	0.00
ATOM	1015	CB PRO	65	7.645	-8.249	-3.116	1.00	0.00
ATOM	1016	HB2 PRO	65	8.246	-7.943	-3.973	1.00	0.00
ATOM	1017	HB3 PRO	65	8.295	-8.666	-2.347	1.00	0.00
ATOM	1018	CA PRO	65	6.881	-7.040	-2.557	1.00	0.00
ATOM	1019	HA PRO	65	7.317	-6.720	-1.611	1.00	0.00
ATOM	1020	C PRO	65	6.892	-5.875	-3.540	1.00	0.00
ATOM	1021	O PRO	65	7.697	-4.965	-3.400	1.00	0.00
ATOM	1022	N ALA	66	5.980	-5.893	-4.512	1.00	0.00
ATOM	1023	H ALA	66	5.355	-6.682	-4.593	1.00	0.00
ATOM	1024	CA ALA	66	5.866	-4.838	-5.469	1.00	0.00
ATOM	1025	HA ALA	66	6.836	-4.564	-5.886	1.00	0.00
ATOM	1026	CB ALA	66	4.955	-5.261	-6.601	1.00	0.00
ATOM	1027	HB1 ALA	66	3.978	-5.529	-6.201	1.00	0.00
ATOM	1028	HB2 ALA	66	4.845	-4.437	-7.307	1.00	0.00
ATOM	1029	HB3 ALA	66	5.386	-6.121	-7.113	1.00	0.00
ATOM	1030	C ALA	66	5.319	-3.625	-4.777	1.00	0.00
ATOM	1031	O ALA	66	5.924	-2.594	-4.924	1.00	0.00
ATOM	1032	N ILE	67	4.237	-3.727	-4.010	1.00	0.00

ATOM	1033	H	ILE	67	3.805	-4.635	-3.921	1.00	0.00
ATOM	1034	CA	ILE	67	3.638	-2.608	-3.304	1.00	0.00
ATOM	1035	HA	ILE	67	3.058	-1.943	-3.945	1.00	0.00
ATOM	1036	CB	ILE	67	2.760	-3.111	-2.167	1.00	0.00
ATOM	1037	HB	ILE	67	3.299	-3.880	-1.616	1.00	0.00
ATOM	1038	CG2	ILE	67	2.400	-1.954	-1.215	1.00	0.00
ATOM	1039	HG21	ILE	67	1.861	-1.183	-1.767	1.00	0.00
ATOM	1040	HG22	ILE	67	1.772	-2.329	-0.408	1.00	0.00
ATOM	1041	HG23	ILE	67	3.313	-1.529	-0.798	1.00	0.00
ATOM	1042	CG1	ILE	67	1.530	-3.841	-2.740	1.00	0.00
ATOM	1043	HG12	ILE	67	1.460	-3.604	-3.802	1.00	0.00
ATOM	1044	HG13	ILE	67	1.684	-4.913	-2.617	1.00	0.00
ATOM	1045	CD1	ILE	67	0.238	-3.430	-2.041	1.00	0.00
ATOM	1046	HD11	ILE	67	0.083	-2.358	-2.165	1.00	0.00
ATOM	1047	HD12	ILE	67	-0.601	-3.970	-2.480	1.00	0.00
ATOM	1048	HD13	ILE	67	0.308	-3.666	-0.980	1.00	0.00
ATOM	1049	C	ILE	67	4.725	-1.710	-2.736	1.00	0.00
ATOM	1050	O	ILE	67	4.755	-0.542	-3.006	1.00	0.00
ATOM	1051	N	MET	68	5.677	-2.213	-1.983	1.00	0.00
ATOM	1052	H	MET	68	5.648	-3.193	-1.741	1.00	0.00
ATOM	1053	CA	MET	68	6.776	-1.409	-1.471	1.00	0.00
ATOM	1054	HA	MET	68	6.437	-0.759	-0.664	1.00	0.00

ATOM	1055	CB	MET	68	7.838	-2.339	-0.929	1.00	0.00
ATOM	1056	HB2	MET	68	8.162	-3.001	-1.732	1.00	0.00
ATOM	1057	HB3	MET	68	8.683	-1.740	-0.589	1.00	0.00
ATOM	1058	CG	MET	68	7.306	-3.171	0.231	1.00	0.00
ATOM	1059	HG2	MET	68	7.515	-2.654	1.167	1.00	0.00
ATOM	1060	HG3	MET	68	6.229	-3.296	0.117	1.00	0.00
ATOM	1061	SD	MET	68	8.094	-4.799	0.261	1.00	0.00
ATOM	1062	CE	MET	68	6.925	-5.662	1.329	1.00	0.00
ATOM	1063	HE1	MET	68	5.936	-5.649	0.870	1.00	0.00
ATOM	1064	HE2	MET	68	7.249	-6.693	1.464	1.00	0.00
ATOM	1065	HE3	MET	68	6.882	-5.165	2.298	1.00	0.00
ATOM	1066	C	MET	68	7.400	-0.524	-2.534	1.00	0.00
ATOM	1067	O	MET	68	7.289	0.694	-2.388	1.00	0.00
ATOM	1068	N	MET	69	7.854	-1.145	-3.636	1.00	0.00
ATOM	1069	H	MET	69	7.883	-2.154	-3.643	1.00	0.00
ATOM	1070	CA	MET	69	8.356	-0.438	-4.792	1.00	0.00
ATOM	1071	HA	MET	69	9.230	0.155	-4.523	1.00	0.00
ATOM	1072	CB	MET	69	8.759	-1.439	-5.863	1.00	0.00
ATOM	1073	HB2	MET	69	8.029	-2.248	-5.869	1.00	0.00
ATOM	1074	HB3	MET	69	8.747	-0.932	-6.829	1.00	0.00
ATOM	1075	CG	MET	69	10.139	-2.006	-5.608	1.00	0.00
ATOM	1076	HG2	MET	69	10.177	-2.424	-4.603	1.00	0.00



ATOM	1077	HG3 MET	69	10.346	-2.791	-6.336	1.00	0.00
ATOM	1078	SD MET	69	11.391	-0.709	-5.760	1.00	0.00
ATOM	1079	CE MET	69	12.809	-1.596	-5.111	1.00	0.00
ATOM	1080	HE1 MET	69	13.000	-2.476	-5.725	1.00	0.00
ATOM	1081	HE2 MET	69	13.684	-0.945	-5.128	1.00	0.00
ATOM	1082	HE3 MET	69	12.607	-1.905	-4.086	1.00	0.00
ATOM	1083	C MET	69	7.376	0.566	-5.393	1.00	0.00
ATOM	1084	O MET	69	7.777	1.594	-5.930	1.00	0.00
ATOM	1085	N MET	70	6.085	0.295	-5.301	1.00	0.00
ATOM	1086	H MET	70	5.813	-0.608	-4.942	1.00	0.00
ATOM	1087	CA MET	70	5.054	1.192	-5.736	1.00	0.00
ATOM	1088	HA MET	70	5.100	1.338	-6.816	1.00	0.00
ATOM	1089	CB MET	70	3.705	0.587	-5.384	1.00	0.00
ATOM	1090	HB2 MET	70	3.086	0.664	-6.278	1.00	0.00
ATOM	1091	HB3 MET	70	3.884	-0.463	-5.156	1.00	0.00
ATOM	1092	CG MET	70	2.988	1.246	-4.212	1.00	0.00
ATOM	1093	HG2 MET	70	3.744	1.426	-3.448	1.00	0.00
ATOM	1094	HG3 MET	70	2.608	2.200	-4.578	1.00	0.00
ATOM	1095	SD MET	70	1.637	0.307	-3.497	1.00	0.00
ATOM	1096	CE MET	70	0.731	1.619	-2.711	1.00	0.00
ATOM	1097	HE1 MET	70	0.417	2.345	-3.462	1.00	0.00
ATOM	1098	HE2 MET	70	-0.148	1.208	-2.215	1.00	0.00

ATOM	1099	HE3 MET	70	1.367	2.111	-1.975	1.00	0.00
ATOM	1100	C MET	70	5.205	2.568	-5.121	1.00	0.00
ATOM	1101	O MET	70	4.869	3.555	-5.757	1.00	0.00
ATOM	1102	N LEU	71	5.631	2.618	-3.856	1.00	0.00
ATOM	1103	H LEU	71	5.776	1.747	-3.366	1.00	0.00
ATOM	1104	CA LEU	71	5.783	3.852	-3.120	1.00	0.00
ATOM	1105	HA LEU	71	5.326	4.670	-3.677	1.00	0.00
ATOM	1106	CB LEU	71	5.108	3.755	-1.752	1.00	0.00
ATOM	1107	HB2 LEU	71	5.581	2.883	-1.301	1.00	0.00
ATOM	1108	HB3 LEU	71	5.340	4.641	-1.161	1.00	0.00
ATOM	1109	CG LEU	71	3.602	3.551	-1.790	1.00	0.00
ATOM	1110	HG LEU	71	3.385	2.511	-2.033	1.00	0.00
ATOM	1111	CD1 LEU	71	3.009	3.887	-0.449	1.00	0.00
ATOM	1112	HD11 LEU	71	3.226	4.928	-0.206	1.00	0.00
ATOM	1113	HD12 LEU	71	1.930	3.740	-0.482	1.00	0.00
ATOM	1114	HD13 LEU	71	3.442	3.239	0.312	1.00	0.00
ATOM	1115	CD2 LEU	71	2.904	4.338	-2.893	1.00	0.00
ATOM	1116	HD21 LEU	71	3.297	4.033	-3.863	1.00	0.00
ATOM	1117	HD22 LEU	71	1.832	4.142	-2.858	1.00	0.00
ATOM	1118	HD23 LEU	71	3.083	5.404	-2.749	1.00	0.00
ATOM	1119	C LEU	71	7.259	4.178	-3.059	1.00	0.00
ATOM	1120	O LEU	71	7.739	4.722	-2.073	1.00	0.00

ATOM	1121	N	ASN	72	8.006	3.777	-4.075	1.00	0.00
ATOM	1122	H	ASN	72	7.567	3.214	-4.790	1.00	0.00
ATOM	1123	CA	ASN	72	9.416	4.067	-4.201	1.00	0.00
ATOM	1124	HA	ASN	72	9.736	4.745	-3.410	1.00	0.00
ATOM	1125	CB	ASN	72	10.211	2.773	-4.084	1.00	0.00
ATOM	1126	HB2	ASN	72	9.924	1.978	-4.772	1.00	0.00
ATOM	1127	HB3	ASN	72	11.224	3.104	-4.314	1.00	0.00
ATOM	1128	CG	ASN	72	10.190	2.226	-2.679	1.00	0.00
ATOM	1129	OD1	ASN	72	10.024	1.057	-2.414	1.00	0.00
ATOM	1130	ND2	ASN	72	10.529	3.037	-1.710	1.00	0.00
ATOM	1131	HD21	ASN	72	10.527	2.707	-0.756	1.00	0.00
ATOM	1132	HD22	ASN	72	10.791	3.990	-1.921	1.00	0.00
ATOM	1133	C	ASN	72	9.717	4.746	-5.523	1.00	0.00
ATOM	1134	O	ASN	72	10.881	4.987	-5.832	1.00	0.00
ATOM	1135	N	GLU	73	8.675	4.997	-6.311	1.00	0.00
ATOM	1136	H	GLU	73	7.756	4.678	-6.040	1.00	0.00
ATOM	1137	CA	GLU	73	8.825	5.629	-7.587	1.00	0.00
ATOM	1138	HA	GLU	73	9.595	5.124	-8.171	1.00	0.00
ATOM	1139	CB	GLU	73	7.496	5.556	-8.359	1.00	0.00
ATOM	1140	HB2	GLU	73	6.734	5.115	-7.717	1.00	0.00
ATOM	1141	HB3	GLU	73	7.193	6.564	-8.642	1.00	0.00
ATOM	1142	CG	GLU	73	7.660	4.694	-9.627	1.00	0.00

ATOM	1143	HG2	GLU	73	8.695	4.565	-9.943	1.00	0.00
ATOM	1144	HG3	GLU	73	7.256	3.734	-9.306	1.00	0.00
ATOM	1145	CD	GLU	73	6.832	5.229	-10.799	1.00	0.00
ATOM	1146	OE1	GLU	73	5.698	5.690	-10.533	1.00	0.00
ATOM	1147	OE2	GLU	73	7.399	5.299	-11.912	1.00	0.00
ATOM	1148	C	GLU	73	9.322	7.066	-7.431	1.00	0.00
ATOM	1149	O	GLU	73	9.447	7.594	-6.313	1.00	0.00
ATOM	1150	N	PRO	74	9.547	7.758	-8.558	1.00	0.00
ATOM	1151	CD	PRO	74	9.391	7.272	-9.921	1.00	0.00
ATOM	1152	HD2	PRO	74	8.327	7.087	-10.070	1.00	0.00
ATOM	1153	HD3	PRO	74	9.936	6.331	-9.984	1.00	0.00
ATOM	1154	CG	PRO	74	9.935	8.317	-10.868	1.00	0.00
ATOM	1155	HG2	PRO	74	9.130	8.699	-11.497	1.00	0.00
ATOM	1156	HG3	PRO	74	10.708	7.876	-11.498	1.00	0.00
ATOM	1157	CB	PRO	74	10.514	9.410	-9.983	1.00	0.00
ATOM	1158	HB2	PRO	74	10.198	10.394	-10.330	1.00	0.00
ATOM	1159	HB3	PRO	74	11.603	9.362	-9.974	1.00	0.00
ATOM	1160	CA	PRO	74	9.964	9.152	-8.569	1.00	0.00
ATOM	1161	HA	PRO	74	10.784	9.265	-7.861	1.00	0.00
ATOM	1162	C	PRO	74	8.825	10.104	-8.187	1.00	0.00
ATOM	1163	O	PRO	74	8.664	11.174	-8.774	1.00	0.00
ATOM	1164	N	MET	75	8.050	9.735	-7.175	1.00	0.00

ATOM	1165	H	MET	75	8.244	8.854	-6.722	1.00	0.00
ATOM	1166	CA	MET	75	6.942	10.516	-6.701	1.00	0.00
ATOM	1167	HA	MET	75	7.263	11.526	-6.445	1.00	0.00
ATOM	1168	CB	MET	75	5.896	10.603	-7.814	1.00	0.00
ATOM	1169	HB2	MET	75	6.394	10.528	-8.781	1.00	0.00
ATOM	1170	HB3	MET	75	5.187	9.783	-7.706	1.00	0.00
ATOM	1171	CG	MET	75	5.154	11.928	-7.728	1.00	0.00
ATOM	1172	HG2	MET	75	5.410	12.419	-6.789	1.00	0.00
ATOM	1173	HG3	MET	75	5.458	12.561	-8.563	1.00	0.00
ATOM	1174	SD	MET	75	3.359	11.672	-7.797	1.00	0.00
ATOM	1175	CE	MET	75	2.955	12.845	-9.100	1.00	0.00
ATOM	1176	HE1	MET	75	3.484	12.572	-10.013	1.00	0.00
ATOM	1177	HE2	MET	75	1.881	12.829	-9.285	1.00	0.00
ATOM	1178	HE3	MET	75	3.255	13.847	-8.794	1.00	0.00
ATOM	1179	C	MET	75	6.336	9.872	-5.462	1.00	0.00
ATOM	1180	O	MET	75	5.130	9.921	-5.266	1.00	0.00
ATOM	1181	N	TRP	76	7.147	9.209	-4.647	1.00	0.00
ATOM	1182	H	TRP	76	8.114	9.087	-4.912	1.00	0.00
ATOM	1183	CA	TRP	76	6.682	8.572	-3.436	1.00	0.00
ATOM	1184	HA	TRP	76	5.857	9.139	-3.006	1.00	0.00
ATOM	1185	CB	TRP	76	6.193	7.163	-3.753	1.00	0.00
ATOM	1186	HB2	TRP	76	6.868	6.731	-4.493	1.00	0.00

ATOM	1187	HB3 TRP	76	6.182	6.536	-2.862	1.00	0.00
ATOM	1188	CG TRP	76	4.818	7.099	-4.339	1.00	0.00
ATOM	1189	CD1 TRP	76	4.438	6.543	-5.506	1.00	0.00
ATOM	1190	HD1 TRP	76	5.213	6.068	-6.108	1.00	0.00
ATOM	1191	NE1 TRP	76	3.082	6.712	-5.683	1.00	0.00
ATOM	1192	HE1 TRP	76	2.583	6.349	-6.483	1.00	0.00
ATOM	1193	CE2 TRP	76	2.524	7.407	-4.649	1.00	0.00
ATOM	1194	CZ2 TRP	76	1.229	7.818	-4.370	1.00	0.00
ATOM	1195	HZ2 TRP	76	0.443	7.588	-5.089	1.00	0.00
ATOM	1196	CH2 TRP	76	1.017	8.507	-3.175	1.00	0.00
ATOM	1197	HH2 TRP	76	0.007	8.833	-2.928	1.00	0.00
ATOM	1198	CZ3 TRP	76	2.054	8.792	-2.290	1.00	0.00
ATOM	1199	HZ3 TRP	76	1.891	9.346	-1.366	1.00	0.00
ATOM	1200	CE3 TRP	76	3.347	8.366	-2.577	1.00	0.00
ATOM	1201	HE3 TRP	76	4.112	8.571	-1.829	1.00	0.00
ATOM	1202	CD2 TRP	76	3.611	7.671	-3.775	1.00	0.00
ATOM	1203	C TRP	76	7.786	8.597	-2.402	1.00	0.00
ATOM	1204	O TRP	76	8.557	7.649	-2.270	1.00	0.00
ATOM	1205	N ILE	77	7.909	9.716	-1.685	1.00	0.00
ATOM	1206	H ILE	77	7.254	10.467	-1.850	1.00	0.00
ATOM	1207	CA ILE	77	9.011	9.949	-0.751	1.00	0.00
ATOM	1208	HA ILE	77	9.611	9.051	-0.607	1.00	0.00

ATOM	1209	CB	ILE	77	9.926	11.115	-1.165	1.00	0.00
ATOM	1210	HB	ILE	77	9.506	12.053	-0.800	1.00	0.00
ATOM	1211	CG2	ILE	77	11.328	10.912	-0.563	1.00	0.00
ATOM	1212	HG21	ILE	77	11.749	9.976	-0.929	1.00	0.00
ATOM	1213	HG22	ILE	77	11.974	11.740	-0.858	1.00	0.00
ATOM	1214	HG23	ILE	77	11.256	10.878	0.524	1.00	0.00
ATOM	1215	CG1	ILE	77	9.978	11.308	-2.682	1.00	0.00
ATOM	1216	HG12	ILE	77	8.992	11.633	-3.014	1.00	0.00
ATOM	1217	HG13	ILE	77	10.708	12.088	-2.898	1.00	0.00
ATOM	1218	CD1	ILE	77	10.368	10.027	-3.421	1.00	0.00
ATOM	1219	HD11	ILE	77	9.638	9.247	-3.207	1.00	0.00
ATOM	1220	HD12	ILE	77	10.390	10.219	-4.494	1.00	0.00
ATOM	1221	HD13	ILE	77	11.354	9.702	-3.090	1.00	0.00
ATOM	1222	C	ILE	77	8.422	10.141	0.616	1.00	0.00
ATOM	1223	O	ILE	77	7.483	9.469	0.980	1.00	0.00
ATOM	1224	N	ARG	78	8.919	11.053	1.421	1.00	0.00
ATOM	1225	H	ARG	78	9.701	11.599	1.089	1.00	0.00
ATOM	1226	CA	ARG	78	8.392	11.341	2.726	1.00	0.00
ATOM	1227	HA	ARG	78	8.614	10.513	3.398	1.00	0.00
ATOM	1228	CB	ARG	78	9.004	12.607	3.298	1.00	0.00
ATOM	1229	HB2	ARG	78	9.264	13.279	2.479	1.00	0.00
ATOM	1230	HB3	ARG	78	8.276	13.093	3.948	1.00	0.00

ATOM	1231	CG	ARG	78	10.260	12.273	4.100	1.00	0.00
ATOM	1232	HG2	ARG	78	10.249	12.844	5.028	1.00	0.00
ATOM	1233	HG3	ARG	78	10.260	11.208	4.328	1.00	0.00
ATOM	1234	CD	ARG	78	11.517	12.623	3.303	1.00	0.00
ATOM	1235	HD2	ARG	78	11.435	12.214	2.296	1.00	0.00
ATOM	1236	HD3	ARG	78	11.622	13.707	3.246	1.00	0.00
ATOM	1237	NE	ARG	78	12.718	12.066	3.941	1.00	0.00
ATOM	1238	HE	ARG	78	12.568	11.551	4.796	1.00	0.00
ATOM	1239	CZ	ARG	78	13.954	12.218	3.506	1.00	0.00
ATOM	1240	NH1	ARG	78	14.198	12.882	2.406	1.00	0.00
ATOM	1241	HH11	ARG	78	13.434	13.284	1.882	1.00	0.00
ATOM	1242	HH12	ARG	78	15.150	12.990	2.085	1.00	0.00
ATOM	1243	NH2	ARG	78	14.954	11.673	4.149	1.00	0.00
ATOM	1244	HH21	ARG	78	14.779	11.133	4.983	1.00	0.00
ATOM	1245	HH22	ARG	78	15.897	11.796	3.807	1.00	0.00
ATOM	1246	C	ARG	78	6.913	11.581	2.708	1.00	0.00
ATOM	1247	O	ARG	78	6.310	11.162	3.668	1.00	0.00
ATOM	1248	N	MET	79	6.360	12.117	1.624	1.00	0.00
ATOM	1249	H	MET	79	6.989	12.425	0.896	1.00	0.00
ATOM	1250	CA	MET	79	4.938	12.269	1.410	1.00	0.00
ATOM	1251	HA	MET	79	4.555	13.057	2.058	1.00	0.00
ATOM	1252	CB	MET	79	4.637	12.640	-0.038	1.00	0.00



ATOM	1253	HB2 MET	79	3.565	12.533	-0.204	1.00	0.00
ATOM	1254	HB3 MET	79	4.926	13.680	-0.193	1.00	0.00
ATOM	1255	CG MET	79	5.398	11.746	-1.025	1.00	0.00
ATOM	1256	HG2 MET	79	6.120	11.176	-0.441	1.00	0.00
ATOM	1257	HG3 MET	79	4.667	11.066	-1.462	1.00	0.00
ATOM	1258	SD MET	79	6.250	12.606	-2.330	1.00	0.00
ATOM	1259	CE MET	79	5.165	12.199	-3.690	1.00	0.00
ATOM	1260	HE1 MET	79	4.164	12.576	-3.482	1.00	0.00
ATOM	1261	HE2 MET	79	5.542	12.657	-4.606	1.00	0.00
ATOM	1262	HE3 MET	79	5.127	11.117	-3.814	1.00	0.00
ATOM	1263	C MET	79	4.196	10.989	1.694	1.00	0.00
ATOM	1264	O MET	79	3.080	11.043	2.130	1.00	0.00
ATOM	1265	N ARG	80	4.811	9.821	1.576	1.00	0.00
ATOM	1266	H ARG	80	5.707	9.822	1.109	1.00	0.00
ATOM	1267	CA ARG	80	4.262	8.574	1.978	1.00	0.00
ATOM	1268	HA ARG	80	3.333	8.412	1.431	1.00	0.00
ATOM	1269	CB ARG	80	5.184	7.413	1.714	1.00	0.00
ATOM	1270	HB2 ARG	80	6.102	7.557	2.284	1.00	0.00
ATOM	1271	HB3 ARG	80	4.695	6.495	2.039	1.00	0.00
ATOM	1272	CG ARG	80	5.519	7.312	0.230	1.00	0.00
ATOM	1273	HG2 ARG	80	4.689	6.843	-0.298	1.00	0.00
ATOM	1274	HG3 ARG	80	5.687	8.311	-0.173	1.00	0.00

ATOM	1275	CD	ARG	80	6.778	6.472	0.045	1.00	0.00
ATOM	1276	HD2	ARG	80	6.509	5.432	0.223	1.00	0.00
ATOM	1277	HD3	ARG	80	7.104	6.591	-0.989	1.00	0.00
ATOM	1278	NE	ARG	80	7.887	6.827	0.929	1.00	0.00
ATOM	1279	HE	ARG	80	7.831	7.775	1.273	1.00	0.00
ATOM	1280	CZ	ARG	80	8.898	6.091	1.296	1.00	0.00
ATOM	1281	NH1	ARG	80	9.013	4.880	0.842	1.00	0.00
ATOM	1282	HH11	ARG	80	8.319	4.515	0.206	1.00	0.00
ATOM	1283	HH12	ARG	80	9.797	4.310	1.126	1.00	0.00
ATOM	1284	NH2	ARG	80	9.788	6.569	2.129	1.00	0.00
ATOM	1285	HH21	ARG	80	9.688	7.509	2.485	1.00	0.00
ATOM	1286	HH22	ARG	80	10.570	5.996	2.411	1.00	0.00
ATOM	1287	C	ARG	80	3.867	8.598	3.416	1.00	0.00
ATOM	1288	O	ARG	80	3.149	7.712	3.732	1.00	0.00
ATOM	1289	N	ASP	81	4.205	9.547	4.256	1.00	0.00
ATOM	1290	H	ASP	81	4.745	10.290	3.835	1.00	0.00
ATOM	1291	CA	ASP	81	3.875	9.650	5.663	1.00	0.00
ATOM	1292	HA	ASP	81	4.611	9.120	6.267	1.00	0.00
ATOM	1293	CB	ASP	81	3.878	11.120	6.070	1.00	0.00
ATOM	1294	HB2	ASP	81	4.676	11.610	5.510	1.00	0.00
ATOM	1295	HB3	ASP	81	2.920	11.564	5.799	1.00	0.00
ATOM	1296	CG	ASP	81	4.119	11.304	7.565	1.00	0.00

ATOM	1297	OD1	ASP	81	4.375	10.300	8.263	1.00	0.00
ATOM	1298	OD2	ASP	81	4.022	12.467	7.997	1.00	0.00
ATOM	1299	C	ASP	81	2.480	9.092	5.944	1.00	0.00
ATOM	1300	O	ASP	81	2.304	8.122	6.675	1.00	0.00
ATOM	1301	N	GLN	82	1.501	9.578	5.170	1.00	0.00
ATOM	1302	H	GLN	82	1.706	10.324	4.520	1.00	0.00
ATOM	1303	CA	GLN	82	0.145	9.125	5.280	1.00	0.00
ATOM	1304	HA	GLN	82	-0.070	8.924	6.329	1.00	0.00
ATOM	1305	CB	GLN	82	-0.855	10.136	4.767	1.00	0.00
ATOM	1306	HB2	GLN	82	-0.340	10.840	4.113	1.00	0.00
ATOM	1307	HB3	GLN	82	-1.626	9.613	4.201	1.00	0.00
ATOM	1308	CG	GLN	82	-1.496	10.891	5.918	1.00	0.00
ATOM	1309	HG2	GLN	82	-2.402	11.366	5.541	1.00	0.00
ATOM	1310	HG3	GLN	82	-1.755	10.198	6.718	1.00	0.00
ATOM	1311	CD	GLN	82	-0.584	11.966	6.483	1.00	0.00
ATOM	1312	OE1	GLN	82	-0.825	13.149	6.346	1.00	0.00
ATOM	1313	NE2	GLN	82	0.498	11.566	7.108	1.00	0.00
ATOM	1314	HE21	GLN	82	1.133	12.248	7.499	1.00	0.00
ATOM	1315	HE22	GLN	82	0.692	10.579	7.194	1.00	0.00
ATOM	1316	C	GLN	82	-0.061	7.841	4.578	1.00	0.00
ATOM	1317	O	GLN	82	-0.150	6.864	5.302	1.00	0.00
ATOM	1318	N	VAL	83	-0.245	7.859	3.251	1.00	0.00

ATOM	1319	H	VAL	83	-0.392	8.776	2.853	1.00	0.00
ATOM	1320	CA	VAL	83	-0.318	6.712	2.374	1.00	0.00
ATOM	1321	HA	VAL	83	-1.331	6.322	2.280	1.00	0.00
ATOM	1322	CB	VAL	83	0.227	6.986	0.983	1.00	0.00
ATOM	1323	HB	VAL	83	-0.622	7.087	0.307	1.00	0.00
ATOM	1324	CG1	VAL	83	1.065	8.224	0.918	1.00	0.00
ATOM	1325	HG11	VAL	83	1.915	8.124	1.592	1.00	0.00
ATOM	1326	HG12	VAL	83	1.426	8.367	-0.101	1.00	0.00
ATOM	1327	HG13	VAL	83	0.466	9.085	1.214	1.00	0.00
ATOM	1328	CG2	VAL	83	0.991	5.823	0.420	1.00	0.00
ATOM	1329	HG21	VAL	83	0.336	4.954	0.356	1.00	0.00
ATOM	1330	HG22	VAL	83	1.357	6.076	-0.576	1.00	0.00
ATOM	1331	HG23	VAL	83	1.836	5.594	1.069	1.00	0.00
ATOM	1332	C	VAL	83	0.403	5.522	2.963	1.00	0.00
ATOM	1333	O	VAL	83	-0.180	4.482	3.041	1.00	0.00
ATOM	1334	N	MET	84	1.633	5.610	3.410	1.00	0.00
ATOM	1335	H	MET	84	2.094	6.485	3.203	1.00	0.00
ATOM	1336	CA	MET	84	2.372	4.600	4.125	1.00	0.00
ATOM	1337	HA	MET	84	2.800	3.886	3.422	1.00	0.00
ATOM	1338	CB	MET	84	3.499	5.237	4.916	1.00	0.00
ATOM	1339	HB2	MET	84	4.198	5.691	4.213	1.00	0.00
ATOM	1340	HB3	MET	84	3.075	6.011	5.555	1.00	0.00

ATOM	1341	CG	MET	84	4.230	4.220	5.771	1.00	0.00
ATOM	1342	HG2	MET	84	3.509	3.766	6.449	1.00	0.00
ATOM	1343	HG3	MET	84	4.641	3.455	5.112	1.00	0.00
ATOM	1344	SD	MET	84	5.568	4.956	6.733	1.00	0.00
ATOM	1345	CE	MET	84	4.670	6.387	7.415	1.00	0.00
ATOM	1346	HE1	MET	84	3.826	6.038	8.009	1.00	0.00
ATOM	1347	HE2	MET	84	5.341	6.971	8.045	1.00	0.00
ATOM	1348	HE3	MET	84	4.305	7.011	6.598	1.00	0.00
ATOM	1349	C	MET	84	1.499	3.808	5.085	1.00	0.00
ATOM	1350	O	MET	84	1.307	2.609	4.886	1.00	0.00
ATOM	1351	N	SER	85	0.935	4.474	6.094	1.00	0.00
ATOM	1352	H	SER	85	1.229	5.426	6.261	1.00	0.00
ATOM	1353	CA	SER	85	-0.016	3.877	7.010	1.00	0.00
ATOM	1354	HA	SER	85	0.247	2.836	7.195	1.00	0.00
ATOM	1355	CB	SER	85	-0.002	4.624	8.333	1.00	0.00
ATOM	1356	HB2	SER	85	1.024	4.850	8.623	1.00	0.00
ATOM	1357	HB3	SER	85	-0.566	5.553	8.243	1.00	0.00
ATOM	1358	OG	SER	85	-0.601	3.800	9.319	1.00	0.00
ATOM	1359	HG	SER	85	-0.600	4.259	10.162	1.00	0.00
ATOM	1360	C	SER	85	-1.436	3.827	6.430	1.00	0.00
ATOM	1361	O	SER	85	-2.426	3.932	7.141	1.00	0.00
ATOM	1362	N	MET	86	-1.565	3.523	5.147	1.00	0.00

ATOM	1363	H	MET	86	-0.720	3.352	4.621	1.00	0.00
ATOM	1364	CA	MET	86	-2.829	3.437	4.457	1.00	0.00
ATOM	1365	HA	MET	86	-3.613	3.099	5.134	1.00	0.00
ATOM	1366	CB	MET	86	-3.199	4.807	3.936	1.00	0.00
ATOM	1367	HB2	MET	86	-2.279	5.313	3.641	1.00	0.00
ATOM	1368	HB3	MET	86	-3.835	4.672	3.061	1.00	0.00
ATOM	1369	CG	MET	86	-3.928	5.646	4.965	1.00	0.00
ATOM	1370	HG2	MET	86	-3.299	5.770	5.846	1.00	0.00
ATOM	1371	HG3	MET	86	-4.157	6.625	4.542	1.00	0.00
ATOM	1372	SD	MET	86	-5.469	4.830	5.444	1.00	0.00
ATOM	1373	CE	MET	86	-5.907	5.868	6.849	1.00	0.00
ATOM	1374	HE1	MET	86	-6.026	6.900	6.516	1.00	0.00
ATOM	1375	HE2	MET	86	-6.843	5.517	7.283	1.00	0.00
ATOM	1376	HE3	MET	86	-5.117	5.818	7.598	1.00	0.00
ATOM	1377	C	MET	86	-2.790	2.468	3.293	1.00	0.00
ATOM	1378	O	MET	86	-3.604	1.568	3.225	1.00	0.00
ATOM	1379	N	ALA	87	-1.771	2.505	2.459	1.00	0.00
ATOM	1380	H	ALA	87	-1.137	3.279	2.595	1.00	0.00
ATOM	1381	CA	ALA	87	-1.519	1.607	1.380	1.00	0.00
ATOM	1382	HA	ALA	87	-2.445	1.347	0.867	1.00	0.00
ATOM	1383	CB	ALA	87	-0.575	2.264	0.377	1.00	0.00
ATOM	1384	HB1	ALA	87	0.361	2.523	0.873	1.00	0.00

ATOM	1385	HB2 ALA	87	-0.373	1.572	-0.441	1.00	0.00
ATOM	1386	HB3 ALA	87	-1.037	3.168	-0.020	1.00	0.00
ATOM	1387	C ALA	87	-0.943	0.317	1.928	1.00	0.00
ATOM	1388	O ALA	87	-0.544	-0.525	1.159	1.00	0.00
ATOM	1389	N HIE	88	-0.820	0.152	3.237	1.00	0.00
ATOM	1390	H HIE	88	-1.001	0.944	3.837	1.00	0.00
ATOM	1391	CA HIE	88	-0.373	-1.072	3.841	1.00	0.00
ATOM	1392	HA HIE	88	0.156	-1.691	3.116	1.00	0.00
ATOM	1393	CB HIE	88	0.582	-0.727	4.975	1.00	0.00
ATOM	1394	HB2 HIE	88	1.205	-1.591	5.203	1.00	0.00
ATOM	1395	HB3 HIE	88	1.214	0.101	4.653	1.00	0.00
ATOM	1396	CG HIE	88	-0.060	-0.302	6.275	1.00	0.00
ATOM	1397	ND1 HIE	88	0.214	-0.857	7.506	1.00	0.00
ATOM	1398	CE1 HIE	88	-0.519	-0.196	8.431	1.00	0.00
ATOM	1399	HE1 HIE	88	-0.424	-0.460	9.484	1.00	0.00
ATOM	1400	NE2 HIE	88	-1.286	0.738	7.813	1.00	0.00
ATOM	1401	HE2 HIE	88	-1.944	1.377	8.235	1.00	0.00
ATOM	1402	CD2 HIE	88	-1.007	0.667	6.462	1.00	0.00
ATOM	1403	HD2 HIE	88	-1.522	1.327	5.763	1.00	0.00
ATOM	1404	C HIE	88	-1.560	-1.878	4.306	1.00	0.00
ATOM	1405	O HIE	88	-1.423	-3.062	4.476	1.00	0.00
ATOM	1406	N ASN	89	-2.691	-1.238	4.583	1.00	0.00

ATOM	1407	H	ASN	89	-2.700	-0.231	4.497	1.00	0.00
ATOM	1408	CA	ASN	89	-3.911	-1.903	4.975	1.00	0.00
ATOM	1409	HA	ASN	89	-3.700	-2.933	5.260	1.00	0.00
ATOM	1410	CB	ASN	89	-4.534	-1.186	6.165	1.00	0.00
ATOM	1411	HB2	ASN	89	-4.299	-0.122	6.118	1.00	0.00
ATOM	1412	HB3	ASN	89	-5.616	-1.319	6.157	1.00	0.00
ATOM	1413	CG	ASN	89	-3.989	-1.743	7.454	1.00	0.00
ATOM	1414	OD1	ASN	89	-4.668	-2.108	8.379	1.00	0.00
ATOM	1415	ND2	ASN	89	-2.687	-1.817	7.541	1.00	0.00
ATOM	1416	HD21	ASN	89	-2.260	-2.181	8.380	1.00	0.00
ATOM	1417	HD22	ASN	89	-2.114	-1.509	6.768	1.00	0.00
ATOM	1418	C	ASN	89	-4.913	-1.878	3.848	1.00	0.00
ATOM	1419	O	ASN	89	-5.771	-2.717	3.828	1.00	0.00
ATOM	1420	N	LEU	90	-4.809	-0.949	2.907	1.00	0.00
ATOM	1421	H	LEU	90	-4.141	-0.204	3.048	1.00	0.00
ATOM	1422	CA	LEU	90	-5.653	-0.900	1.730	1.00	0.00
ATOM	1423	HA	LEU	90	-6.702	-0.844	2.019	1.00	0.00
ATOM	1424	CB	LEU	90	-5.307	0.344	0.901	1.00	0.00
ATOM	1425	HB2	LEU	90	-4.238	0.506	1.040	1.00	0.00
ATOM	1426	HB3	LEU	90	-5.508	0.134	-0.150	1.00	0.00
ATOM	1427	CG	LEU	90	-6.070	1.598	1.324	1.00	0.00
ATOM	1428	HG	LEU	90	-6.093	1.655	2.412	1.00	0.00



ATOM	1429	CD1 LEU	90	-5.379	2.846	0.762	1.00	0.00
ATOM	1430	HD11 LEU	90	-5.356	2.791	-0.327	1.00	0.00
ATOM	1431	HD12 LEU	90	-5.929	3.736	1.068	1.00	0.00
ATOM	1432	HD13 LEU	90	-4.359	2.901	1.144	1.00	0.00
ATOM	1433	CD2 LEU	90	-7.513	1.518	0.834	1.00	0.00
ATOM	1434	HD21 LEU	90	-7.996	0.642	1.265	1.00	0.00
ATOM	1435	HD22 LEU	90	-8.051	2.416	1.139	1.00	0.00
ATOM	1436	HD23 LEU	90	-7.524	1.441	-0.254	1.00	0.00
ATOM	1437	C LEU	90	-5.525	-2.181	0.903	1.00	0.00
ATOM	1438	O LEU	90	-6.528	-2.799	0.569	1.00	0.00
ATOM	1439	N PRO	91	-4.291	-2.604	0.576	1.00	0.00
ATOM	1440	CD PRO	91	-3.031	-1.990	0.918	1.00	0.00
ATOM	1441	HD2 PRO	91	-2.920	-2.068	1.999	1.00	0.00
ATOM	1442	HD3 PRO	91	-3.100	-0.939	0.636	1.00	0.00
ATOM	1443	CG PRO	91	-1.942	-2.714	0.171	1.00	0.00
ATOM	1444	HG2 PRO	91	-1.265	-3.184	0.884	1.00	0.00
ATOM	1445	HG3 PRO	91	-1.387	-2.001	-0.441	1.00	0.00
ATOM	1446	CB PRO	91	-2.630	-3.736	-0.688	1.00	0.00
ATOM	1447	HB2 PRO	91	-2.131	-4.693	-0.541	1.00	0.00
ATOM	1448	HB3 PRO	91	-2.632	-3.488	-1.750	1.00	0.00
ATOM	1449	CA PRO	91	-4.059	-3.811	-0.169	1.00	0.00
ATOM	1450	HA PRO	91	-4.764	-3.861	-0.999	1.00	0.00

ATOM	1451	C	PRO	91	-4.246	-5.014	0.723	1.00	0.00
ATOM	1452	O	PRO	91	-4.760	-6.012	0.277	1.00	0.00
ATOM	1453	N	ILE	92	-3.870	-4.967	1.981	1.00	0.00
ATOM	1454	H	ILE	92	-3.383	-4.152	2.326	1.00	0.00
ATOM	1455	CA	ILE	92	-4.077	-6.077	2.885	1.00	0.00
ATOM	1456	HA	ILE	92	-3.718	-7.036	2.511	1.00	0.00
ATOM	1457	CB	ILE	92	-3.389	-5.758	4.206	1.00	0.00
ATOM	1458	HB	ILE	92	-3.422	-4.680	4.364	1.00	0.00
ATOM	1459	CG2	ILE	92	-4.080	-6.468	5.376	1.00	0.00
ATOM	1460	HG21	ILE	92	-4.047	-7.546	5.218	1.00	0.00
ATOM	1461	HG22	ILE	92	-3.567	-6.221	6.305	1.00	0.00
ATOM	1462	HG23	ILE	92	-5.118	-6.142	5.437	1.00	0.00
ATOM	1463	CG1	ILE	92	-1.899	-6.085	4.127	1.00	0.00
ATOM	1464	HG12	ILE	92	-1.773	-6.827	3.339	1.00	0.00
ATOM	1465	HG13	ILE	92	-1.381	-5.167	3.847	1.00	0.00
ATOM	1466	CD1	ILE	92	-1.316	-6.619	5.423	1.00	0.00
ATOM	1467	HD11	ILE	92	-1.832	-7.536	5.703	1.00	0.00
ATOM	1468	HD12	ILE	92	-0.255	-6.827	5.286	1.00	0.00
ATOM	1469	HD13	ILE	92	-1.441	-5.876	6.211	1.00	0.00
ATOM	1470	C	ILE	92	-5.553	-6.356	3.086	1.00	0.00
ATOM	1471	O	ILE	92	-5.939	-7.514	3.030	1.00	0.00
ATOM	1472	N	GLU	93	-6.354	-5.317	3.283	1.00	0.00

ATOM	1473	H	GLU	93	-5.953	-4.391	3.331	1.00	0.00
ATOM	1474	CA	GLU	93	-7.792	-5.457	3.461	1.00	0.00
ATOM	1475	HA	GLU	93	-7.994	-6.158	4.270	1.00	0.00
ATOM	1476	CB	GLU	93	-8.432	-4.107	3.810	1.00	0.00
ATOM	1477	HB2	GLU	93	-7.907	-3.320	3.267	1.00	0.00
ATOM	1478	HB3	GLU	93	-9.477	-4.125	3.500	1.00	0.00
ATOM	1479	CG	GLU	93	-8.350	-3.830	5.319	1.00	0.00
ATOM	1480	HG2	GLU	93	-7.958	-4.724	5.804	1.00	0.00
ATOM	1481	HG3	GLU	93	-7.678	-2.992	5.504	1.00	0.00
ATOM	1482	CD	GLU	93	-9.734	-3.508	5.885	1.00	0.00
ATOM	1483	OE1	GLU	93	-10.353	-2.545	5.372	1.00	0.00
ATOM	1484	OE2	GLU	93	-10.146	-4.210	6.833	1.00	0.00
ATOM	1485	C	GLU	93	-8.443	-6.007	2.194	1.00	0.00
ATOM	1486	O	GLU	93	-9.542	-6.546	2.242	1.00	0.00
ATOM	1487	N	CYX	94	-7.750	-5.886	1.058	1.00	0.00
ATOM	1488	H	CYX	94	-6.918	-5.312	1.044	1.00	0.00
ATOM	1489	CA	CYX	94	-8.189	-6.479	-0.177	1.00	0.00
ATOM	1490	HA	CYX	94	-9.274	-6.582	-0.183	1.00	0.00
ATOM	1491	CB	CYX	94	-7.779	-5.586	-1.344	1.00	0.00
ATOM	1492	HB2	CYX	94	-6.837	-5.090	-1.110	1.00	0.00
ATOM	1493	HB3	CYX	94	-7.656	-6.193	-2.241	1.00	0.00
ATOM	1494	SG	CYX	94	-9.041	-4.336	-1.741	1.00	0.00

ATOM	1495	C	CYX	94	-7.653	-7.886	-0.342	1.00	0.00
ATOM	1496	O	CYX	94	-8.105	-8.536	-1.278	1.00	0.00
ATOM	1497	N	ASN	95	-6.691	-8.311	0.492	1.00	0.00
ATOM	1498	H	ASN	95	-6.376	-7.630	1.168	1.00	0.00
ATOM	1499	CA	ASN	95	-6.046	-9.613	0.473	1.00	0.00
ATOM	1500	HA	ASN	95	-5.605	-9.829	1.446	1.00	0.00
ATOM	1501	CB	ASN	95	-7.081	-10.696	0.153	1.00	0.00
ATOM	1502	HB2	ASN	95	-8.026	-10.385	0.597	1.00	0.00
ATOM	1503	HB3	ASN	95	-7.207	-10.812	-0.924	1.00	0.00
ATOM	1504	CG	ASN	95	-6.689	-12.023	0.737	1.00	0.00
ATOM	1505	OD1	ASN	95	-7.426	-12.619	1.495	1.00	0.00
ATOM	1506	ND2	ASN	95	-5.502	-12.490	0.433	1.00	0.00
ATOM	1507	HD21	ASN	95	-5.202	-13.379	0.806	1.00	0.00
ATOM	1508	HD22	ASN	95	-4.893	-11.958	-0.173	1.00	0.00
ATOM	1509	C	ASN	95	-4.907	-9.585	-0.565	1.00	0.00
ATOM	1510	O	ASN	95	-4.548	-10.563	-1.197	1.00	0.00
ATOM	1511	N	LEU	96	-4.370	-8.431	-0.882	1.00	0.00
ATOM	1512	H	LEU	96	-4.752	-7.599	-0.456	1.00	0.00
ATOM	1513	CA	LEU	96	-3.347	-8.277	-1.877	1.00	0.00
ATOM	1514	HA	LEU	96	-3.518	-8.988	-2.685	1.00	0.00
ATOM	1515	CB	LEU	96	-3.347	-6.876	-2.457	1.00	0.00
ATOM	1516	HB2	LEU	96	-2.933	-6.283	-1.642	1.00	0.00

ATOM	1517	HB3	LEU	96	-2.689	-6.809	-3.324	1.00	0.00
ATOM	1518	CG	LEU	96	-4.731	-6.340	-2.825	1.00	0.00
ATOM	1519	HG	LEU	96	-5.380	-6.409	-1.953	1.00	0.00
ATOM	1520	CD1	LEU	96	-4.643	-4.905	-3.271	1.00	0.00
ATOM	1521	HD11	LEU	96	-3.994	-4.834	-4.144	1.00	0.00
ATOM	1522	HD12	LEU	96	-5.638	-4.542	-3.529	1.00	0.00
ATOM	1523	HD13	LEU	96	-4.233	-4.297	-2.465	1.00	0.00
ATOM	1524	CD2	LEU	96	-5.432	-7.202	-3.855	1.00	0.00
ATOM	1525	HD21	LEU	96	-5.557	-8.210	-3.462	1.00	0.00
ATOM	1526	HD22	LEU	96	-6.410	-6.776	-4.081	1.00	0.00
ATOM	1527	HD23	LEU	96	-4.834	-7.239	-4.766	1.00	0.00
ATOM	1528	C	LEU	96	-2.047	-8.676	-1.226	1.00	0.00
ATOM	1529	O	LEU	96	-1.494	-9.692	-1.595	1.00	0.00
ATOM	1530	N	MET	97	-1.665	-7.973	-0.162	1.00	0.00
ATOM	1531	H	MET	97	-2.236	-7.191	0.125	1.00	0.00
ATOM	1532	CA	MET	97	-0.437	-8.225	0.555	1.00	0.00
ATOM	1533	HA	MET	97	0.074	-9.092	0.138	1.00	0.00
ATOM	1534	CB	MET	97	0.478	-7.015	0.430	1.00	0.00
ATOM	1535	HB2	MET	97	1.449	-7.280	0.847	1.00	0.00
ATOM	1536	HB3	MET	97	0.589	-6.783	-0.630	1.00	0.00
ATOM	1537	CG	MET	97	-0.069	-5.804	1.157	1.00	0.00
ATOM	1538	HG2	MET	97	-0.217	-5.009	0.425	1.00	0.00

ATOM	1539	HG3	MET	97	-1.029	-6.077	1.594	1.00	0.00
ATOM	1540	SD	MET	97	1.034	-5.211	2.466	1.00	0.00
ATOM	1541	CE	MET	97	2.507	-4.929	1.461	1.00	0.00
ATOM	1542	HE1	MET	97	2.284	-4.195	0.686	1.00	0.00
ATOM	1543	HE2	MET	97	3.313	-4.555	2.093	1.00	0.00
ATOM	1544	HE3	MET	97	2.815	-5.865	0.995	1.00	0.00
ATOM	1545	C	MET	97	-0.666	-8.568	1.992	1.00	0.00
ATOM	1546	O	MET	97	0.236	-8.299	2.776	1.00	0.00
ATOM	1547	N	SER	98	-1.867	-9.074	2.313	1.00	0.00
ATOM	1548	H	SER	98	-2.551	-9.174	1.576	1.00	0.00
ATOM	1549	CA	SER	98	-2.264	-9.412	3.677	1.00	0.00
ATOM	1550	HA	SER	98	-2.589	-8.509	4.195	1.00	0.00
ATOM	1551	CB	SER	98	-3.407	-10.414	3.683	1.00	0.00
ATOM	1552	HB2	SER	98	-3.681	-10.623	4.716	1.00	0.00
ATOM	1553	HB3	SER	98	-4.258	-9.974	3.163	1.00	0.00
ATOM	1554	OG	SER	98	-3.033	-11.621	3.040	1.00	0.00
ATOM	1555	HG	SER	98	-3.771	-12.234	3.057	1.00	0.00
ATOM	1556	C	SER	98	-1.102	-9.951	4.528	1.00	0.00
ATOM	1557	O	SER	98	-0.506	-9.316	5.386	1.00	0.00
ATOM	1558	N	GLN	99	-0.646	-11.137	4.213	1.00	0.00
ATOM	1559	H	GLN	99	-1.195	-11.708	3.586	1.00	0.00
ATOM	1560	CA	GLN	99	0.562	-11.699	4.771	1.00	0.00

ATOM	1561	HA	GLN	99	1.355	-10.958	4.876	1.00	0.00
ATOM	1562	CB	GLN	99	0.168	-12.189	6.156	1.00	0.00
ATOM	1563	HB2	GLN	99	-0.836	-11.837	6.393	1.00	0.00
ATOM	1564	HB3	GLN	99	0.185	-13.278	6.174	1.00	0.00
ATOM	1565	CG	GLN	99	1.149	-11.650	7.183	1.00	0.00
ATOM	1566	HG2	GLN	99	1.996	-12.333	7.237	1.00	0.00
ATOM	1567	HG3	GLN	99	1.499	-10.660	6.888	1.00	0.00
ATOM	1568	CD	GLN	99	0.516	-11.550	8.560	1.00	0.00
ATOM	1569	OE1	GLN	99	-0.564	-12.031	8.853	1.00	0.00
ATOM	1570	NE2	GLN	99	1.192	-10.875	9.462	1.00	0.00
ATOM	1571	HE21	GLN	99	0.821	-10.774	10.396	1.00	0.00
ATOM	1572	HE22	GLN	99	2.080	-10.459	9.217	1.00	0.00
ATOM	1573	C	GLN	99	1.131	-12.793	3.870	1.00	0.00
ATOM	1574	O	GLN	99	1.317	-13.939	4.277	1.00	0.00
ATOM	1575	N	PRO	100	1.368	-12.470	2.590	1.00	0.00
ATOM	1576	CD	PRO	100	1.219	-11.174	1.958	1.00	0.00
ATOM	1577	HD2	PRO	100	1.962	-10.508	2.397	1.00	0.00
ATOM	1578	HD3	PRO	100	0.220	-10.808	2.193	1.00	0.00
ATOM	1579	CG	PRO	100	1.425	-11.374	0.475	1.00	0.00
ATOM	1580	HG2	PRO	100	2.278	-10.777	0.152	1.00	0.00
ATOM	1581	HG3	PRO	100	0.531	-11.043	-0.055	1.00	0.00
ATOM	1582	CB	PRO	100	1.669	-12.852	0.254	1.00	0.00

ATOM	1583	HB2 PRO	100	2.566	-12.970	-0.354	1.00	0.00
ATOM	1584	HB3 PRO	100	0.834	-13.359	-0.229	1.00	0.00
ATOM	1585	CA PRO	100	1.904	-13.444	1.652	1.00	0.00
ATOM	1586	HA PRO	100	1.352	-14.378	1.754	1.00	0.00
ATOM	1587	C PRO	100	3.386	-13.695	1.933	1.00	0.00
ATOM	1588	O PRO	100	3.771	-14.815	2.250	1.00	0.00
ATOM	1589	N CYX	101	4.218	-12.670	1.757	1.00	0.00
ATOM	1590	H CYX	101	3.866	-11.796	1.392	1.00	0.00
ATOM	1591	CA CYX	101	5.633	-12.787	2.000	1.00	0.00
ATOM	1592	HA CYX	101	6.011	-13.715	1.571	1.00	0.00
ATOM	1593	CB CYX	101	6.371	-11.615	1.355	1.00	0.00
ATOM	1594	HB2 CYX	101	6.386	-10.770	2.044	1.00	0.00
ATOM	1595	HB3 CYX	101	7.394	-11.912	1.122	1.00	0.00
ATOM	1596	SG CYX	101	5.623	-10.978	-0.195	1.00	0.00
ATOM	1597	C CYX	101	5.855	-12.865	3.503	1.00	0.00
ATOM	1598	O CYX	101	5.387	-11.994	4.241	1.00	0.00
ATOM	1599	N GLN	102	6.575	-13.886	3.938	1.00	0.00
ATOM	1600	H GLN	102	6.873	-14.590	3.278	1.00	0.00
ATOM	1601	CA GLN	102	6.895	-14.077	5.343	1.00	0.00
ATOM	1602	HA GLN	102	6.579	-13.207	5.918	1.00	0.00
ATOM	1603	CB GLN	102	6.173	-15.310	5.885	1.00	0.00
ATOM	1604	HB2 GLN	102	6.494	-16.184	5.318	1.00	0.00



ATOM	1605	HB3	GLN	102	6.438	-15.441	6.934	1.00	0.00
ATOM	1606	CG	GLN	102	4.655	-15.148	5.758	1.00	0.00
ATOM	1607	HG2	GLN	102	4.417	-14.095	5.910	1.00	0.00
ATOM	1608	HG3	GLN	102	4.315	-15.457	4.769	1.00	0.00
ATOM	1609	CD	GLN	102	3.922	-15.966	6.800	1.00	0.00
ATOM	1610	OE1	GLN	102	3.926	-15.663	7.980	1.00	0.00
ATOM	1611	NE2	GLN	102	3.303	-17.048	6.386	1.00	0.00
ATOM	1612	HE21	GLN	102	2.802	-17.623	7.047	1.00	0.00
ATOM	1613	HE22	GLN	102	3.332	-17.299	5.408	1.00	0.00
ATOM	1614	C	GLN	102	8.399	-14.186	5.534	1.00	0.00
ATOM	1615	O	GLN	102	9.161	-14.041	4.573	1.00	0.00
ATOM	1616	N	MET	103	8.813	-14.363	6.787	1.00	0.00
ATOM	1617	H	MET	103	8.135	-14.300	7.533	1.00	0.00
ATOM	1618	CA	MET	103	10.213	-14.563	7.140	1.00	0.00
ATOM	1619	HA	MET	103	10.877	-14.164	6.372	1.00	0.00
ATOM	1620	CB	MET	103	10.465	-13.805	8.447	1.00	0.00
ATOM	1621	HB2	MET	103	9.603	-13.172	8.657	1.00	0.00
ATOM	1622	HB3	MET	103	10.590	-14.527	9.253	1.00	0.00
ATOM	1623	CG	MET	103	11.720	-12.938	8.342	1.00	0.00
ATOM	1624	HG2	MET	103	12.054	-12.930	7.304	1.00	0.00
ATOM	1625	HG3	MET	103	11.471	-11.922	8.650	1.00	0.00
ATOM	1626	SD	MET	103	13.054	-13.569	9.392	1.00	0.00

ATOM	1627	CE	MET	103	13.371	-12.096	10.376	1.00	0.00
ATOM	1628	HE1	MET	103	12.467	-11.819	10.918	1.00	0.00
ATOM	1629	HE2	MET	103	14.172	-12.298	11.086	1.00	0.00
ATOM	1630	HE3	MET	103	13.666	-11.276	9.720	1.00	0.00
ATOM	1631	C	MET	103	10.613	-16.049	7.258	1.00	0.00
ATOM	1632	O	MET	103	9.731	-16.814	7.727	1.00	0.00
ATOM	1633	OXT	MET	103	11.785	-16.324	6.902	1.00	0.00

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ATOM	1634	S1	LIG	104	-22.814	19.563	-1.364	1.00	0.00
ATOM	1635	S2	LIG	104	-15.364	20.212	0.727	1.00	0.00
ATOM	1636	O1	LIG	104	-19.086	22.179	3.832	1.00	0.00
ATOM	1637	H5	LIG	104	-18.236	22.318	4.302	1.00	0.00
ATOM	1638	O2	LIG	104	-23.592	20.813	-2.001	1.00	0.00
ATOM	1639	H6	LIG	104	-24.067	21.219	-1.214	1.00	0.00
ATOM	1640	O3	LIG	104	-14.788	19.276	1.899	1.00	0.00
ATOM	1641	H7	LIG	104	-14.846	19.849	2.717	1.00	0.00
ATOM	1642	O4	LIG	104	-22.000	18.994	-2.418	1.00	0.00
ATOM	1643	O5	LIG	104	-23.740	18.735	-0.604	1.00	0.00
ATOM	1644	O6	LIG	104	-15.412	19.402	-0.473	1.00	0.00
ATOM	1645	O7	LIG	104	-14.680	21.496	0.743	1.00	0.00
ATOM	1646	O8	LIG	104	-29.863	22.614	3.357	1.00	0.00
ATOM	1647	O9	LIG	104	-30.392	23.078	1.304	1.00	0.00

ATOM	1648	N1	LIG	104	-21.607	22.243	3.007	1.00	0.00
ATOM	1649	H3	LIG	104	-20.970	22.497	3.745	1.00	0.00
ATOM	1650	H4	LIG	104	-22.597	22.420	3.085	1.00	0.00
ATOM	1651	N2	LIG	104	-23.434	21.481	1.318	1.00	0.00
ATOM	1652	N3	LIG	104	-16.622	21.612	3.541	1.00	0.00
ATOM	1653	N4	LIG	104	-24.361	21.492	0.457	1.00	0.00
ATOM	1654	N5	LIG	104	-15.454	21.162	3.694	1.00	0.00
ATOM	1655	N6	LIG	104	-29.600	22.719	2.165	1.00	0.00
ATOM	1656	C1	LIG	104	-19.794	21.190	1.770	1.00	0.00
ATOM	1657	C2	LIG	104	-19.405	20.477	0.601	1.00	0.00
ATOM	1658	C3	LIG	104	-21.188	21.520	1.955	1.00	0.00
ATOM	1659	C4	LIG	104	-21.704	20.362	-0.163	1.00	0.00
ATOM	1660	C5	LIG	104	-20.381	20.067	-0.342	1.00	0.00
ATOM	1661	H1	LIG	104	-20.077	19.491	-1.206	1.00	0.00
ATOM	1662	C6	LIG	104	-18.770	21.527	2.693	1.00	0.00
ATOM	1663	C7	LIG	104	-17.069	20.510	1.273	1.00	0.00
ATOM	1664	C8	LIG	104	-18.042	20.169	0.372	1.00	0.00
ATOM	1665	H2	LIG	104	-17.760	19.661	-0.542	1.00	0.00
ATOM	1666	C9	LIG	104	-22.153	21.107	0.976	1.00	0.00
ATOM	1667	C10	LIG	104	-17.414	21.185	2.483	1.00	0.00
ATOM	1668	C11	LIG	104	-25.647	21.792	0.945	1.00	0.00
ATOM	1669	C12	LIG	104	-14.702	21.695	4.759	1.00	0.00

ATOM	1670	C13	LIG	104	-26.009	21.678	2.298	1.00	0.00
ATOM	1671	H8	LIG	104	-25.281	21.326	3.016	1.00	0.00
ATOM	1672	C14	LIG	104	-26.602	22.180	-0.006	1.00	0.00
ATOM	1673	H9	LIG	104	-26.321	22.240	-1.050	1.00	0.00
ATOM	1674	C15	LIG	104	-27.300	21.982	2.697	1.00	0.00
ATOM	1675	H10	LIG	104	-27.608	21.895	3.729	1.00	0.00
ATOM	1676	C16	LIG	104	-27.895	22.492	0.389	1.00	0.00
ATOM	1677	H11	LIG	104	-28.644	22.804	-0.325	1.00	0.00
ATOM	1678	C17	LIG	104	-28.223	22.394	1.737	1.00	0.00
ATOM	1679	C18	LIG	104	-15.034	22.878	5.441	1.00	0.00
ATOM	1680	H12	LIG	104	-15.899	23.451	5.134	1.00	0.00
ATOM	1681	C19	LIG	104	-13.545	20.986	5.109	1.00	0.00
ATOM	1682	H13	LIG	104	-13.285	20.089	4.559	1.00	0.00
ATOM	1683	C20	LIG	104	-14.227	23.319	6.478	1.00	0.00
ATOM	1684	H14	LIG	104	-14.474	24.236	7.000	1.00	0.00
ATOM	1685	C21	LIG	104	-12.748	21.430	6.157	1.00	0.00
ATOM	1686	H15	LIG	104	-11.860	20.874	6.431	1.00	0.00
ATOM	1687	C22	LIG	104	-13.088	22.594	6.845	1.00	0.00
ATOM	1688	H16	LIG	104	-12.460	22.949	7.655	1.00	0.00
TER									
ATOM	1689	S1	LIG	105	24.462	-7.638	18.279	1.00	0.00
ATOM	1690	S2	LIG	105	21.412	-0.501	18.527	1.00	0.00

ATOM	1691	O1	LIG	105	24.411	-1.875	14.468	1.00	0.00
ATOM	1692	H5	LIG	105	24.090	-0.968	14.276	1.00	0.00
ATOM	1693	O2	LIG	105	26.001	-7.879	18.666	1.00	0.00
ATOM	1694	H6	LIG	105	26.468	-7.876	17.777	1.00	0.00
ATOM	1695	O3	LIG	105	20.171	-0.139	17.573	1.00	0.00
ATOM	1696	H7	LIG	105	20.595	0.301	16.781	1.00	0.00
ATOM	1697	O4	LIG	105	23.734	-7.503	19.524	1.00	0.00
ATOM	1698	O5	LIG	105	24.047	-8.600	17.268	1.00	0.00
ATOM	1699	O6	LIG	105	20.877	-1.244	19.649	1.00	0.00
ATOM	1700	O7	LIG	105	22.237	0.680	18.730	1.00	0.00
ATOM	1701	O8	LIG	105	29.700	-10.868	11.691	1.00	0.00
ATOM	1702	O9	LIG	105	30.620	-11.649	13.495	1.00	0.00
ATOM	1703	N1	LIG	105	25.710	-4.189	14.498	1.00	0.00
ATOM	1704	H3	LIG	105	25.550	-3.335	13.989	1.00	0.00
ATOM	1705	H4	LIG	105	26.301	-4.918	14.129	1.00	0.00
ATOM	1706	N2	LIG	105	26.081	-6.538	15.553	1.00	0.00
ATOM	1707	N3	LIG	105	22.842	-0.145	15.479	1.00	0.00
ATOM	1708	N4	LIG	105	26.621	-7.545	16.098	1.00	0.00
ATOM	1709	N5	LIG	105	21.900	0.668	15.679	1.00	0.00
ATOM	1710	N6	LIG	105	29.833	-10.919	12.908	1.00	0.00
ATOM	1711	C1	LIG	105	24.128	-3.490	16.212	1.00	0.00
ATOM	1712	C2	LIG	105	23.478	-3.811	17.438	1.00	0.00

ATOM	1713	C3	LIG	105	25.022	-4.459	15.621	1.00	0.00
ATOM	1714	C4	LIG	105	24.511	-6.005	17.475	1.00	0.00
ATOM	1715	C5	LIG	105	23.680	-5.079	18.039	1.00	0.00
ATOM	1716	H1	LIG	105	23.149	-5.325	18.950	1.00	0.00
ATOM	1717	C6	LIG	105	23.845	-2.221	15.642	1.00	0.00
ATOM	1718	C7	LIG	105	22.369	-1.649	17.497	1.00	0.00
ATOM	1719	C8	LIG	105	22.624	-2.870	18.062	1.00	0.00
ATOM	1720	H2	LIG	105	22.170	-3.117	19.013	1.00	0.00
ATOM	1721	C9	LIG	105	25.220	-5.728	16.261	1.00	0.00
ATOM	1722	C10	LIG	105	22.961	-1.297	16.247	1.00	0.00
ATOM	1723	C11	LIG	105	27.399	-8.356	15.249	1.00	0.00
ATOM	1724	C12	LIG	105	21.892	1.837	14.894	1.00	0.00
ATOM	1725	C13	LIG	105	27.282	-8.348	13.848	1.00	0.00
ATOM	1726	H8	LIG	105	26.549	-7.707	13.378	1.00	0.00
ATOM	1727	C14	LIG	105	28.297	-9.234	15.873	1.00	0.00
ATOM	1728	H9	LIG	105	28.362	-9.250	16.954	1.00	0.00
ATOM	1729	C15	LIG	105	28.078	-9.185	13.084	1.00	0.00
ATOM	1730	H10	LIG	105	28.003	-9.207	12.006	1.00	0.00
ATOM	1731	C16	LIG	105	29.102	-10.069	15.112	1.00	0.00
ATOM	1732	H11	LIG	105	29.808	-10.745	15.571	1.00	0.00
ATOM	1733	C17	LIG	105	28.984	-10.028	13.726	1.00	0.00
ATOM	1734	C18	LIG	105	22.996	2.296	14.156	1.00	0.00

ATOM	1735	H12	LIG	105	23.931	1.753	14.195	1.00	0.00
ATOM	1736	C19	LIG	105	20.699	2.573	14.901	1.00	0.00
ATOM	1737	H13	LIG	105	19.863	2.224	15.495	1.00	0.00
ATOM	1738	C20	LIG	105	22.886	3.461	13.413	1.00	0.00
ATOM	1739	H14	LIG	105	23.738	3.823	12.850	1.00	0.00
ATOM	1740	C21	LIG	105	20.595	3.734	14.144	1.00	0.00
ATOM	1741	H15	LIG	105	19.669	4.296	14.144	1.00	0.00
ATOM	1742	C22	LIG	105	21.685	4.179	13.398	1.00	0.00
ATOM	1743	H16	LIG	105	21.609	5.091	12.817	1.00	0.00
TER									
ATOM	1744	S1	LIG	106	-26.829	-18.788	-3.361	1.00	0.00
ATOM	1745	S2	LIG	106	-19.973	-15.141	-3.362	1.00	0.00
ATOM	1746	O1	LIG	106	-20.417	-19.782	-5.734	1.00	0.00
ATOM	1747	H5	LIG	106	-19.499	-19.477	-5.898	1.00	0.00
ATOM	1748	O2	LIG	106	-27.103	-20.005	-2.351	1.00	0.00
ATOM	1749	H6	LIG	106	-26.908	-20.818	-2.908	1.00	0.00
ATOM	1750	O3	LIG	106	-19.458	-14.428	-4.707	1.00	0.00
ATOM	1751	H7	LIG	106	-18.856	-15.108	-5.126	1.00	0.00
ATOM	1752	O4	LIG	106	-26.968	-17.567	-2.593	1.00	0.00
ATOM	1753	O5	LIG	106	-27.577	-18.986	-4.594	1.00	0.00
ATOM	1754	O6	LIG	106	-20.942	-14.250	-2.758	1.00	0.00
ATOM	1755	O7	LIG	106	-18.837	-15.642	-2.605	1.00	0.00

ATOM	1756	O8	LIG	106	-28.518	-26.765	-7.207	1.00	0.00
ATOM	1757	O9	LIG	106	-29.624	-26.860	-5.341	1.00	0.00
ATOM	1758	N1	LIG	106	-22.654	-21.189	-5.494	1.00	0.00
ATOM	1759	H3	LIG	106	-21.719	-21.177	-5.868	1.00	0.00
ATOM	1760	H4	LIG	106	-23.277	-21.963	-5.663	1.00	0.00
ATOM	1761	N2	LIG	106	-25.158	-21.318	-4.797	1.00	0.00
ATOM	1762	N3	LIG	106	-18.970	-17.735	-5.291	1.00	0.00
ATOM	1763	N4	LIG	106	-26.239	-21.669	-4.242	1.00	0.00
ATOM	1764	N5	LIG	106	-18.239	-16.716	-5.418	1.00	0.00
ATOM	1765	N6	LIG	106	-28.811	-26.342	-6.094	1.00	0.00
ATOM	1766	C1	LIG	106	-22.358	-18.936	-4.618	1.00	0.00
ATOM	1767	C2	LIG	106	-22.939	-17.847	-3.907	1.00	0.00
ATOM	1768	C3	LIG	106	-23.164	-20.107	-4.881	1.00	0.00
ATOM	1769	C4	LIG	106	-25.067	-19.002	-3.764	1.00	0.00
ATOM	1770	C5	LIG	106	-24.296	-17.904	-3.503	1.00	0.00
ATOM	1771	H1	LIG	106	-24.736	-17.053	-2.999	1.00	0.00
ATOM	1772	C6	LIG	106	-21.009	-18.793	-5.033	1.00	0.00
ATOM	1773	C7	LIG	106	-20.864	-16.585	-4.007	1.00	0.00
ATOM	1774	C8	LIG	106	-22.167	-16.700	-3.603	1.00	0.00
ATOM	1775	H2	LIG	106	-22.613	-15.899	-3.027	1.00	0.00
ATOM	1776	C9	LIG	106	-24.530	-20.143	-4.445	1.00	0.00
ATOM	1777	C10	LIG	106	-20.250	-17.630	-4.762	1.00	0.00



ATOM	1778	C11	LIG	106	-26.840	-22.835	-4.756	1.00	0.00
ATOM	1779	C12	LIG	106	-16.936	-16.925	-5.908	1.00	0.00
ATOM	1780	C13	LIG	106	-26.553	-23.359	-6.028	1.00	0.00
ATOM	1781	H8	LIG	106	-25.848	-22.846	-6.669	1.00	0.00
ATOM	1782	C14	LIG	106	-27.803	-23.451	-3.944	1.00	0.00
ATOM	1783	H9	LIG	106	-28.036	-23.026	-2.976	1.00	0.00
ATOM	1784	C15	LIG	106	-27.195	-24.505	-6.464	1.00	0.00
ATOM	1785	H10	LIG	106	-27.000	-24.926	-7.441	1.00	0.00
ATOM	1786	C16	LIG	106	-28.444	-24.604	-4.373	1.00	0.00
ATOM	1787	H11	LIG	106	-29.181	-25.103	-3.760	1.00	0.00
ATOM	1788	C17	LIG	106	-28.127	-25.118	-5.627	1.00	0.00
ATOM	1789	C18	LIG	106	-16.308	-18.181	-5.962	1.00	0.00
ATOM	1790	H12	LIG	106	-16.823	-19.055	-5.586	1.00	0.00
ATOM	1791	C19	LIG	106	-16.248	-15.779	-6.332	1.00	0.00
ATOM	1792	H13	LIG	106	-16.732	-14.812	-6.262	1.00	0.00
ATOM	1793	C20	LIG	106	-15.020	-18.281	-6.465	1.00	0.00
ATOM	1794	H14	LIG	106	-14.529	-19.247	-6.498	1.00	0.00
ATOM	1795	C21	LIG	106	-14.961	-15.891	-6.844	1.00	0.00
ATOM	1796	H15	LIG	106	-14.436	-15.005	-7.179	1.00	0.00
ATOM	1797	C22	LIG	106	-14.346	-17.141	-6.914	1.00	0.00
ATOM	1798	H16	LIG	106	-13.337	-17.227	-7.301	1.00	0.00

TER

ATOM	1799	S1	LIG	107	16.417	11.759	-22.398	1.00	0.00
ATOM	1800	S2	LIG	107	22.742	14.676	-18.964	1.00	0.00
ATOM	1801	O1	LIG	107	18.124	17.033	-18.274	1.00	0.00
ATOM	1802	H5	LIG	107	18.766	17.523	-17.718	1.00	0.00
ATOM	1803	O2	LIG	107	15.831	12.433	-23.731	1.00	0.00
ATOM	1804	H6	LIG	107	15.108	13.039	-23.387	1.00	0.00
ATOM	1805	O3	LIG	107	22.948	14.471	-17.383	1.00	0.00
ATOM	1806	H7	LIG	107	22.600	15.319	-16.982	1.00	0.00
ATOM	1807	O4	LIG	107	17.556	10.959	-22.799	1.00	0.00
ATOM	1808	O5	LIG	107	15.334	11.181	-21.615	1.00	0.00
ATOM	1809	O6	LIG	107	23.125	13.434	-19.603	1.00	0.00
ATOM	1810	O7	LIG	107	23.322	15.946	-19.374	1.00	0.00
ATOM	1811	O8	LIG	107	8.080	15.128	-21.747	1.00	0.00
ATOM	1812	O9	LIG	107	8.227	14.545	-23.833	1.00	0.00
ATOM	1813	N1	LIG	107	16.008	16.246	-19.668	1.00	0.00
ATOM	1814	H3	LIG	107	16.358	16.912	-18.998	1.00	0.00
ATOM	1815	H4	LIG	107	15.039	16.243	-19.950	1.00	0.00
ATOM	1816	N2	LIG	107	14.868	14.490	-21.214	1.00	0.00
ATOM	1817	N3	LIG	107	20.572	16.885	-17.595	1.00	0.00
ATOM	1818	N4	LIG	107	14.273	13.947	-22.190	1.00	0.00
ATOM	1819	N5	LIG	107	21.646	16.781	-16.942	1.00	0.00
ATOM	1820	N6	LIG	107	8.711	14.755	-22.729	1.00	0.00

ATOM	1821	C1	LIG	107	18.172	15.133	-19.728	1.00	0.00
ATOM	1822	C2	LIG	107	18.954	14.074	-20.271	1.00	0.00
ATOM	1823	C3	LIG	107	16.780	15.234	-20.100	1.00	0.00
ATOM	1824	C4	LIG	107	17.037	13.198	-21.470	1.00	0.00
ATOM	1825	C5	LIG	107	18.358	13.116	-21.129	1.00	0.00
ATOM	1826	H1	LIG	107	18.954	12.293	-21.503	1.00	0.00
ATOM	1827	C6	LIG	107	18.823	16.028	-18.839	1.00	0.00
ATOM	1828	C7	LIG	107	20.940	14.845	-19.099	1.00	0.00
ATOM	1829	C8	LIG	107	20.330	13.967	-19.955	1.00	0.00
ATOM	1830	H2	LIG	107	20.918	13.179	-20.408	1.00	0.00
ATOM	1831	C9	LIG	107	16.207	14.260	-20.984	1.00	0.00
ATOM	1832	C10	LIG	107	20.188	15.897	-18.493	1.00	0.00
ATOM	1833	C11	LIG	107	12.885	14.174	-22.264	1.00	0.00
ATOM	1834	C12	LIG	107	21.984	17.857	-16.099	1.00	0.00
ATOM	1835	C13	LIG	107	12.109	14.590	-21.169	1.00	0.00
ATOM	1836	H8	LIG	107	12.579	14.732	-20.205	1.00	0.00
ATOM	1837	C14	LIG	107	12.275	13.919	-23.500	1.00	0.00
ATOM	1838	H9	LIG	107	12.877	13.574	-24.331	1.00	0.00
ATOM	1839	C15	LIG	107	10.746	14.781	-21.321	1.00	0.00
ATOM	1840	H10	LIG	107	10.123	15.092	-20.495	1.00	0.00
ATOM	1841	C16	LIG	107	10.911	14.115	-23.660	1.00	0.00
ATOM	1842	H11	LIG	107	10.421	13.936	-24.607	1.00	0.00

ATOM	1843	C17	LIG	107	10.166	14.549	-22.568	1.00	0.00
ATOM	1844	C18	LIG	107	21.393	19.129	-16.173	1.00	0.00
ATOM	1845	H12	LIG	107	20.649	19.333	-16.931	1.00	0.00
ATOM	1846	C19	LIG	107	22.996	17.607	-15.162	1.00	0.00
ATOM	1847	H13	LIG	107	23.463	16.630	-15.132	1.00	0.00
ATOM	1848	C20	LIG	107	21.796	20.122	-15.294	1.00	0.00
ATOM	1849	H14	LIG	107	21.350	21.108	-15.354	1.00	0.00
ATOM	1850	C21	LIG	107	23.387	18.607	-14.278	1.00	0.00
ATOM	1851	H15	LIG	107	24.162	18.408	-13.550	1.00	0.00
ATOM	1852	C22	LIG	107	22.787	19.864	-14.340	1.00	0.00
ATOM	1853	H16	LIG	107	23.099	20.648	-13.660	1.00	0.00
TER									
ATOM	1854	S1	LIG	108	-8.830	7.305	-21.659	1.00	0.00
ATOM	1855	S2	LIG	108	-5.888	14.435	-20.756	1.00	0.00
ATOM	1856	O1	LIG	108	-2.707	10.291	-20.501	1.00	0.00
ATOM	1857	H5	LIG	108	-2.133	11.082	-20.418	1.00	0.00
ATOM	1858	O2	LIG	108	-9.094	6.367	-20.384	1.00	0.00
ATOM	1859	H6	LIG	108	-8.270	5.793	-20.342	1.00	0.00
ATOM	1860	O3	LIG	108	-5.040	15.096	-21.950	1.00	0.00
ATOM	1861	H7	LIG	108	-4.089	14.904	-21.707	1.00	0.00
ATOM	1862	O4	LIG	108	-9.923	8.253	-21.714	1.00	0.00
ATOM	1863	O5	LIG	108	-8.486	6.489	-22.815	1.00	0.00

ATOM	1864	O6	LIG	108	-7.287	14.580	-21.104	1.00	0.00
ATOM	1865	O7	LIG	108	-5.378	14.899	-19.475	1.00	0.00
ATOM	1866	O8	LIG	108	-4.116	-0.375	-21.404	1.00	0.00
ATOM	1867	O9	LIG	108	-5.942	-0.869	-20.340	1.00	0.00
ATOM	1868	N1	LIG	108	-3.718	7.837	-20.503	1.00	0.00
ATOM	1869	H3	LIG	108	-2.877	8.387	-20.433	1.00	0.00
ATOM	1870	H4	LIG	108	-3.689	6.829	-20.500	1.00	0.00
ATOM	1871	N2	LIG	108	-5.742	6.246	-20.880	1.00	0.00
ATOM	1872	N3	LIG	108	-2.915	12.825	-20.592	1.00	0.00
ATOM	1873	N4	LIG	108	-6.642	5.375	-20.701	1.00	0.00
ATOM	1874	N5	LIG	108	-2.800	14.042	-20.904	1.00	0.00
ATOM	1875	N6	LIG	108	-5.172	-0.074	-20.861	1.00	0.00
ATOM	1876	C1	LIG	108	-5.041	9.858	-20.810	1.00	0.00
ATOM	1877	C2	LIG	108	-6.334	10.416	-21.018	1.00	0.00
ATOM	1878	C3	LIG	108	-4.902	8.421	-20.757	1.00	0.00
ATOM	1879	C4	LIG	108	-7.324	8.208	-21.176	1.00	0.00
ATOM	1880	C5	LIG	108	-7.454	9.569	-21.208	1.00	0.00
ATOM	1881	H1	LIG	108	-8.424	10.006	-21.406	1.00	0.00
ATOM	1882	C6	LIG	108	-3.958	10.765	-20.673	1.00	0.00
ATOM	1883	C7	LIG	108	-5.453	12.679	-20.900	1.00	0.00
ATOM	1884	C8	LIG	108	-6.511	11.821	-21.040	1.00	0.00
ATOM	1885	H2	LIG	108	-7.507	12.228	-21.160	1.00	0.00

ATOM	1886	C9	LIG	108	-6.056	7.587	-20.936	1.00	0.00
ATOM	1887	C10	LIG	108	-4.130	12.168	-20.734	1.00	0.00
ATOM	1888	C11	LIG	108	-6.217	4.034	-20.765	1.00	0.00
ATOM	1889	C12	LIG	108	-1.547	14.642	-20.671	1.00	0.00
ATOM	1890	C13	LIG	108	-5.023	3.628	-21.385	1.00	0.00
ATOM	1891	H8	LIG	108	-4.391	4.367	-21.859	1.00	0.00
ATOM	1892	C14	LIG	108	-7.079	3.078	-20.208	1.00	0.00
ATOM	1893	H9	LIG	108	-8.009	3.397	-19.756	1.00	0.00
ATOM	1894	C15	LIG	108	-4.681	2.287	-21.415	1.00	0.00
ATOM	1895	H10	LIG	108	-3.773	1.945	-21.892	1.00	0.00
ATOM	1896	C16	LIG	108	-6.738	1.733	-20.229	1.00	0.00
ATOM	1897	H11	LIG	108	-7.381	0.980	-19.797	1.00	0.00
ATOM	1898	C17	LIG	108	-5.539	1.357	-20.829	1.00	0.00
ATOM	1899	C18	LIG	108	-0.550	14.088	-19.851	1.00	0.00
ATOM	1900	H12	LIG	108	-0.737	13.157	-19.332	1.00	0.00
ATOM	1901	C19	LIG	108	-1.335	15.881	-21.293	1.00	0.00
ATOM	1902	H13	LIG	108	-2.121	16.311	-21.902	1.00	0.00
ATOM	1903	C20	LIG	108	0.652	14.759	-19.688	1.00	0.00
ATOM	1904	H14	LIG	108	1.420	14.339	-19.048	1.00	0.00
ATOM	1905	C21	LIG	108	-0.123	16.541	-21.131	1.00	0.00
ATOM	1906	H15	LIG	108	0.041	17.493	-21.620	1.00	0.00
ATOM	1907	C22	LIG	108	0.873	15.981	-20.331	1.00	0.00

ATOM	1908	H16	LIG	108	1.814	16.501	-20.194	1.00	0.00
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ATOM	1909	S1	LIG	109	-5.586	-22.662	11.668	1.00	0.00
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ATOM	1910	S2	LIG	109	-2.872	-23.183	18.926	1.00	0.00
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ATOM	1911	O1	LIG	109	-7.437	-20.784	18.055	1.00	0.00
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ATOM	1912	H5	LIG	109	-7.311	-20.787	19.028	1.00	0.00
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ATOM	1913	O2	LIG	109	-5.448	-21.292	10.845	1.00	0.00
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ATOM	1914	H6	LIG	109	-6.336	-20.845	10.985	1.00	0.00
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ATOM	1915	O3	LIG	109	-3.540	-24.230	19.946	1.00	0.00
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ATOM	1916	H7	LIG	109	-4.200	-23.680	20.459	1.00	0.00
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ATOM	1917	O4	LIG	109	-4.292	-23.312	11.620	1.00	0.00
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ATOM	1918	O5	LIG	109	-6.794	-23.367	11.264	1.00	0.00
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ATOM	1919	O6	LIG	109	-1.981	-23.940	18.071	1.00	0.00
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ATOM	1920	O7	LIG	109	-2.404	-22.016	19.657	1.00	0.00
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ATOM	1921	O8	LIG	109	-13.338	-18.749	9.246	1.00	0.00
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ATOM	1922	O9	LIG	109	-11.959	-18.149	7.680	1.00	0.00
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ATOM	1923	N1	LIG	109	-8.244	-20.324	15.569	1.00	0.00
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ATOM	1924	H3	LIG	109	-8.451	-20.189	16.546	1.00	0.00
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ATOM	1925	H4	LIG	109	-8.875	-20.005	14.850	1.00	0.00
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ATOM	1926	N2	LIG	109	-7.996	-20.756	13.015	1.00	0.00
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ATOM	1927	N3	LIG	109	-5.795	-21.699	19.770	1.00	0.00
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ATOM	1928	N4	LIG	109	-7.842	-20.582	11.771	1.00	0.00
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ATOM	1929	N5	LIG	109	-5.263	-22.321	20.730	1.00	0.00
ATOM	1930	N6	LIG	109	-12.214	-18.647	8.768	1.00	0.00
ATOM	1931	C1	LIG	109	-6.248	-21.595	16.142	1.00	0.00
ATOM	1932	C2	LIG	109	-5.120	-22.321	15.667	1.00	0.00
ATOM	1933	C3	LIG	109	-7.193	-21.068	15.185	1.00	0.00
ATOM	1934	C4	LIG	109	-5.856	-22.072	13.370	1.00	0.00
ATOM	1935	C5	LIG	109	-4.955	-22.553	14.278	1.00	0.00
ATOM	1936	H1	LIG	109	-4.115	-23.141	13.933	1.00	0.00
ATOM	1937	C6	LIG	109	-6.374	-21.440	17.547	1.00	0.00
ATOM	1938	C7	LIG	109	-4.293	-22.654	17.929	1.00	0.00
ATOM	1939	C8	LIG	109	-4.156	-22.820	16.576	1.00	0.00
ATOM	1940	H2	LIG	109	-3.284	-23.336	16.194	1.00	0.00
ATOM	1941	C9	LIG	109	-6.993	-21.304	13.783	1.00	0.00
ATOM	1942	C10	LIG	109	-5.430	-21.972	18.458	1.00	0.00
ATOM	1943	C11	LIG	109	-8.971	-20.111	11.074	1.00	0.00
ATOM	1944	C12	LIG	109	-5.650	-21.937	22.028	1.00	0.00
ATOM	1945	C13	LIG	109	-10.283	-20.211	11.566	1.00	0.00
ATOM	1946	H8	LIG	109	-10.460	-20.688	12.521	1.00	0.00
ATOM	1947	C14	LIG	109	-8.737	-19.557	9.807	1.00	0.00
ATOM	1948	H9	LIG	109	-7.725	-19.507	9.425	1.00	0.00
ATOM	1949	C15	LIG	109	-11.342	-19.732	10.813	1.00	0.00
ATOM	1950	H10	LIG	109	-12.363	-19.804	11.163	1.00	0.00



ATOM	1951	C16	LIG	109	-9.794	-19.069	9.052	1.00	0.00
ATOM	1952	H11	LIG	109	-9.636	-18.629	8.077	1.00	0.00
ATOM	1953	C17	LIG	109	-11.082	-19.159	9.569	1.00	0.00
ATOM	1954	C18	LIG	109	-6.322	-20.740	22.326	1.00	0.00
ATOM	1955	H12	LIG	109	-6.544	-20.037	21.535	1.00	0.00
ATOM	1956	C19	LIG	109	-5.300	-22.821	23.059	1.00	0.00
ATOM	1957	H13	LIG	109	-4.759	-23.729	22.820	1.00	0.00
ATOM	1958	C20	LIG	109	-6.660	-20.455	23.640	1.00	0.00
ATOM	1959	H14	LIG	109	-7.169	-19.528	23.876	1.00	0.00
ATOM	1960	C21	LIG	109	-5.653	-22.531	24.372	1.00	0.00
ATOM	1961	H15	LIG	109	-5.388	-23.220	25.164	1.00	0.00
ATOM	1962	C22	LIG	109	-6.335	-21.351	24.665	1.00	0.00
ATOM	1963	H16	LIG	109	-6.599	-21.118	25.690	1.00	0.00
TER									
ATOM	1964	S1	LIG	110	4.203	-17.880	-18.986	1.00	0.00
ATOM	1965	S2	LIG	110	5.490	-10.582	-21.307	1.00	0.00
ATOM	1966	O1	LIG	110	9.337	-14.107	-21.660	1.00	0.00
ATOM	1967	H5	LIG	110	9.689	-13.279	-22.051	1.00	0.00
ATOM	1968	O2	LIG	110	4.745	-18.388	-17.564	1.00	0.00
ATOM	1969	H6	LIG	110	5.614	-18.837	-17.792	1.00	0.00
ATOM	1970	O3	LIG	110	5.557	-10.253	-22.879	1.00	0.00
ATOM	1971	H7	LIG	110	6.535	-10.266	-23.087	1.00	0.00

ATOM	1972	O4	LIG	110	3.006	-17.107	-18.727	1.00	0.00
ATOM	1973	O5	LIG	110	4.192	-18.982	-19.938	1.00	0.00
ATOM	1974	O6	LIG	110	4.088	-10.689	-20.959	1.00	0.00
ATOM	1975	O7	LIG	110	6.381	-9.690	-20.580	1.00	0.00
ATOM	1976	O8	LIG	110	10.211	-24.596	-19.254	1.00	0.00
ATOM	1977	O9	LIG	110	9.197	-24.902	-17.359	1.00	0.00
ATOM	1978	N1	LIG	110	9.030	-16.521	-20.601	1.00	0.00
ATOM	1979	H3	LIG	110	9.664	-15.899	-21.076	1.00	0.00
ATOM	1980	H4	LIG	110	9.292	-17.469	-20.377	1.00	0.00
ATOM	1981	N2	LIG	110	7.475	-18.336	-19.572	1.00	0.00
ATOM	1982	N3	LIG	110	8.526	-11.763	-22.228	1.00	0.00
ATOM	1983	N4	LIG	110	6.973	-19.189	-18.783	1.00	0.00
ATOM	1984	N5	LIG	110	8.207	-10.702	-22.830	1.00	0.00
ATOM	1985	N6	LIG	110	9.456	-24.241	-18.356	1.00	0.00
ATOM	1986	C1	LIG	110	7.273	-14.837	-20.693	1.00	0.00
ATOM	1987	C2	LIG	110	5.926	-14.501	-20.375	1.00	0.00
ATOM	1988	C3	LIG	110	7.753	-16.164	-20.380	1.00	0.00
ATOM	1989	C4	LIG	110	5.512	-16.730	-19.516	1.00	0.00
ATOM	1990	C5	LIG	110	5.067	-15.469	-19.798	1.00	0.00
ATOM	1991	H1	LIG	110	4.035	-15.211	-19.598	1.00	0.00
ATOM	1992	C6	LIG	110	8.063	-13.834	-21.312	1.00	0.00
ATOM	1993	C7	LIG	110	6.217	-12.243	-21.228	1.00	0.00

ATOM	1994	C8	LIG	110	5.435	-13.198	-20.636	1.00	0.00
ATOM	1995	H2	LIG	110	4.421	-12.948	-20.352	1.00	0.00
ATOM	1996	C9	LIG	110	6.866	-17.119	-19.780	1.00	0.00
ATOM	1997	C10	LIG	110	7.560	-12.545	-21.608	1.00	0.00
ATOM	1998	C11	LIG	110	7.628	-20.434	-18.729	1.00	0.00
ATOM	1999	C12	LIG	110	9.258	-9.942	-23.378	1.00	0.00
ATOM	2000	C13	LIG	110	8.495	-20.898	-19.734	1.00	0.00
ATOM	2001	H8	LIG	110	8.667	-20.289	-20.611	1.00	0.00
ATOM	2002	C14	LIG	110	7.343	-21.244	-17.621	1.00	0.00
ATOM	2003	H9	LIG	110	6.654	-20.889	-16.864	1.00	0.00
ATOM	2004	C15	LIG	110	9.093	-22.141	-19.611	1.00	0.00
ATOM	2005	H10	LIG	110	9.756	-22.526	-20.373	1.00	0.00
ATOM	2006	C16	LIG	110	7.945	-22.487	-17.489	1.00	0.00
ATOM	2007	H11	LIG	110	7.748	-23.123	-16.638	1.00	0.00
ATOM	2008	C17	LIG	110	8.816	-22.915	-18.486	1.00	0.00
ATOM	2009	C18	LIG	110	10.610	-10.110	-23.037	1.00	0.00
ATOM	2010	H12	LIG	110	10.889	-10.842	-22.291	1.00	0.00
ATOM	2011	C19	LIG	110	8.884	-8.949	-24.294	1.00	0.00
ATOM	2012	H13	LIG	110	7.835	-8.810	-24.529	1.00	0.00
ATOM	2013	C20	LIG	110	11.571	-9.310	-23.636	1.00	0.00
ATOM	2014	H14	LIG	110	12.614	-9.430	-23.368	1.00	0.00
ATOM	2015	C21	LIG	110	9.855	-8.158	-24.896	1.00	0.00

ATOM	2016	H15	LIG	110	9.564	-7.398	-25.611	1.00	0.00
ATOM	2017	C22	LIG	110	11.199	-8.338	-24.571	1.00	0.00
ATOM	2018	H16	LIG	110	11.956	-7.713	-25.031	1.00	0.00
TER									
ATOM	2019	S1	LIG	111	19.999	7.249	-11.082	1.00	0.00
ATOM	2020	S2	LIG	111	22.198	0.145	-13.317	1.00	0.00
ATOM	2021	O1	LIG	111	22.020	1.295	-8.218	1.00	0.00
ATOM	2022	H5	LIG	111	22.265	0.347	-8.276	1.00	0.00
ATOM	2023	O2	LIG	111	21.091	8.333	-10.626	1.00	0.00
ATOM	2024	H6	LIG	111	21.099	8.250	-9.625	1.00	0.00
ATOM	2025	O3	LIG	111	21.182	-1.088	-13.143	1.00	0.00
ATOM	2026	H7	LIG	111	21.457	-1.507	-12.277	1.00	0.00
ATOM	2027	O4	LIG	111	20.017	7.219	-12.530	1.00	0.00
ATOM	2028	O5	LIG	111	18.756	7.458	-10.353	1.00	0.00
ATOM	2029	O6	LIG	111	21.784	0.867	-14.503	1.00	0.00
ATOM	2030	O7	LIG	111	23.568	-0.320	-13.159	1.00	0.00
ATOM	2031	O8	LIG	111	19.373	10.095	-2.551	1.00	0.00
ATOM	2032	O9	LIG	111	20.221	11.802	-3.591	1.00	0.00
ATOM	2033	N1	LIG	111	21.568	3.789	-7.433	1.00	0.00
ATOM	2034	H3	LIG	111	21.780	2.851	-7.132	1.00	0.00
ATOM	2035	H4	LIG	111	21.416	4.532	-6.768	1.00	0.00
ATOM	2036	N2	LIG	111	20.810	6.214	-7.995	1.00	0.00

ATOM	2037	N3	LIG	111	22.312	-0.502	-9.997	1.00	0.00
ATOM	2038	N4	LIG	111	20.791	7.473	-8.124	1.00	0.00
ATOM	2039	N5	LIG	111	22.202	-1.544	-10.698	1.00	0.00
ATOM	2040	N6	LIG	111	19.884	10.627	-3.530	1.00	0.00
ATOM	2041	C1	LIG	111	21.490	3.054	-9.753	1.00	0.00
ATOM	2042	C2	LIG	111	21.284	3.420	-11.113	1.00	0.00
ATOM	2043	C3	LIG	111	21.328	4.059	-8.728	1.00	0.00
ATOM	2044	C4	LIG	111	20.717	5.690	-10.476	1.00	0.00
ATOM	2045	C5	LIG	111	20.889	4.740	-11.444	1.00	0.00
ATOM	2046	H1	LIG	111	20.696	4.994	-12.478	1.00	0.00
ATOM	2047	C6	LIG	111	21.840	1.704	-9.491	1.00	0.00
ATOM	2048	C7	LIG	111	21.813	1.171	-11.870	1.00	0.00
ATOM	2049	C8	LIG	111	21.469	2.468	-12.145	1.00	0.00
ATOM	2050	H2	LIG	111	21.347	2.774	-13.176	1.00	0.00
ATOM	2051	C9	LIG	111	20.943	5.392	-9.093	1.00	0.00
ATOM	2052	C10	LIG	111	21.987	0.743	-10.519	1.00	0.00
ATOM	2053	C11	LIG	111	20.547	8.205	-6.946	1.00	0.00
ATOM	2054	C12	LIG	111	22.610	-2.754	-10.105	1.00	0.00
ATOM	2055	C13	LIG	111	19.954	7.652	-5.798	1.00	0.00
ATOM	2056	H8	LIG	111	19.645	6.615	-5.805	1.00	0.00
ATOM	2057	C14	LIG	111	20.888	9.565	-6.973	1.00	0.00
ATOM	2058	H9	LIG	111	21.321	9.989	-7.871	1.00	0.00

ATOM	2059	C15	LIG	111	19.739	8.443	-4.682	1.00	0.00
ATOM	2060	H10	LIG	111	19.277	8.046	-3.789	1.00	0.00
ATOM	2061	C16	LIG	111	20.681	10.360	-5.855	1.00	0.00
ATOM	2062	H11	LIG	111	20.946	11.408	-5.850	1.00	0.00
ATOM	2063	C17	LIG	111	20.113	9.785	-4.722	1.00	0.00
ATOM	2064	C18	LIG	111	23.399	-2.835	-8.946	1.00	0.00
ATOM	2065	H12	LIG	111	23.753	-1.929	-8.473	1.00	0.00
ATOM	2066	C19	LIG	111	22.204	-3.926	-10.761	1.00	0.00
ATOM	2067	H13	LIG	111	21.618	-3.851	-11.669	1.00	0.00
ATOM	2068	C20	LIG	111	23.746	-4.079	-8.441	1.00	0.00
ATOM	2069	H14	LIG	111	24.364	-4.145	-7.552	1.00	0.00
ATOM	2070	C21	LIG	111	22.549	-5.168	-10.241	1.00	0.00
ATOM	2071	H15	LIG	111	22.226	-6.070	-10.744	1.00	0.00
ATOM	2072	C22	LIG	111	23.318	-5.247	-9.080	1.00	0.00
ATOM	2073	H16	LIG	111	23.598	-6.215	-8.680	1.00	0.00

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ATOM	2074	S1	LIG	112	9.201	21.937	18.511	1.00	0.00
ATOM	2075	S2	LIG	112	3.464	21.569	13.290	1.00	0.00
ATOM	2076	O1	LIG	112	8.394	22.188	11.653	1.00	0.00
ATOM	2077	H5	LIG	112	7.844	22.112	10.844	1.00	0.00
ATOM	2078	O2	LIG	112	9.842	23.351	18.916	1.00	0.00
ATOM	2079	H6	LIG	112	10.656	23.414	18.330	1.00	0.00

ATOM	2080	O3	LIG	112	3.273	20.231	12.419	1.00	0.00
ATOM	2081	H7	LIG	112	3.752	20.429	11.563	1.00	0.00
ATOM	2082	O4	LIG	112	7.947	21.825	19.227	1.00	0.00
ATOM	2083	O5	LIG	112	10.209	20.889	18.597	1.00	0.00
ATOM	2084	O6	LIG	112	2.887	21.309	14.592	1.00	0.00
ATOM	2085	O7	LIG	112	3.064	22.727	12.505	1.00	0.00
ATOM	2086	O8	LIG	112	17.954	22.956	16.610	1.00	0.00
ATOM	2087	O9	LIG	112	17.667	24.214	18.356	1.00	0.00
ATOM	2088	N1	LIG	112	10.333	22.619	13.412	1.00	0.00
ATOM	2089	H3	LIG	112	10.103	22.545	12.434	1.00	0.00
ATOM	2090	H4	LIG	112	11.283	22.767	13.718	1.00	0.00
ATOM	2091	N2	LIG	112	11.163	22.629	15.878	1.00	0.00
ATOM	2092	N3	LIG	112	5.969	21.744	11.019	1.00	0.00
ATOM	2093	N4	LIG	112	11.645	23.000	16.988	1.00	0.00
ATOM	2094	N5	LIG	112	4.909	21.251	10.546	1.00	0.00
ATOM	2095	N6	LIG	112	17.249	23.527	17.434	1.00	0.00
ATOM	2096	C1	LIG	112	8.029	22.120	14.018	1.00	0.00
ATOM	2097	C2	LIG	112	7.087	21.929	15.069	1.00	0.00
ATOM	2098	C3	LIG	112	9.411	22.372	14.357	1.00	0.00
ATOM	2099	C4	LIG	112	8.822	22.169	16.745	1.00	0.00
ATOM	2100	C5	LIG	112	7.513	21.949	16.420	1.00	0.00
ATOM	2101	H1	LIG	112	6.794	21.762	17.207	1.00	0.00

ATOM	2102	C6	LIG	112	7.540	22.042	12.688	1.00	0.00
ATOM	2103	C7	LIG	112	5.267	21.651	13.480	1.00	0.00
ATOM	2104	C8	LIG	112	5.719	21.716	14.771	1.00	0.00
ATOM	2105	H2	LIG	112	5.010	21.613	15.583	1.00	0.00
ATOM	2106	C9	LIG	112	9.811	22.402	15.734	1.00	0.00
ATOM	2107	C10	LIG	112	6.180	21.790	12.391	1.00	0.00
ATOM	2108	C11	LIG	112	13.049	23.100	17.041	1.00	0.00
ATOM	2109	C12	LIG	112	4.755	21.299	9.148	1.00	0.00
ATOM	2110	C13	LIG	112	13.907	22.459	16.132	1.00	0.00
ATOM	2111	H8	LIG	112	13.489	21.837	15.352	1.00	0.00
ATOM	2112	C14	LIG	112	13.582	23.853	18.098	1.00	0.00
ATOM	2113	H9	LIG	112	12.914	24.322	18.809	1.00	0.00
ATOM	2114	C15	LIG	112	15.279	22.600	16.259	1.00	0.00
ATOM	2115	H10	LIG	112	15.963	22.111	15.580	1.00	0.00
ATOM	2116	C16	LIG	112	14.955	24.003	18.226	1.00	0.00
ATOM	2117	H11	LIG	112	15.388	24.587	19.026	1.00	0.00
ATOM	2118	C17	LIG	112	15.785	23.377	17.300	1.00	0.00
ATOM	2119	C18	LIG	112	5.523	22.115	8.300	1.00	0.00
ATOM	2120	H12	LIG	112	6.268	22.777	8.721	1.00	0.00
ATOM	2121	C19	LIG	112	3.742	20.490	8.613	1.00	0.00
ATOM	2122	H13	LIG	112	3.139	19.885	9.279	1.00	0.00
ATOM	2123	C20	LIG	112	5.292	22.089	6.933	1.00	0.00



ATOM	2124	H14	LIG	112	5.876	22.724	6.277	1.00	0.00
ATOM	2125	C21	LIG	112	3.526	20.463	7.241	1.00	0.00
ATOM	2126	H15	LIG	112	2.750	19.829	6.831	1.00	0.00
ATOM	2127	C22	LIG	112	4.301	21.259	6.398	1.00	0.00
ATOM	2128	H16	LIG	112	4.125	21.249	5.329	1.00	0.00
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ATOM	2129	S1	LIG	113	-21.474	14.187	14.974	1.00	0.00
ATOM	2130	S2	LIG	113	-20.512	15.272	7.345	1.00	0.00
ATOM	2131	O1	LIG	113	-18.262	11.156	9.660	1.00	0.00
ATOM	2132	H5	LIG	113	-18.063	11.075	8.703	1.00	0.00
ATOM	2133	O2	LIG	113	-20.310	14.584	16.005	1.00	0.00
ATOM	2134	H6	LIG	113	-19.826	13.716	16.156	1.00	0.00
ATOM	2135	O3	LIG	113	-21.309	14.337	6.307	1.00	0.00
ATOM	2136	H7	LIG	113	-20.650	13.621	6.073	1.00	0.00
ATOM	2137	O4	LIG	113	-22.145	15.417	14.606	1.00	0.00
ATOM	2138	O5	LIG	113	-22.225	13.048	15.484	1.00	0.00
ATOM	2139	O6	LIG	113	-21.449	16.272	7.813	1.00	0.00
ATOM	2140	O7	LIG	113	-19.226	15.649	6.779	1.00	0.00
ATOM	2141	O8	LIG	113	-18.009	7.389	19.774	1.00	0.00
ATOM	2142	O9	LIG	113	-17.777	9.102	21.087	1.00	0.00
ATOM	2143	N1	LIG	113	-18.318	10.923	12.302	1.00	0.00
ATOM	2144	H3	LIG	113	-17.978	10.524	11.442	1.00	0.00

ATOM	2145	H4	LIG	113	-18.146	10.480	13.192	1.00	0.00
ATOM	2146	N2	LIG	113	-19.281	11.675	14.600	1.00	0.00
ATOM	2147	N3	LIG	113	-18.828	12.338	7.478	1.00	0.00
ATOM	2148	N4	LIG	113	-19.375	12.099	15.789	1.00	0.00
ATOM	2149	N5	LIG	113	-19.245	12.614	6.320	1.00	0.00
ATOM	2150	N6	LIG	113	-18.031	8.592	20.004	1.00	0.00
ATOM	2151	C1	LIG	113	-19.479	12.667	11.062	1.00	0.00
ATOM	2152	C2	LIG	113	-20.311	13.821	11.123	1.00	0.00
ATOM	2153	C3	LIG	113	-19.147	11.981	12.290	1.00	0.00
ATOM	2154	C4	LIG	113	-20.535	13.603	13.527	1.00	0.00
ATOM	2155	C5	LIG	113	-20.832	14.259	12.366	1.00	0.00
ATOM	2156	H1	LIG	113	-21.496	15.114	12.392	1.00	0.00
ATOM	2157	C6	LIG	113	-19.030	12.259	9.779	1.00	0.00
ATOM	2158	C7	LIG	113	-20.177	14.129	8.715	1.00	0.00
ATOM	2159	C8	LIG	113	-20.626	14.537	9.942	1.00	0.00
ATOM	2160	H2	LIG	113	-21.227	15.435	10.012	1.00	0.00
ATOM	2161	C9	LIG	113	-19.675	12.456	13.536	1.00	0.00
ATOM	2162	C10	LIG	113	-19.378	12.952	8.596	1.00	0.00
ATOM	2163	C11	LIG	113	-19.040	11.175	16.797	1.00	0.00
ATOM	2164	C12	LIG	113	-18.590	11.988	5.243	1.00	0.00
ATOM	2165	C13	LIG	113	-19.009	9.785	16.595	1.00	0.00
ATOM	2166	H8	LIG	113	-19.272	9.381	15.626	1.00	0.00

ATOM	2167	C14	LIG	113	-18.769	11.706	18.066	1.00	0.00
ATOM	2168	H9	LIG	113	-18.820	12.776	18.218	1.00	0.00
ATOM	2169	C15	LIG	113	-18.678	8.941	17.642	1.00	0.00
ATOM	2170	H10	LIG	113	-18.656	7.868	17.518	1.00	0.00
ATOM	2171	C16	LIG	113	-18.430	10.866	19.117	1.00	0.00
ATOM	2172	H11	LIG	113	-18.207	11.253	20.101	1.00	0.00
ATOM	2173	C17	LIG	113	-18.385	9.494	18.888	1.00	0.00
ATOM	2174	C18	LIG	113	-17.344	11.347	5.346	1.00	0.00
ATOM	2175	H12	LIG	113	-16.818	11.342	6.291	1.00	0.00
ATOM	2176	C19	LIG	113	-19.243	12.056	4.004	1.00	0.00
ATOM	2177	H13	LIG	113	-20.192	12.575	3.932	1.00	0.00
ATOM	2178	C20	LIG	113	-16.783	10.759	4.223	1.00	0.00
ATOM	2179	H14	LIG	113	-15.817	10.272	4.295	1.00	0.00
ATOM	2180	C21	LIG	113	-18.678	11.454	2.887	1.00	0.00
ATOM	2181	H15	LIG	113	-19.190	11.500	1.934	1.00	0.00
ATOM	2182	C22	LIG	113	-17.449	10.802	2.993	1.00	0.00
ATOM	2183	H16	LIG	113	-17.002	10.343	2.120	1.00	0.00
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**Table O:** The number of atoms present in the system of HA-SIs

ATOM	1	N	PRO	1	7.519	-4.379	13.831	1.00	0.00
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ATOM	2	H2	PRO	1	8.006	-3.497	13.905	1.00	0.00
ATOM	3	H3	PRO	1	7.971	-5.231	14.129	1.00	0.00
ATOM	4	CD	PRO	1	6.253	-4.334	14.625	1.00	0.00
ATOM	5	HD2	PRO	1	6.187	-3.318	15.016	1.00	0.00
ATOM	6	HD3	PRO	1	6.398	-5.031	15.449	1.00	0.00
ATOM	7	CG	PRO	1	5.049	-4.707	13.747	1.00	0.00
ATOM	8	HG2	PRO	1	4.347	-3.873	13.722	1.00	0.00
ATOM	9	HG3	PRO	1	4.555	-5.584	14.164	1.00	0.00
ATOM	10	CB	PRO	1	5.609	-5.005	12.360	1.00	0.00
ATOM	11	HB2	PRO	1	5.058	-4.537	11.544	1.00	0.00
ATOM	12	HB3	PRO	1	5.629	-6.084	12.212	1.00	0.00
ATOM	13	CA	PRO	1	7.048	-4.453	12.404	1.00	0.00
ATOM	14	HA	PRO	1	7.641	-5.213	11.896	1.00	0.00
ATOM	15	C	PRO	1	7.188	-3.112	11.659	1.00	0.00
ATOM	16	O	PRO	1	6.216	-2.507	11.208	1.00	0.00
ATOM	17	N	TYR	2	8.432	-2.677	11.520	1.00	0.00
ATOM	18	H	TYR	2	9.194	-3.227	11.889	1.00	0.00
ATOM	19	CA	TYR	2	8.746	-1.425	10.854	1.00	0.00
ATOM	20	HA	TYR	2	7.870	-0.780	10.791	1.00	0.00
ATOM	21	CB	TYR	2	9.817	-0.716	11.686	1.00	0.00
ATOM	22	HB2	TYR	2	10.150	0.178	11.157	1.00	0.00
ATOM	23	HB3	TYR	2	9.323	-0.426	12.613	1.00	0.00

ATOM	24	CG	TYR	2	11.020	-1.594	12.005	1.00	0.00
ATOM	25	CD1	TYR	2	11.007	-2.420	13.149	1.00	0.00
ATOM	26	HD1	TYR	2	10.141	-2.417	13.810	1.00	0.00
ATOM	27	CE1	TYR	2	12.110	-3.247	13.437	1.00	0.00
ATOM	28	HE1	TYR	2	12.126	-3.837	14.353	1.00	0.00
ATOM	29	CZ	TYR	2	13.233	-3.235	12.587	1.00	0.00
ATOM	30	OH	TYR	2	14.290	-4.055	12.821	1.00	0.00
ATOM	31	HH	TYR	2	14.171	-4.607	13.596	1.00	0.00
ATOM	32	CE2	TYR	2	13.225	-2.439	11.432	1.00	0.00
ATOM	33	HE2	TYR	2	14.086	-2.460	10.763	1.00	0.00
ATOM	34	CD2	TYR	2	12.123	-1.619	11.133	1.00	0.00
ATOM	35	HD2	TYR	2	12.127	-1.008	10.230	1.00	0.00
ATOM	36	C	TYR	2	9.265	-1.667	9.445	1.00	0.00
ATOM	37	O	TYR	2	9.056	-0.818	8.596	1.00	0.00
ATOM	38	N	GLY	3	9.852	-2.850	9.210	1.00	0.00
ATOM	39	H	GLY	3	9.892	-3.523	9.961	1.00	0.00
ATOM	40	CA	GLY	3	10.430	-3.210	7.936	1.00	0.00
ATOM	41	HA2	GLY	3	10.769	-4.245	7.977	1.00	0.00
ATOM	42	HA3	GLY	3	9.673	-3.106	7.158	1.00	0.00
ATOM	43	C	GLY	3	11.616	-2.313	7.597	1.00	0.00
ATOM	44	O	GLY	3	11.565	-1.088	7.601	1.00	0.00
ATOM	45	N	ARG	4	12.756	-2.941	7.347	1.00	0.00

ATOM	46	H	ARG	4	12.828	-3.936	7.499	1.00	0.00
ATOM	47	CA	ARG	4	13.955	-2.215	6.940	1.00	0.00
ATOM	48	HA	ARG	4	13.784	-1.139	6.994	1.00	0.00
ATOM	49	CB	ARG	4	15.111	-2.575	7.879	1.00	0.00
ATOM	50	HB2	ARG	4	14.722	-2.676	8.892	1.00	0.00
ATOM	51	HB3	ARG	4	15.542	-3.523	7.558	1.00	0.00
ATOM	52	CG	ARG	4	16.195	-1.487	7.854	1.00	0.00
ATOM	53	HG2	ARG	4	16.035	-0.849	6.984	1.00	0.00
ATOM	54	HG3	ARG	4	16.115	-0.889	8.761	1.00	0.00
ATOM	55	CD	ARG	4	17.589	-2.113	7.777	1.00	0.00
ATOM	56	HD2	ARG	4	17.746	-2.757	8.641	1.00	0.00
ATOM	57	HD3	ARG	4	17.672	-2.703	6.864	1.00	0.00
ATOM	58	NE	ARG	4	18.633	-1.078	7.765	1.00	0.00
ATOM	59	HE	ARG	4	18.316	-0.130	7.619	1.00	0.00
ATOM	60	CZ	ARG	4	19.926	-1.293	7.913	1.00	0.00
ATOM	61	NH1	ARG	4	20.382	-2.504	8.105	1.00	0.00
ATOM	62	HH11	ARG	4	19.740	-3.282	8.140	1.00	0.00
ATOM	63	HH12	ARG	4	21.375	-2.654	8.216	1.00	0.00
ATOM	64	NH2	ARG	4	20.774	-0.301	7.885	1.00	0.00
ATOM	65	HH21	ARG	4	20.439	0.642	7.748	1.00	0.00
ATOM	66	HH22	ARG	4	21.761	-0.481	7.999	1.00	0.00
ATOM	67	C	ARG	4	14.311	-2.480	5.479	1.00	0.00

ATOM	68	O	ARG	4	15.395	-2.111	5.048	1.00	0.00
ATOM	69	N	GLY	5	13.470	-3.256	4.792	1.00	0.00
ATOM	70	H	GLY	5	12.630	-3.594	5.239	1.00	0.00
ATOM	71	CA	GLY	5	13.715	-3.634	3.422	1.00	0.00
ATOM	72	HA2	GLY	5	12.889	-4.247	3.061	1.00	0.00
ATOM	73	HA3	GLY	5	13.796	-2.737	2.807	1.00	0.00
ATOM	74	C	GLY	5	15.001	-4.425	3.311	1.00	0.00
ATOM	75	O	GLY	5	15.745	-4.241	2.363	1.00	0.00
ATOM	76	N	ARG	6	15.287	-5.268	4.311	1.00	0.00
ATOM	77	H	ARG	6	14.675	-5.282	5.114	1.00	0.00
ATOM	78	CA	ARG	6	16.479	-6.108	4.334	1.00	0.00
ATOM	79	HA	ARG	6	17.340	-5.532	3.995	1.00	0.00
ATOM	80	CB	ARG	6	16.757	-6.616	5.751	1.00	0.00
ATOM	81	HB2	ARG	6	17.521	-7.391	5.698	1.00	0.00
ATOM	82	HB3	ARG	6	17.125	-5.784	6.352	1.00	0.00
ATOM	83	CG	ARG	6	15.483	-7.194	6.398	1.00	0.00
ATOM	84	HG2	ARG	6	15.033	-6.427	7.029	1.00	0.00
ATOM	85	HG3	ARG	6	14.784	-7.469	5.608	1.00	0.00
ATOM	86	CD	ARG	6	15.807	-8.425	7.244	1.00	0.00
ATOM	87	HD2	ARG	6	16.885	-8.489	7.393	1.00	0.00
ATOM	88	HD3	ARG	6	15.311	-8.341	8.211	1.00	0.00
ATOM	89	NE	ARG	6	15.348	-9.658	6.584	1.00	0.00

ATOM	90	HE	ARG	6	15.096	-9.573	5.609	1.00	0.00
ATOM	91	CZ	ARG	6	15.266	-10.845	7.155	1.00	0.00
ATOM	92	NH1	ARG	6	15.581	-11.000	8.417	1.00	0.00
ATOM	93	HH11	ARG	6	15.889	-10.205	8.958	1.00	0.00
ATOM	94	HH12	ARG	6	15.514	-11.913	8.842	1.00	0.00
ATOM	95	NH2	ARG	6	14.847	-11.877	6.477	1.00	0.00
ATOM	96	HH21	ARG	6	14.583	-11.767	5.508	1.00	0.00
ATOM	97	HH22	ARG	6	14.788	-12.780	6.923	1.00	0.00
ATOM	98	C	ARG	6	16.378	-7.275	3.365	1.00	0.00
ATOM	99	O	ARG	6	16.522	-8.417	3.799	1.00	0.00
ATOM	100	N	THR	7	16.040	-7.007	2.120	1.00	0.00
ATOM	101	H	THR	7	15.907	-6.038	1.866	1.00	0.00
ATOM	102	CA	THR	7	15.785	-8.021	1.118	1.00	0.00
ATOM	103	HA	THR	7	16.449	-8.864	1.310	1.00	0.00
ATOM	104	CB	THR	7	14.326	-8.503	1.245	1.00	0.00
ATOM	105	HB	THR	7	14.059	-9.044	0.337	1.00	0.00
ATOM	106	CG2	THR	7	14.145	-9.423	2.461	1.00	0.00
ATOM	107	HG21	THR	7	14.411	-8.882	3.369	1.00	0.00
ATOM	108	HG22	THR	7	13.106	-9.745	2.521	1.00	0.00
ATOM	109	HG23	THR	7	14.790	-10.295	2.356	1.00	0.00
ATOM	110	OG1	THR	7	13.453	-7.404	1.460	1.00	0.00
ATOM	111	HG1	THR	7	12.551	-7.722	1.536	1.00	0.00



ATOM	112	C	THR	7	16.084	-7.465	-0.259	1.00	0.00
ATOM	113	O	THR	7	16.550	-6.337	-0.378	1.00	0.00
ATOM	114	N	GLU	8	15.841	-8.269	-1.284	1.00	0.00
ATOM	115	H	GLU	8	15.545	-9.218	-1.111	1.00	0.00
ATOM	116	CA	GLU	8	16.063	-7.856	-2.663	1.00	0.00
ATOM	117	HA	GLU	8	16.649	-6.937	-2.693	1.00	0.00
ATOM	118	CB	GLU	8	16.834	-8.953	-3.408	1.00	0.00
ATOM	119	HB2	GLU	8	16.379	-9.918	-3.186	1.00	0.00
ATOM	120	HB3	GLU	8	16.774	-8.762	-4.480	1.00	0.00
ATOM	121	CG	GLU	8	18.303	-8.969	-2.974	1.00	0.00
ATOM	122	HG2	GLU	8	18.431	-8.421	-2.041	1.00	0.00
ATOM	123	HG3	GLU	8	18.578	-10.013	-2.823	1.00	0.00
ATOM	124	CD	GLU	8	19.200	-8.357	-4.051	1.00	0.00
ATOM	125	OE1	GLU	8	19.506	-9.088	-5.020	1.00	0.00
ATOM	126	OE2	GLU	8	19.532	-7.159	-3.915	1.00	0.00
ATOM	127	C	GLU	8	14.741	-7.527	-3.355	1.00	0.00
ATOM	128	O	GLU	8	13.662	-7.525	-2.743	1.00	0.00
ATOM	129	N	SER	9	14.831	-7.209	-4.642	1.00	0.00
ATOM	130	H	SER	9	15.746	-7.094	-5.054	1.00	0.00
ATOM	131	CA	SER	9	13.668	-6.940	-5.466	1.00	0.00
ATOM	132	HA	SER	9	13.046	-6.189	-4.979	1.00	0.00
ATOM	133	CB	SER	9	14.072	-6.417	-6.853	1.00	0.00

ATOM	134	HB2	SER	9	13.461	-6.928	-7.597	1.00	0.00
ATOM	135	HB3	SER	9	13.863	-5.347	-6.884	1.00	0.00
ATOM	136	OG	SER	9	15.439	-6.637	-7.136	1.00	0.00
ATOM	137	HG	SER	9	15.644	-6.295	-8.010	1.00	0.00
ATOM	138	C	SER	9	12.774	-8.178	-5.605	1.00	0.00
ATOM	139	O	SER	9	13.126	-9.297	-5.236	1.00	0.00
ATOM	140	N	GLY	10	11.580	-7.985	-6.162	1.00	0.00
ATOM	141	H	GLY	10	11.292	-7.055	-6.434	1.00	0.00
ATOM	142	CA	GLY	10	10.658	-9.091	-6.397	1.00	0.00
ATOM	143	HA2	GLY	10	10.791	-9.455	-7.416	1.00	0.00
ATOM	144	HA3	GLY	10	10.878	-9.893	-5.693	1.00	0.00
ATOM	145	C	GLY	10	9.230	-8.658	-6.215	1.00	0.00
ATOM	146	O	GLY	10	8.640	-8.092	-7.125	1.00	0.00
ATOM	147	N	CYX	11	8.725	-8.761	-4.985	1.00	0.00
ATOM	148	H	CYX	11	9.252	-9.227	-4.260	1.00	0.00
ATOM	149	CA	CYX	11	7.400	-8.288	-4.671	1.00	0.00
ATOM	150	HA	CYX	11	6.682	-8.697	-5.382	1.00	0.00
ATOM	151	CB	CYX	11	7.002	-8.725	-3.271	1.00	0.00
ATOM	152	HB2	CYX	11	7.620	-8.205	-2.539	1.00	0.00
ATOM	153	HB3	CYX	11	5.953	-8.483	-3.099	1.00	0.00
ATOM	154	SG	CYX	11	7.118	-10.483	-2.918	1.00	0.00
ATOM	155	C	CYX	11	7.300	-6.764	-4.816	1.00	0.00

ATOM	156	O	CYX	11	6.213	-6.203	-4.786	1.00	0.00
ATOM	157	N	TYR	12	8.443	-6.097	-4.907	1.00	0.00
ATOM	158	H	TYR	12	9.295	-6.634	-4.831	1.00	0.00
ATOM	159	CA	TYR	12	8.548	-4.679	-5.126	1.00	0.00
ATOM	160	HA	TYR	12	7.802	-4.124	-4.557	1.00	0.00
ATOM	161	CB	TYR	12	9.931	-4.274	-4.639	1.00	0.00
ATOM	162	HB2	TYR	12	10.008	-4.604	-3.603	1.00	0.00
ATOM	163	HB3	TYR	12	10.668	-4.802	-5.244	1.00	0.00
ATOM	164	CG	TYR	12	10.190	-2.792	-4.714	1.00	0.00
ATOM	165	CD1	TYR	12	9.368	-1.900	-4.006	1.00	0.00
ATOM	166	HD1	TYR	12	8.542	-2.286	-3.410	1.00	0.00
ATOM	167	CE1	TYR	12	9.606	-0.516	-4.064	1.00	0.00
ATOM	168	HE1	TYR	12	8.941	0.175	-3.547	1.00	0.00
ATOM	169	CZ	TYR	12	10.656	-0.020	-4.856	1.00	0.00
ATOM	170	OH	TYR	12	10.921	1.314	-4.872	1.00	0.00
ATOM	171	HH	TYR	12	10.332	1.821	-4.309	1.00	0.00
ATOM	172	CE2	TYR	12	11.482	-0.915	-5.569	1.00	0.00
ATOM	173	HE2	TYR	12	12.307	-0.532	-6.171	1.00	0.00
ATOM	174	CD2	TYR	12	11.242	-2.300	-5.504	1.00	0.00
ATOM	175	HD2	TYR	12	11.872	-2.989	-6.067	1.00	0.00
ATOM	176	C	TYR	12	8.415	-4.313	-6.599	1.00	0.00
ATOM	177	O	TYR	12	7.752	-3.351	-6.937	1.00	0.00

ATOM	178	N	GLN	13	9.030	-5.103	-7.472	1.00	0.00
ATOM	179	H	GLN	13	9.574	-5.893	-7.157	1.00	0.00
ATOM	180	CA	GLN	13	8.959	-4.842	-8.894	1.00	0.00
ATOM	181	HA	GLN	13	9.329	-3.840	-9.115	1.00	0.00
ATOM	182	CB	GLN	13	9.824	-5.857	-9.640	1.00	0.00
ATOM	183	HB2	GLN	13	10.874	-5.646	-9.437	1.00	0.00
ATOM	184	HB3	GLN	13	9.580	-6.859	-9.288	1.00	0.00
ATOM	185	CG	GLN	13	9.569	-5.770	-11.150	1.00	0.00
ATOM	186	HG2	GLN	13	8.533	-6.022	-11.376	1.00	0.00
ATOM	187	HG3	GLN	13	9.765	-4.740	-11.449	1.00	0.00
ATOM	188	CD	GLN	13	10.475	-6.686	-11.948	1.00	0.00
ATOM	189	OE1	GLN	13	11.446	-7.246	-11.460	1.00	0.00
ATOM	190	NE2	GLN	13	10.153	-6.899	-13.203	1.00	0.00
ATOM	191	HE21	GLN	13	10.728	-7.502	-13.774	1.00	0.00
ATOM	192	HE22	GLN	13	9.332	-6.458	-13.593	1.00	0.00
ATOM	193	C	GLN	13	7.512	-4.936	-9.361	1.00	0.00
ATOM	194	O	GLN	13	7.043	-4.146	-10.143	1.00	0.00
ATOM	195	N	GLN	14	6.785	-5.946	-8.901	1.00	0.00
ATOM	196	H	GLN	14	7.210	-6.661	-8.329	1.00	0.00
ATOM	197	CA	GLN	14	5.384	-6.091	-9.259	1.00	0.00
ATOM	198	HA	GLN	14	5.267	-6.003	-10.340	1.00	0.00
ATOM	199	CB	GLN	14	4.860	-7.460	-8.820	1.00	0.00

ATOM	200	HB2	GLN	14	3.771	-7.422	-8.799	1.00	0.00
ATOM	201	HB3	GLN	14	5.183	-8.203	-9.549	1.00	0.00
ATOM	202	CG	GLN	14	5.382	-7.842	-7.440	1.00	0.00
ATOM	203	HG2	GLN	14	6.305	-8.401	-7.593	1.00	0.00
ATOM	204	HG3	GLN	14	5.599	-6.928	-6.887	1.00	0.00
ATOM	205	CD	GLN	14	4.444	-8.679	-6.631	1.00	0.00
ATOM	206	OE1	GLN	14	3.687	-9.436	-7.184	1.00	0.00
ATOM	207	NE2	GLN	14	4.478	-8.530	-5.314	1.00	0.00
ATOM	208	HE21	GLN	14	3.861	-9.076	-4.731	1.00	0.00
ATOM	209	HE22	GLN	14	5.121	-7.870	-4.900	1.00	0.00
ATOM	210	C	GLN	14	4.529	-4.981	-8.658	1.00	0.00
ATOM	211	O	GLN	14	3.510	-4.624	-9.218	1.00	0.00
ATOM	212	N	MET	15	4.923	-4.473	-7.496	1.00	0.00
ATOM	213	H	MET	15	5.764	-4.850	-7.084	1.00	0.00
ATOM	214	CA	MET	15	4.245	-3.408	-6.809	1.00	0.00
ATOM	215	HA	MET	15	3.272	-3.758	-6.467	1.00	0.00
ATOM	216	CB	MET	15	5.041	-2.938	-5.608	1.00	0.00
ATOM	217	HB2	MET	15	5.970	-3.506	-5.563	1.00	0.00
ATOM	218	HB3	MET	15	5.270	-1.879	-5.736	1.00	0.00
ATOM	219	CG	MET	15	4.272	-3.134	-4.334	1.00	0.00
ATOM	220	HG2	MET	15	3.263	-2.739	-4.451	1.00	0.00
ATOM	221	HG3	MET	15	4.221	-4.196	-4.097	1.00	0.00

ATOM	222	SD	MET	15	5.092	-2.269	-2.994	1.00	0.00
ATOM	223	CE	MET	15	5.931	-3.647	-2.261	1.00	0.00
ATOM	224	HE1	MET	15	6.605	-4.093	-2.992	1.00	0.00
ATOM	225	HE2	MET	15	6.505	-3.307	-1.399	1.00	0.00
ATOM	226	HE3	MET	15	5.200	-4.389	-1.941	1.00	0.00
ATOM	227	C	MET	15	4.071	-2.219	-7.709	1.00	0.00
ATOM	228	O	MET	15	2.969	-1.722	-7.761	1.00	0.00
ATOM	229	N	GLU	16	5.123	-1.745	-8.368	1.00	0.00
ATOM	230	H	GLU	16	6.034	-2.147	-8.198	1.00	0.00
ATOM	231	CA	GLU	16	5.025	-0.619	-9.293	1.00	0.00
ATOM	232	HA	GLU	16	4.770	0.293	-8.754	1.00	0.00
ATOM	233	CB	GLU	16	6.377	-0.413	-9.993	1.00	0.00
ATOM	234	HB2	GLU	16	6.478	0.645	-10.239	1.00	0.00
ATOM	235	HB3	GLU	16	7.169	-0.702	-9.302	1.00	0.00
ATOM	236	CG	GLU	16	6.488	-1.249	-11.277	1.00	0.00
ATOM	237	HG2	GLU	16	6.114	-2.233	-10.997	1.00	0.00
ATOM	238	HG3	GLU	16	5.869	-0.840	-12.076	1.00	0.00
ATOM	239	CD	GLU	16	7.930	-1.372	-11.763	1.00	0.00
ATOM	240	OE1	GLU	16	8.773	-1.939	-11.026	1.00	0.00
ATOM	241	OE2	GLU	16	8.230	-0.826	-12.845	1.00	0.00
ATOM	242	C	GLU	16	3.909	-0.837	-10.324	1.00	0.00
ATOM	243	O	GLU	16	3.226	0.108	-10.709	1.00	0.00

ATOM	244	N	GLU	17	3.695	-2.102	-10.702	1.00	0.00
ATOM	245	H	GLU	17	4.275	-2.835	-10.321	1.00	0.00
ATOM	246	CA	GLU	17	2.682	-2.461	-11.662	1.00	0.00
ATOM	247	HA	GLU	17	2.679	-1.743	-12.483	1.00	0.00
ATOM	248	CB	GLU	17	2.959	-3.858	-12.233	1.00	0.00
ATOM	249	HB2	GLU	17	3.994	-4.134	-12.031	1.00	0.00
ATOM	250	HB3	GLU	17	2.292	-4.581	-11.765	1.00	0.00
ATOM	251	CG	GLU	17	2.720	-3.849	-13.746	1.00	0.00
ATOM	252	HG2	GLU	17	2.130	-4.725	-14.014	1.00	0.00
ATOM	253	HG3	GLU	17	2.167	-2.946	-14.006	1.00	0.00
ATOM	254	CD	GLU	17	4.045	-3.873	-14.512	1.00	0.00
ATOM	255	OE1	GLU	17	4.933	-3.069	-14.177	1.00	0.00
ATOM	256	OE2	GLU	17	4.156	-4.709	-15.436	1.00	0.00
ATOM	257	C	GLU	17	1.308	-2.431	-11.001	1.00	0.00
ATOM	258	O	GLU	17	0.295	-2.192	-11.658	1.00	0.00
ATOM	259	N	ALA	18	1.248	-2.692	-9.697	1.00	0.00
ATOM	260	H	ALA	18	2.090	-3.006	-9.236	1.00	0.00
ATOM	261	CA	ALA	18	0.036	-2.630	-8.932	1.00	0.00
ATOM	262	HA	ALA	18	-0.808	-2.277	-9.525	1.00	0.00
ATOM	263	CB	ALA	18	-0.266	-4.042	-8.445	1.00	0.00
ATOM	264	HB1	ALA	18	0.567	-4.404	-7.843	1.00	0.00
ATOM	265	HB2	ALA	18	-1.174	-4.032	-7.842	1.00	0.00

ATOM	266	HB3	ALA	18	-0.407	-4.700	-9.303	1.00	0.00
ATOM	267	C	ALA	18	0.205	-1.619	-7.823	1.00	0.00
ATOM	268	O	ALA	18	0.299	-2.019	-6.676	1.00	0.00
ATOM	269	N	GLU	19	0.324	-0.330	-8.116	1.00	0.00
ATOM	270	H	GLU	19	0.379	-0.074	-9.092	1.00	0.00
ATOM	271	CA	GLU	19	0.495	0.715	-7.119	1.00	0.00
ATOM	272	HA	GLU	19	1.290	0.443	-6.426	1.00	0.00
ATOM	273	CB	GLU	19	0.871	2.034	-7.800	1.00	0.00
ATOM	274	HB2	GLU	19	1.918	1.985	-8.101	1.00	0.00
ATOM	275	HB3	GLU	19	0.246	2.160	-8.684	1.00	0.00
ATOM	276	CG	GLU	19	0.668	3.216	-6.863	1.00	0.00
ATOM	277	HG2	GLU	19	0.478	2.942	-5.826	1.00	0.00
ATOM	278	HG3	GLU	19	1.604	3.772	-6.927	1.00	0.00
ATOM	279	CD	GLU	19	-0.504	4.107	-7.389	1.00	0.00
ATOM	280	OE1	GLU	19	-1.486	3.718	-8.066	1.00	0.00
ATOM	281	OE2	GLU	19	-0.527	5.285	-7.015	1.00	0.00
ATOM	282	C	GLU	19	-0.804	0.776	-6.266	1.00	0.00
ATOM	283	O	GLU	19	-1.646	1.667	-6.249	1.00	0.00
ATOM	284	N	MET	20	-1.028	-0.180	-5.410	1.00	0.00
ATOM	285	H	MET	20	-0.359	-0.931	-5.317	1.00	0.00
ATOM	286	CA	MET	20	-2.220	-0.221	-4.600	1.00	0.00
ATOM	287	HA	MET	20	-3.000	0.410	-5.028	1.00	0.00



ATOM	288	CB	MET	20	-2.721	-1.645	-4.555	1.00	0.00
ATOM	289	HB2	MET	20	-3.791	-1.607	-4.351	1.00	0.00
ATOM	290	HB3	MET	20	-2.554	-2.080	-5.541	1.00	0.00
ATOM	291	CG	MET	20	-2.041	-2.490	-3.512	1.00	0.00
ATOM	292	HG2	MET	20	-1.055	-2.054	-3.348	1.00	0.00
ATOM	293	HG3	MET	20	-2.633	-2.402	-2.601	1.00	0.00
ATOM	294	SD	MET	20	-1.860	-4.197	-3.924	1.00	0.00
ATOM	295	CE	MET	20	-0.591	-4.115	-5.145	1.00	0.00
ATOM	296	HE1	MET	20	0.306	-3.675	-4.709	1.00	0.00
ATOM	297	HE2	MET	20	-0.365	-5.119	-5.504	1.00	0.00
ATOM	298	HE3	MET	20	-0.928	-3.499	-5.980	1.00	0.00
ATOM	299	C	MET	20	-1.873	0.287	-3.229	1.00	0.00
ATOM	300	O	MET	20	-2.767	0.622	-2.453	1.00	0.00
ATOM	301	N	LEU	21	-0.573	0.307	-2.912	1.00	0.00
ATOM	302	H	LEU	21	0.099	-0.074	-3.563	1.00	0.00
ATOM	303	CA	LEU	21	-0.101	0.748	-1.623	1.00	0.00
ATOM	304	HA	LEU	21	-0.852	0.551	-0.859	1.00	0.00
ATOM	305	CB	LEU	21	1.169	-0.004	-1.262	1.00	0.00
ATOM	306	HB2	LEU	21	1.836	0.352	-2.048	1.00	0.00
ATOM	307	HB3	LEU	21	1.554	0.307	-0.291	1.00	0.00
ATOM	308	CG	LEU	21	1.089	-1.543	-1.314	1.00	0.00
ATOM	309	HG	LEU	21	1.857	-1.931	-0.645	1.00	0.00

ATOM	310	CD1 LEU	21	-0.263	-2.097	-0.908	1.00	0.00
ATOM	311	HD11 LEU	21	-1.031	-1.709	-1.578	1.00	0.00
ATOM	312	HD12 LEU	21	-0.243	-3.185	-0.970	1.00	0.00
ATOM	313	HD13 LEU	21	-0.488	-1.795	0.114	1.00	0.00
ATOM	314	CD2 LEU	21	1.539	-2.032	-2.678	1.00	0.00
ATOM	315	HD21 LEU	21	2.567	-1.717	-2.857	1.00	0.00
ATOM	316	HD22 LEU	21	1.482	-3.120	-2.712	1.00	0.00
ATOM	317	HD23 LEU	21	0.892	-1.610	-3.448	1.00	0.00
ATOM	318	C LEU	21	0.063	2.256	-1.627	1.00	0.00
ATOM	319	O LEU	21	0.635	2.824	-0.710	1.00	0.00
ATOM	320	N ASN	22	-0.511	2.899	-2.642	1.00	0.00
ATOM	321	H ASN	22	-1.008	2.373	-3.347	1.00	0.00
ATOM	322	CA ASN	22	-0.482	4.331	-2.755	1.00	0.00
ATOM	323	HA ASN	22	0.309	4.739	-2.126	1.00	0.00
ATOM	324	CB ASN	22	-0.216	4.735	-4.188	1.00	0.00
ATOM	325	HB2 ASN	22	0.730	4.474	-4.662	1.00	0.00
ATOM	326	HB3 ASN	22	-1.020	4.156	-4.641	1.00	0.00
ATOM	327	CG ASN	22	-0.489	6.218	-4.428	1.00	0.00
ATOM	328	OD1 ASN	22	-1.576	6.653	-4.792	1.00	0.00
ATOM	329	ND2 ASN	22	0.419	7.031	-3.938	1.00	0.00
ATOM	330	HD21 ASN	22	0.314	8.029	-4.054	1.00	0.00
ATOM	331	HD22 ASN	22	1.218	6.655	-3.449	1.00	0.00

ATOM	332	C	ASN	22	-1.827	4.893	-2.361	1.00	0.00
ATOM	333	O	ASN	22	-1.881	5.910	-1.698	1.00	0.00
ATOM	334	N	HIE	23	-2.925	4.216	-2.709	1.00	0.00
ATOM	335	H	HIE	23	-2.825	3.362	-3.238	1.00	0.00
ATOM	336	CA	HIE	23	-4.261	4.678	-2.396	1.00	0.00
ATOM	337	HA	HIE	23	-4.367	5.732	-2.655	1.00	0.00
ATOM	338	CB	HIE	23	-5.277	3.875	-3.199	1.00	0.00
ATOM	339	HB2	HIE	23	-5.104	2.806	-3.081	1.00	0.00
ATOM	340	HB3	HIE	23	-6.284	4.120	-2.861	1.00	0.00
ATOM	341	CG	HIE	23	-5.240	4.156	-4.674	1.00	0.00
ATOM	342	ND1	HIE	23	-6.199	4.871	-5.365	1.00	0.00
ATOM	343	CE1	HIE	23	-5.830	4.905	-6.666	1.00	0.00
ATOM	344	HE1	HIE	23	-6.451	5.428	-7.393	1.00	0.00
ATOM	345	NE2	HIE	23	-4.666	4.226	-6.816	1.00	0.00
ATOM	346	HE2	HIE	23	-4.153	4.082	-7.675	1.00	0.00
ATOM	347	CD2	HIE	23	-4.284	3.752	-5.574	1.00	0.00
ATOM	348	HD2	HIE	23	-3.365	3.175	-5.470	1.00	0.00
ATOM	349	C	HIE	23	-4.503	4.535	-0.907	1.00	0.00
ATOM	350	O	HIE	23	-4.760	5.542	-0.252	1.00	0.00
ATOM	351	N	CYX	24	-4.435	3.297	-0.393	1.00	0.00
ATOM	352	H	CYX	24	-4.305	2.500	-1.000	1.00	0.00
ATOM	353	CA	CYX	24	-4.578	3.060	1.038	1.00	0.00

ATOM	354	HA	CYX	24	-5.577	3.358	1.356	1.00	0.00
ATOM	355	CB	CYX	24	-4.376	1.586	1.379	1.00	0.00
ATOM	356	HB2	CYX	24	-3.966	1.066	0.513	1.00	0.00
ATOM	357	HB3	CYX	24	-3.684	1.498	2.216	1.00	0.00
ATOM	358	SG	CYX	24	-5.875	0.717	1.841	1.00	0.00
ATOM	359	C	CYX	24	-3.569	3.903	1.806	1.00	0.00
ATOM	360	O	CYX	24	-3.893	4.336	2.890	1.00	0.00
ATOM	361	N	GLY	25	-2.426	4.230	1.200	1.00	0.00
ATOM	362	H	GLY	25	-2.255	3.857	0.277	1.00	0.00
ATOM	363	CA	GLY	25	-1.427	5.082	1.787	1.00	0.00
ATOM	364	HA2	GLY	25	-1.237	4.753	2.808	1.00	0.00
ATOM	365	HA3	GLY	25	-0.509	5.004	1.204	1.00	0.00
ATOM	366	C	GLY	25	-1.872	6.523	1.811	1.00	0.00
ATOM	367	O	GLY	25	-1.836	7.136	2.861	1.00	0.00
ATOM	368	N	MET	26	-2.411	7.041	0.716	1.00	0.00
ATOM	369	H	MET	26	-2.542	6.415	-0.066	1.00	0.00
ATOM	370	CA	MET	26	-2.856	8.405	0.581	1.00	0.00
ATOM	371	HA	MET	26	-2.005	9.080	0.681	1.00	0.00
ATOM	372	CB	MET	26	-3.501	8.633	-0.783	1.00	0.00
ATOM	373	HB2	MET	26	-3.433	7.712	-1.361	1.00	0.00
ATOM	374	HB3	MET	26	-4.549	8.893	-0.636	1.00	0.00
ATOM	375	CG	MET	26	-2.802	9.755	-1.535	1.00	0.00

ATOM	376	HG2 MET	26	-3.412	10.658	-1.488	1.00	0.00
ATOM	377	HG3 MET	26	-1.832	9.948	-1.077	1.00	0.00
ATOM	378	SD MET	26	-2.561	9.295	-3.257	1.00	0.00
ATOM	379	CE MET	26	-1.225	10.430	-3.687	1.00	0.00
ATOM	380	HE1 MET	26	-0.363	10.236	-3.049	1.00	0.00
ATOM	381	HE2 MET	26	-0.944	10.284	-4.730	1.00	0.00
ATOM	382	HE3 MET	26	-1.559	11.458	-3.543	1.00	0.00
ATOM	383	C MET	26	-3.902	8.710	1.608	1.00	0.00
ATOM	384	O MET	26	-3.821	9.753	2.212	1.00	0.00
ATOM	385	N TYR	27	-4.910	7.862	1.774	1.00	0.00
ATOM	386	H TYR	27	-4.962	7.057	1.167	1.00	0.00
ATOM	387	CA TYR	27	-5.935	8.026	2.793	1.00	0.00
ATOM	388	HA TYR	27	-6.655	8.798	2.520	1.00	0.00
ATOM	389	CB TYR	27	-6.665	6.691	2.892	1.00	0.00
ATOM	390	HB2 TYR	27	-7.100	6.500	1.911	1.00	0.00
ATOM	391	HB3 TYR	27	-5.922	5.925	3.115	1.00	0.00
ATOM	392	CG TYR	27	-7.753	6.658	3.940	1.00	0.00
ATOM	393	CD1 TYR	27	-8.902	7.449	3.773	1.00	0.00
ATOM	394	HD1 TYR	27	-9.007	8.081	2.890	1.00	0.00
ATOM	395	CE1 TYR	27	-9.918	7.426	4.746	1.00	0.00
ATOM	396	HE1 TYR	27	-10.821	8.020	4.606	1.00	0.00
ATOM	397	CZ TYR	27	-9.783	6.603	5.884	1.00	0.00

ATOM	398	OH	TYR	27	-10.747	6.589	6.843	1.00	0.00
ATOM	399	HH	TYR	27	-11.479	7.178	6.647	1.00	0.00
ATOM	400	CE2	TYR	27	-8.628	5.819	6.052	1.00	0.00
ATOM	401	HE2	TYR	27	-8.523	5.188	6.934	1.00	0.00
ATOM	402	CD2	TYR	27	-7.609	5.849	5.083	1.00	0.00
ATOM	403	HD2	TYR	27	-6.710	5.247	5.218	1.00	0.00
ATOM	404	C	TYR	27	-5.358	8.375	4.161	1.00	0.00
ATOM	405	O	TYR	27	-5.898	9.213	4.875	1.00	0.00
ATOM	406	N	LEU	28	-4.202	7.798	4.470	1.00	0.00
ATOM	407	H	LEU	28	-3.801	7.136	3.821	1.00	0.00
ATOM	408	CA	LEU	28	-3.522	8.027	5.722	1.00	0.00
ATOM	409	HA	LEU	28	-4.244	8.324	6.483	1.00	0.00
ATOM	410	CB	LEU	28	-2.814	6.764	6.189	1.00	0.00
ATOM	411	HB2	LEU	28	-1.861	6.831	5.663	1.00	0.00
ATOM	412	HB3	LEU	28	-2.639	6.806	7.264	1.00	0.00
ATOM	413	CG	LEU	28	-3.505	5.435	5.833	1.00	0.00
ATOM	414	HG	LEU	28	-4.205	5.618	5.017	1.00	0.00
ATOM	415	CD1	LEU	28	-2.498	4.378	5.409	1.00	0.00
ATOM	416	HD11	LEU	28	-1.798	4.195	6.224	1.00	0.00
ATOM	417	HD12	LEU	28	-3.021	3.454	5.165	1.00	0.00
ATOM	418	HD13	LEU	28	-1.951	4.727	4.533	1.00	0.00
ATOM	419	CD2	LEU	28	-4.368	4.962	6.965	1.00	0.00

ATOM	420	HD21	LEU	28	-5.133	5.710	7.176	1.00	0.00
ATOM	421	HD22	LEU	28	-4.846	4.022	6.690	1.00	0.00
ATOM	422	HD23	LEU	28	-3.753	4.811	7.852	1.00	0.00
ATOM	423	C	LEU	28	-2.545	9.180	5.564	1.00	0.00
ATOM	424	O	LEU	28	-2.329	9.914	6.511	1.00	0.00
ATOM	425	N	MET	29	-2.055	9.438	4.355	1.00	0.00
ATOM	426	H	MET	29	-2.247	8.731	3.660	1.00	0.00
ATOM	427	CA	MET	29	-1.217	10.553	3.982	1.00	0.00
ATOM	428	HA	MET	29	-0.575	10.840	4.815	1.00	0.00
ATOM	429	CB	MET	29	-0.336	10.155	2.803	1.00	0.00
ATOM	430	HB2	MET	29	-0.538	9.114	2.551	1.00	0.00
ATOM	431	HB3	MET	29	-0.584	10.789	1.951	1.00	0.00
ATOM	432	CG	MET	29	1.135	10.317	3.143	1.00	0.00
ATOM	433	HG2	MET	29	1.310	9.913	4.139	1.00	0.00
ATOM	434	HG3	MET	29	1.725	9.759	2.416	1.00	0.00
ATOM	435	SD	MET	29	1.635	12.041	3.110	1.00	0.00
ATOM	436	CE	MET	29	1.630	12.289	1.325	1.00	0.00
ATOM	437	HE1	MET	29	0.631	12.100	0.934	1.00	0.00
ATOM	438	HE2	MET	29	1.919	13.316	1.099	1.00	0.00
ATOM	439	HE3	MET	29	2.338	11.603	0.860	1.00	0.00
ATOM	440	C	MET	29	-2.005	11.824	3.683	1.00	0.00
ATOM	441	O	MET	29	-1.471	12.815	3.198	1.00	0.00

ATOM	442	N	LYS	30	-3.313	11.807	3.910	1.00	0.00
ATOM	443	H	LYS	30	-3.736	10.948	4.229	1.00	0.00
ATOM	444	CA	LYS	30	-4.173	12.937	3.644	1.00	0.00
ATOM	445	HA	LYS	30	-3.831	13.473	2.758	1.00	0.00
ATOM	446	CB	LYS	30	-5.603	12.443	3.396	1.00	0.00
ATOM	447	HB2	LYS	30	-5.672	11.389	3.662	1.00	0.00
ATOM	448	HB3	LYS	30	-6.295	13.019	4.010	1.00	0.00
ATOM	449	CG	LYS	30	-5.964	12.620	1.916	1.00	0.00
ATOM	450	HG2	LYS	30	-5.053	12.577	1.318	1.00	0.00
ATOM	451	HG3	LYS	30	-6.635	11.817	1.613	1.00	0.00
ATOM	452	CD	LYS	30	-6.654	13.971	1.698	1.00	0.00
ATOM	453	HD2	LYS	30	-7.562	13.795	1.122	1.00	0.00
ATOM	454	HD3	LYS	30	-6.917	14.376	2.675	1.00	0.00
ATOM	455	CE	LYS	30	-5.769	14.967	0.958	1.00	0.00
ATOM	456	HE2	LYS	30	-6.193	15.966	1.066	1.00	0.00
ATOM	457	HE3	LYS	30	-4.771	14.947	1.396	1.00	0.00
ATOM	458	NZ	LYS	30	-5.683	14.620	-0.484	1.00	0.00
ATOM	459	HZ1	LYS	30	-6.607	14.639	-0.891	1.00	0.00
ATOM	460	HZ2	LYS	30	-5.093	15.290	-0.957	1.00	0.00
ATOM	461	HZ3	LYS	30	-5.290	13.696	-0.585	1.00	0.00
ATOM	462	C	LYS	30	-4.074	13.904	4.801	1.00	0.00
ATOM	463	O	LYS	30	-4.379	15.068	4.590	1.00	0.00



ATOM	464	N	ASN	31	-3.684	13.404	5.977	1.00	0.00
ATOM	465	H	ASN	31	-3.556	12.407	6.069	1.00	0.00
ATOM	466	CA	ASN	31	-3.447	14.241	7.143	1.00	0.00
ATOM	467	HA	ASN	31	-3.862	15.238	6.995	1.00	0.00
ATOM	468	CB	ASN	31	-4.137	13.597	8.348	1.00	0.00
ATOM	469	HB2	ASN	31	-4.117	12.510	8.283	1.00	0.00
ATOM	470	HB3	ASN	31	-3.601	13.918	9.241	1.00	0.00
ATOM	471	CG	ASN	31	-5.573	14.047	8.460	1.00	0.00
ATOM	472	OD1	ASN	31	-5.976	14.763	9.351	1.00	0.00
ATOM	473	ND2	ASN	31	-6.376	13.659	7.498	1.00	0.00
ATOM	474	HD21	ASN	31	-7.349	13.929	7.517	1.00	0.00
ATOM	475	HD22	ASN	31	-6.017	13.093	6.742	1.00	0.00
ATOM	476	C	ASN	31	-1.956	14.394	7.432	1.00	0.00
ATOM	477	O	ASN	31	-1.592	15.143	8.327	1.00	0.00
ATOM	478	N	LEU	32	-1.131	13.641	6.703	1.00	0.00
ATOM	479	H	LEU	32	-1.503	12.963	6.054	1.00	0.00
ATOM	480	CA	LEU	32	0.290	13.709	6.874	1.00	0.00
ATOM	481	HA	LEU	32	0.527	13.949	7.910	1.00	0.00
ATOM	482	CB	LEU	32	0.933	12.373	6.524	1.00	0.00
ATOM	483	HB2	LEU	32	0.590	12.140	5.515	1.00	0.00
ATOM	484	HB3	LEU	32	2.019	12.473	6.523	1.00	0.00
ATOM	485	CG	LEU	32	0.527	11.251	7.470	1.00	0.00

ATOM	486	HG	LEU	32	-0.542	11.323	7.667	1.00	0.00
ATOM	487	CD1	LEU	32	0.838	9.899	6.853	1.00	0.00
ATOM	488	HD11	LEU	32	1.908	9.827	6.655	1.00	0.00
ATOM	489	HD12	LEU	32	0.542	9.108	7.541	1.00	0.00
ATOM	490	HD13	LEU	32	0.288	9.791	5.918	1.00	0.00
ATOM	491	CD2	LEU	32	1.232	11.411	8.804	1.00	0.00
ATOM	492	HD21	LEU	32	0.959	12.369	9.247	1.00	0.00
ATOM	493	HD22	LEU	32	0.934	10.604	9.472	1.00	0.00
ATOM	494	HD23	LEU	32	2.311	11.377	8.651	1.00	0.00
ATOM	495	C	LEU	32	0.850	14.834	6.047	1.00	0.00
ATOM	496	O	LEU	32	1.911	15.264	6.451	1.00	0.00
ATOM	497	N	GLY	33	0.137	15.298	4.994	1.00	0.00
ATOM	498	H	GLY	33	-0.747	14.844	4.814	1.00	0.00
ATOM	499	CA	GLY	33	0.545	16.385	4.116	1.00	0.00
ATOM	500	HA2	GLY	33	0.022	16.285	3.164	1.00	0.00
ATOM	501	HA3	GLY	33	0.275	17.334	4.580	1.00	0.00
ATOM	502	C	GLY	33	2.048	16.369	3.860	1.00	0.00
ATOM	503	O	GLY	33	2.828	17.051	4.516	1.00	0.00
ATOM	504	N	GLU	34	2.454	15.624	2.840	1.00	0.00
ATOM	505	H	GLU	34	1.797	15.086	2.294	1.00	0.00
ATOM	506	CA	GLU	34	3.870	15.503	2.530	1.00	0.00
ATOM	507	HA	GLU	34	4.448	15.504	3.454	1.00	0.00

ATOM	508	CB	GLU	34	4.155	14.203	1.777	1.00	0.00
ATOM	509	HB2	GLU	34	3.848	13.363	2.399	1.00	0.00
ATOM	510	HB3	GLU	34	3.577	14.200	0.852	1.00	0.00
ATOM	511	CG	GLU	34	5.644	14.076	1.448	1.00	0.00
ATOM	512	HG2	GLU	34	5.789	13.077	1.038	1.00	0.00
ATOM	513	HG3	GLU	34	5.920	14.819	0.699	1.00	0.00
ATOM	514	CD	GLU	34	6.523	14.251	2.687	1.00	0.00
ATOM	515	OE1	GLU	34	6.039	13.996	3.807	1.00	0.00
ATOM	516	OE2	GLU	34	7.681	14.679	2.522	1.00	0.00
ATOM	517	C	GLU	34	4.347	16.712	1.733	1.00	0.00
ATOM	518	O	GLU	34	4.562	16.638	0.521	1.00	0.00
ATOM	519	N	ARG	35	4.356	17.883	2.366	1.00	0.00
ATOM	520	H	ARG	35	4.024	17.933	3.318	1.00	0.00
ATOM	521	CA	ARG	35	4.796	19.108	1.727	1.00	0.00
ATOM	522	HA	ARG	35	5.817	18.991	1.364	1.00	0.00
ATOM	523	CB	ARG	35	3.884	19.445	0.531	1.00	0.00
ATOM	524	HB2	ARG	35	3.591	18.520	0.036	1.00	0.00
ATOM	525	HB3	ARG	35	2.995	19.959	0.896	1.00	0.00
ATOM	526	CG	ARG	35	4.616	20.341	-0.461	1.00	0.00
ATOM	527	HG2	ARG	35	3.999	21.218	-0.662	1.00	0.00
ATOM	528	HG3	ARG	35	5.560	20.656	-0.017	1.00	0.00
ATOM	529	CD	ARG	35	4.892	19.599	-1.775	1.00	0.00

ATOM	530	HD2	ARG	35	4.903	18.525	-1.590	1.00	0.00
ATOM	531	HD3	ARG	35	4.110	19.836	-2.497	1.00	0.00
ATOM	532	NE	ARG	35	6.191	19.992	-2.343	1.00	0.00
ATOM	533	HE	ARG	35	6.821	20.475	-1.719	1.00	0.00
ATOM	534	CZ	ARG	35	6.603	19.718	-3.564	1.00	0.00
ATOM	535	NH1	ARG	35	5.826	19.094	-4.414	1.00	0.00
ATOM	536	HH11	ARG	35	4.896	18.817	-4.134	1.00	0.00
ATOM	537	HH12	ARG	35	6.161	18.894	-5.346	1.00	0.00
ATOM	538	NH2	ARG	35	7.781	20.118	-3.965	1.00	0.00
ATOM	539	HH21	ARG	35	8.376	20.639	-3.336	1.00	0.00
ATOM	540	HH22	ARG	35	8.091	19.905	-4.903	1.00	0.00
ATOM	541	C	ARG	35	4.776	20.230	2.741	1.00	0.00
ATOM	542	O	ARG	35	5.829	20.745	3.077	1.00	0.00
ATOM	543	N	SER	36	3.571	20.661	3.125	1.00	0.00
ATOM	544	H	SER	36	2.753	20.229	2.720	1.00	0.00
ATOM	545	CA	SER	36	3.379	21.737	4.084	1.00	0.00
ATOM	546	HA	SER	36	3.894	21.509	5.017	1.00	0.00
ATOM	547	CB	SER	36	3.953	23.037	3.514	1.00	0.00
ATOM	548	HB2	SER	36	5.031	22.925	3.399	1.00	0.00
ATOM	549	HB3	SER	36	3.502	23.224	2.539	1.00	0.00
ATOM	550	OG	SER	36	3.684	24.118	4.368	1.00	0.00
ATOM	551	HG	SER	36	4.052	24.922	3.992	1.00	0.00

ATOM	552	C	SER	36	1.895	21.905	4.376	1.00	0.00
ATOM	553	O	SER	36	1.446	21.686	5.494	1.00	0.00
ATOM	554	N	GLN	37	1.113	22.242	3.344	1.00	0.00
ATOM	555	H	GLN	37	1.528	22.411	2.438	1.00	0.00
ATOM	556	CA	GLN	37	-0.323	22.440	3.493	1.00	0.00
ATOM	557	HA	GLN	37	-0.758	21.618	4.060	1.00	0.00
ATOM	558	CB	GLN	37	-0.593	23.746	4.241	1.00	0.00
ATOM	559	HB2	GLN	37	0.131	23.860	5.048	1.00	0.00
ATOM	560	HB3	GLN	37	-0.502	24.586	3.551	1.00	0.00
ATOM	561	CG	GLN	37	-2.007	23.717	4.825	1.00	0.00
ATOM	562	HG2	GLN	37	-2.736	23.886	4.032	1.00	0.00
ATOM	563	HG3	GLN	37	-2.174	22.736	5.269	1.00	0.00
ATOM	564	CD	GLN	37	-2.203	24.776	5.898	1.00	0.00
ATOM	565	OE1	GLN	37	-1.301	25.466	6.334	1.00	0.00
ATOM	566	NE2	GLN	37	-3.426	24.945	6.348	1.00	0.00
ATOM	567	HE21	GLN	37	-3.607	25.637	7.061	1.00	0.00
ATOM	568	HE22	GLN	37	-4.179	24.383	5.978	1.00	0.00
ATOM	569	C	GLN	37	-1.005	22.435	2.133	1.00	0.00
ATOM	570	O	GLN	37	-1.392	23.462	1.581	1.00	0.00
ATOM	571	N	VAL	38	-1.024	21.264	1.508	1.00	0.00
ATOM	572	H	VAL	38	-0.514	20.476	1.880	1.00	0.00
ATOM	573	CA	VAL	38	-1.680	21.114	0.217	1.00	0.00

ATOM	574	HA	VAL	38	-1.467	21.952	-0.448	1.00	0.00
ATOM	575	CB	VAL	38	-1.216	19.823	-0.460	1.00	0.00
ATOM	576	HB	VAL	38	-1.743	19.698	-1.406	1.00	0.00
ATOM	577	CG1	VAL	38	0.294	19.899	-0.723	1.00	0.00
ATOM	578	HG11	VAL	38	0.822	20.024	0.222	1.00	0.00
ATOM	579	HG12	VAL	38	0.626	18.980	-1.206	1.00	0.00
ATOM	580	HG13	VAL	38	0.508	20.748	-1.373	1.00	0.00
ATOM	581	CG2	VAL	38	-1.543	18.586	0.385	1.00	0.00
ATOM	582	HG21	VAL	38	-2.620	18.524	0.536	1.00	0.00
ATOM	583	HG22	VAL	38	-1.197	17.691	-0.132	1.00	0.00
ATOM	584	HG23	VAL	38	-1.044	18.664	1.351	1.00	0.00
ATOM	585	C	VAL	38	-3.191	21.185	0.370	1.00	0.00
ATOM	586	O	VAL	38	-3.695	21.206	1.494	1.00	0.00
ATOM	587	N	SER	39	-3.902	21.193	-0.763	1.00	0.00
ATOM	588	H	SER	39	-3.425	21.246	-1.652	1.00	0.00
ATOM	589	CA	SER	39	-5.354	21.217	-0.759	1.00	0.00
ATOM	590	HA	SER	39	-5.703	22.170	-0.361	1.00	0.00
ATOM	591	CB	SER	39	-5.909	21.047	-2.188	1.00	0.00
ATOM	592	HB2	SER	39	-6.743	21.739	-2.308	1.00	0.00
ATOM	593	HB3	SER	39	-5.116	21.310	-2.889	1.00	0.00
ATOM	594	OG	SER	39	-6.351	19.722	-2.449	1.00	0.00
ATOM	595	HG	SER	39	-6.686	19.668	-3.347	1.00	0.00

ATOM	596	C	SER	39	-5.932	20.151	0.185	1.00	0.00
ATOM	597	O	SER	39	-5.297	19.142	0.532	1.00	0.00
ATOM	598	N	PRO	40	-7.221	20.291	0.499	1.00	0.00
ATOM	599	CD	PRO	40	-8.120	21.341	0.049	1.00	0.00
ATOM	600	HD2	PRO	40	-8.265	21.220	-1.025	1.00	0.00
ATOM	601	HD3	PRO	40	-7.639	22.300	0.243	1.00	0.00
ATOM	602	CG	PRO	40	-9.414	21.169	0.839	1.00	0.00
ATOM	603	HG2	PRO	40	-10.225	20.936	0.149	1.00	0.00
ATOM	604	HG3	PRO	40	-9.639	22.099	1.361	1.00	0.00
ATOM	605	CB	PRO	40	-9.178	20.031	1.828	1.00	0.00
ATOM	606	HB2	PRO	40	-10.013	19.332	1.800	1.00	0.00
ATOM	607	HB3	PRO	40	-9.047	20.400	2.845	1.00	0.00
ATOM	608	CA	PRO	40	-7.895	19.331	1.355	1.00	0.00
ATOM	609	HA	PRO	40	-7.263	19.139	2.221	1.00	0.00
ATOM	610	C	PRO	40	-8.168	18.015	0.621	1.00	0.00
ATOM	611	O	PRO	40	-7.607	17.685	-0.431	1.00	0.00
ATOM	612	N	ARG	41	-9.025	17.183	1.206	1.00	0.00
ATOM	613	H	ARG	41	-9.361	17.405	2.132	1.00	0.00
ATOM	614	CA	ARG	41	-9.446	15.945	0.606	1.00	0.00
ATOM	615	HA	ARG	41	-8.599	15.468	0.113	1.00	0.00
ATOM	616	CB	ARG	41	-9.995	14.991	1.670	1.00	0.00
ATOM	617	HB2	ARG	41	-9.368	15.052	2.559	1.00	0.00

ATOM	618	HB3 ARG	41	-11.013	15.287	1.922	1.00	0.00
ATOM	619	CG ARG	41	-9.997	13.545	1.142	1.00	0.00
ATOM	620	HG2 ARG	41	-9.415	13.525	0.220	1.00	0.00
ATOM	621	HG3 ARG	41	-9.515	12.915	1.889	1.00	0.00
ATOM	622	CD ARG	41	-11.404	13.022	0.866	1.00	0.00
ATOM	623	HD2 ARG	41	-12.131	13.814	1.048	1.00	0.00
ATOM	624	HD3 ARG	41	-11.476	12.695	-0.172	1.00	0.00
ATOM	625	NE ARG	41	-11.715	11.891	1.736	1.00	0.00
ATOM	626	HE ARG	41	-11.643	10.973	1.323	1.00	0.00
ATOM	627	CZ ARG	41	-12.175	11.993	2.970	1.00	0.00
ATOM	628	NH1 ARG	41	-12.325	13.164	3.542	1.00	0.00
ATOM	629	HH11 ARG	41	-12.086	14.005	3.035	1.00	0.00
ATOM	630	HH12 ARG	41	-12.678	13.220	4.486	1.00	0.00
ATOM	631	NH2 ARG	41	-12.383	10.914	3.671	1.00	0.00
ATOM	632	HH21 ARG	41	-12.191	10.009	3.267	1.00	0.00
ATOM	633	HH22 ARG	41	-12.735	10.989	4.614	1.00	0.00
ATOM	634	C ARG	41	-10.475	16.208	-0.470	1.00	0.00
ATOM	635	O ARG	41	-11.488	15.553	-0.462	1.00	0.00
ATOM	636	N MET	42	-10.227	17.140	-1.377	1.00	0.00
ATOM	637	H MET	42	-9.372	17.675	-1.311	1.00	0.00
ATOM	638	CA MET	42	-11.139	17.431	-2.471	1.00	0.00
ATOM	639	HA MET	42	-12.014	17.971	-2.109	1.00	0.00



ATOM	640	CB	MET	42	-10.415	18.305	-3.496	1.00	0.00
ATOM	641	HB2	MET	42	-11.035	18.378	-4.390	1.00	0.00
ATOM	642	HB3	MET	42	-10.276	19.298	-3.069	1.00	0.00
ATOM	643	CG	MET	42	-9.047	17.713	-3.870	1.00	0.00
ATOM	644	HG2	MET	42	-8.305	18.118	-3.181	1.00	0.00
ATOM	645	HG3	MET	42	-9.104	16.632	-3.748	1.00	0.00
ATOM	646	SD	MET	42	-8.554	18.093	-5.560	1.00	0.00
ATOM	647	CE	MET	42	-8.081	19.825	-5.308	1.00	0.00
ATOM	648	HE1	MET	42	-7.276	19.880	-4.575	1.00	0.00
ATOM	649	HE2	MET	42	-7.740	20.251	-6.253	1.00	0.00
ATOM	650	HE3	MET	42	-8.941	20.388	-4.946	1.00	0.00
ATOM	651	C	MET	42	-11.627	16.158	-3.174	1.00	0.00
ATOM	652	O	MET	42	-12.723	16.153	-3.707	1.00	0.00
ATOM	653	N	ARG	43	-10.797	15.097	-3.156	1.00	0.00
ATOM	654	H	ARG	43	-9.857	15.228	-2.811	1.00	0.00
ATOM	655	CA	ARG	43	-11.157	13.807	-3.681	1.00	0.00
ATOM	656	HA	ARG	43	-11.295	13.874	-4.761	1.00	0.00
ATOM	657	CB	ARG	43	-10.055	12.781	-3.391	1.00	0.00
ATOM	658	HB2	ARG	43	-9.134	13.299	-3.120	1.00	0.00
ATOM	659	HB3	ARG	43	-10.363	12.135	-2.570	1.00	0.00
ATOM	660	CG	ARG	43	-9.814	11.934	-4.645	1.00	0.00
ATOM	661	HG2	ARG	43	-9.519	10.929	-4.344	1.00	0.00

ATOM	662	HG3	ARG	43	-10.737	11.884	-5.223	1.00	0.00
ATOM	663	CD	ARG	43	-8.705	12.556	-5.506	1.00	0.00
ATOM	664	HD2	ARG	43	-8.741	12.129	-6.509	1.00	0.00
ATOM	665	HD3	ARG	43	-8.854	13.635	-5.566	1.00	0.00
ATOM	666	NE	ARG	43	-7.369	12.293	-4.926	1.00	0.00
ATOM	667	HE	ARG	43	-7.309	11.513	-4.289	1.00	0.00
ATOM	668	CZ	ARG	43	-6.261	12.943	-5.232	1.00	0.00
ATOM	669	NH1	ARG	43	-6.278	13.935	-6.081	1.00	0.00
ATOM	670	HH11	ARG	43	-7.148	14.213	-6.512	1.00	0.00
ATOM	671	HH12	ARG	43	-5.420	14.421	-6.303	1.00	0.00
ATOM	672	NH2	ARG	43	-5.136	12.649	-4.624	1.00	0.00
ATOM	673	HH21	ARG	43	-5.120	11.924	-3.922	1.00	0.00
ATOM	674	HH22	ARG	43	-4.291	13.150	-4.862	1.00	0.00
ATOM	675	C	ARG	43	-12.498	13.362	-3.118	1.00	0.00
ATOM	676	O	ARG	43	-12.741	13.472	-1.924	1.00	0.00
ATOM	677	N	GLU	44	-13.289	12.738	-3.953	1.00	0.00
ATOM	678	H	GLU	44	-13.026	12.657	-4.925	1.00	0.00
ATOM	679	CA	GLU	44	-14.576	12.192	-3.537	1.00	0.00
ATOM	680	HA	GLU	44	-14.793	12.488	-2.511	1.00	0.00
ATOM	681	CB	GLU	44	-15.686	12.724	-4.444	1.00	0.00
ATOM	682	HB2	GLU	44	-16.630	12.282	-4.128	1.00	0.00
ATOM	683	HB3	GLU	44	-15.735	13.807	-4.329	1.00	0.00

ATOM	684	CG	GLU	44	-15.427	12.377	-5.924	1.00	0.00
ATOM	685	HG2	GLU	44	-15.260	13.275	-6.520	1.00	0.00
ATOM	686	HG3	GLU	44	-14.524	11.767	-5.927	1.00	0.00
ATOM	687	CD	GLU	44	-16.586	11.576	-6.522	1.00	0.00
ATOM	688	OE1	GLU	44	-16.596	10.346	-6.292	1.00	0.00
ATOM	689	OE2	GLU	44	-17.465	12.229	-7.131	1.00	0.00
ATOM	690	C	GLU	44	-14.553	10.662	-3.564	1.00	0.00
ATOM	691	O	GLU	44	-15.284	10.020	-2.819	1.00	0.00
ATOM	692	N	GLU	45	-13.601	10.089	-4.309	1.00	0.00
ATOM	693	H	GLU	45	-12.953	10.672	-4.820	1.00	0.00
ATOM	694	CA	GLU	45	-13.494	8.656	-4.455	1.00	0.00
ATOM	695	HA	GLU	45	-14.490	8.217	-4.504	1.00	0.00
ATOM	696	CB	GLU	45	-12.735	8.295	-5.741	1.00	0.00
ATOM	697	HB2	GLU	45	-12.208	9.178	-6.103	1.00	0.00
ATOM	698	HB3	GLU	45	-12.015	7.508	-5.521	1.00	0.00
ATOM	699	CG	GLU	45	-13.716	7.805	-6.821	1.00	0.00
ATOM	700	HG2	GLU	45	-13.961	6.744	-6.842	1.00	0.00
ATOM	701	HG3	GLU	45	-14.591	8.374	-6.507	1.00	0.00
ATOM	702	CD	GLU	45	-13.290	8.257	-8.219	1.00	0.00
ATOM	703	OE1	GLU	45	-13.377	9.474	-8.491	1.00	0.00
ATOM	704	OE2	GLU	45	-12.663	7.422	-8.914	1.00	0.00
ATOM	705	C	GLU	45	-12.795	8.114	-3.219	1.00	0.00

ATOM	706	O	GLU	45	-11.617	8.418	-2.958	1.00	0.00
ATOM	707	N	ASP	46	-13.512	7.281	-2.473	1.00	0.00
ATOM	708	H	ASP	46	-14.457	7.058	-2.750	1.00	0.00
ATOM	709	CA	ASP	46	-12.989	6.678	-1.266	1.00	0.00
ATOM	710	HA	ASP	46	-12.588	7.454	-0.614	1.00	0.00
ATOM	711	CB	ASP	46	-14.090	5.925	-0.513	1.00	0.00
ATOM	712	HB2	ASP	46	-14.965	6.558	-0.660	1.00	0.00
ATOM	713	HB3	ASP	46	-14.278	4.941	-0.942	1.00	0.00
ATOM	714	CG	ASP	46	-13.808	5.784	0.986	1.00	0.00
ATOM	715	OD1	ASP	46	-12.781	6.339	1.455	1.00	0.00
ATOM	716	OD2	ASP	46	-14.554	5.034	1.646	1.00	0.00
ATOM	717	C	ASP	46	-11.879	5.701	-1.639	1.00	0.00
ATOM	718	O	ASP	46	-11.944	4.960	-2.632	1.00	0.00
ATOM	719	N	HID	47	-10.801	5.682	-0.867	1.00	0.00
ATOM	720	H	HID	47	-10.719	6.342	-0.107	1.00	0.00
ATOM	721	CA	HID	47	-9.690	4.778	-1.117	1.00	0.00
ATOM	722	HA	HID	47	-9.929	4.107	-1.942	1.00	0.00
ATOM	723	CB	HID	47	-8.448	5.580	-1.487	1.00	0.00
ATOM	724	HB2	HID	47	-8.270	6.382	-0.770	1.00	0.00
ATOM	725	HB3	HID	47	-7.571	4.935	-1.536	1.00	0.00
ATOM	726	CG	HID	47	-8.578	6.235	-2.844	1.00	0.00
ATOM	727	ND1	HID	47	-9.557	5.935	-3.783	1.00	0.00

ATOM	728	HD1	HID	47	-10.280	5.237	-3.686	1.00	0.00
ATOM	729	CE1	HID	47	-9.372	6.739	-4.847	1.00	0.00
ATOM	730	HE1	HID	47	-10.054	6.693	-5.697	1.00	0.00
ATOM	731	NE2	HID	47	-8.278	7.511	-4.625	1.00	0.00
ATOM	732	CD2	HID	47	-7.768	7.212	-3.370	1.00	0.00
ATOM	733	HD2	HID	47	-6.885	7.735	-3.002	1.00	0.00
ATOM	734	C	HID	47	-9.472	3.930	0.100	1.00	0.00
ATOM	735	O	HID	47	-9.249	4.485	1.166	1.00	0.00
ATOM	736	N	LYS	48	-9.456	2.609	-0.100	1.00	0.00
ATOM	737	H	LYS	48	-9.637	2.273	-1.035	1.00	0.00
ATOM	738	CA	LYS	48	-9.249	1.630	0.959	1.00	0.00
ATOM	739	HA	LYS	48	-8.216	1.669	1.306	1.00	0.00
ATOM	740	CB	LYS	48	-10.174	1.931	2.141	1.00	0.00
ATOM	741	HB2	LYS	48	-10.750	2.830	1.919	1.00	0.00
ATOM	742	HB3	LYS	48	-10.853	1.090	2.281	1.00	0.00
ATOM	743	CG	LYS	48	-9.359	2.150	3.422	1.00	0.00
ATOM	744	HG2	LYS	48	-8.708	1.289	3.572	1.00	0.00
ATOM	745	HG3	LYS	48	-8.751	3.047	3.298	1.00	0.00
ATOM	746	CD	LYS	48	-10.275	2.317	4.641	1.00	0.00
ATOM	747	HD2	LYS	48	-9.687	2.707	5.472	1.00	0.00
ATOM	748	HD3	LYS	48	-11.066	3.025	4.392	1.00	0.00
ATOM	749	CE	LYS	48	-10.899	0.971	5.042	1.00	0.00

ATOM	750	HE2	LYS	48	-10.161	0.183	4.890	1.00	0.00
ATOM	751	HE3	LYS	48	-11.175	1.012	6.095	1.00	0.00
ATOM	752	NZ	LYS	48	-12.106	0.683	4.225	1.00	0.00
ATOM	753	HZ1	LYS	48	-11.850	0.645	3.248	1.00	0.00
ATOM	754	HZ2	LYS	48	-12.498	-0.204	4.505	1.00	0.00
ATOM	755	HZ3	LYS	48	-12.790	1.413	4.365	1.00	0.00
ATOM	756	C	LYS	48	-9.481	0.220	0.444	1.00	0.00
ATOM	757	O	LYS	48	-8.772	-0.703	0.805	1.00	0.00
ATOM	758	N	GLN	49	-10.401	0.084	-0.506	1.00	0.00
ATOM	759	H	GLN	49	-10.917	0.893	-0.825	1.00	0.00
ATOM	760	CA	GLN	49	-10.681	-1.186	-1.116	1.00	0.00
ATOM	761	HA	GLN	49	-10.477	-1.982	-0.401	1.00	0.00
ATOM	762	CB	GLN	49	-12.135	-1.285	-1.553	1.00	0.00
ATOM	763	HB2	GLN	49	-12.590	-0.294	-1.528	1.00	0.00
ATOM	764	HB3	GLN	49	-12.183	-1.680	-2.568	1.00	0.00
ATOM	765	CG	GLN	49	-12.891	-2.216	-0.608	1.00	0.00
ATOM	766	HG2	GLN	49	-12.408	-3.192	-0.638	1.00	0.00
ATOM	767	HG3	GLN	49	-12.854	-1.823	0.408	1.00	0.00
ATOM	768	CD	GLN	49	-14.347	-2.381	-1.012	1.00	0.00
ATOM	769	OE1	GLN	49	-14.787	-1.970	-2.066	1.00	0.00
ATOM	770	NE2	GLN	49	-15.129	-2.979	-0.144	1.00	0.00
ATOM	771	HE21	GLN	49	-16.106	-3.115	-0.360	1.00	0.00

ATOM	772	HE22	GLN	49	-14.750	-3.299	0.735	1.00	0.00
ATOM	773	C	GLN	49	-9.818	-1.344	-2.329	1.00	0.00
ATOM	774	O	GLN	49	-9.468	-2.456	-2.583	1.00	0.00
ATOM	775	N	LEU	50	-9.350	-0.294	-2.997	1.00	0.00
ATOM	776	H	LEU	50	-9.668	0.622	-2.714	1.00	0.00
ATOM	777	CA	LEU	50	-8.455	-0.389	-4.138	1.00	0.00
ATOM	778	HA	LEU	50	-8.869	-1.047	-4.902	1.00	0.00
ATOM	779	CB	LEU	50	-8.284	1.016	-4.740	1.00	0.00
ATOM	780	HB2	LEU	50	-8.397	1.709	-3.906	1.00	0.00
ATOM	781	HB3	LEU	50	-7.282	1.114	-5.160	1.00	0.00
ATOM	782	CG	LEU	50	-9.327	1.343	-5.823	1.00	0.00
ATOM	783	HG	LEU	50	-10.266	0.843	-5.586	1.00	0.00
ATOM	784	CD1	LEU	50	-9.555	2.858	-5.876	1.00	0.00
ATOM	785	HD11	LEU	50	-8.617	3.359	-6.114	1.00	0.00
ATOM	786	HD12	LEU	50	-10.294	3.089	-6.644	1.00	0.00
ATOM	787	HD13	LEU	50	-9.917	3.206	-4.909	1.00	0.00
ATOM	788	CD2	LEU	50	-8.877	0.814	-7.187	1.00	0.00
ATOM	789	HD21	LEU	50	-8.752	-0.267	-7.135	1.00	0.00
ATOM	790	HD22	LEU	50	-9.629	1.057	-7.938	1.00	0.00
ATOM	791	HD23	LEU	50	-7.929	1.276	-7.462	1.00	0.00
ATOM	792	C	LEU	50	-7.116	-0.989	-3.706	1.00	0.00
ATOM	793	O	LEU	50	-6.432	-1.583	-4.518	1.00	0.00

ATOM	794	N	CYX	51	-6.777	-0.886	-2.418	1.00	0.00
ATOM	795	H	CYX	51	-7.352	-0.325	-1.806	1.00	0.00
ATOM	796	CA	CYX	51	-5.590	-1.496	-1.873	1.00	0.00
ATOM	797	HA	CYX	51	-4.817	-1.557	-2.639	1.00	0.00
ATOM	798	CB	CYX	51	-5.064	-0.669	-0.720	1.00	0.00
ATOM	799	HB2	CYX	51	-3.978	-0.750	-0.680	1.00	0.00
ATOM	800	HB3	CYX	51	-5.344	0.375	-0.864	1.00	0.00
ATOM	801	SG	CYX	51	-5.620	-1.052	0.972	1.00	0.00
ATOM	802	C	CYX	51	-5.883	-2.904	-1.435	1.00	0.00
ATOM	803	O	CYX	51	-5.175	-3.783	-1.882	1.00	0.00
ATOM	804	N	CYX	52	-6.989	-3.127	-0.713	1.00	0.00
ATOM	805	H	CYX	52	-7.525	-2.334	-0.390	1.00	0.00
ATOM	806	CA	CYX	52	-7.398	-4.456	-0.289	1.00	0.00
ATOM	807	HA	CYX	52	-6.537	-5.006	0.091	1.00	0.00
ATOM	808	CB	CYX	52	-8.449	-4.357	0.825	1.00	0.00
ATOM	809	HB2	CYX	52	-9.039	-3.450	0.689	1.00	0.00
ATOM	810	HB3	CYX	52	-9.105	-5.226	0.784	1.00	0.00
ATOM	811	SG	CYX	52	-7.701	-4.340	2.486	1.00	0.00
ATOM	812	C	CYX	52	-7.894	-5.267	-1.491	1.00	0.00
ATOM	813	O	CYX	52	-8.228	-6.434	-1.349	1.00	0.00
ATOM	814	N	MET	53	-7.953	-4.654	-2.672	1.00	0.00
ATOM	815	H	MET	53	-7.630	-3.697	-2.708	1.00	0.00



ATOM	816	CA	MET	53	-8.454	-5.250	-3.881	1.00	0.00
ATOM	817	HA	MET	53	-9.112	-6.081	-3.631	1.00	0.00
ATOM	818	CB	MET	53	-9.244	-4.234	-4.713	1.00	0.00
ATOM	819	HB2	MET	53	-10.205	-4.061	-4.229	1.00	0.00
ATOM	820	HB3	MET	53	-8.681	-3.300	-4.746	1.00	0.00
ATOM	821	CG	MET	53	-9.474	-4.735	-6.128	1.00	0.00
ATOM	822	HG2	MET	53	-9.235	-5.797	-6.176	1.00	0.00
ATOM	823	HG3	MET	53	-10.520	-4.585	-6.396	1.00	0.00
ATOM	824	SD	MET	53	-8.428	-3.839	-7.298	1.00	0.00
ATOM	825	CE	MET	53	-8.104	-5.179	-8.463	1.00	0.00
ATOM	826	HE1	MET	53	-9.046	-5.534	-8.880	1.00	0.00
ATOM	827	HE2	MET	53	-7.465	-4.814	-9.268	1.00	0.00
ATOM	828	HE3	MET	53	-7.604	-5.998	-7.946	1.00	0.00
ATOM	829	C	MET	53	-7.264	-5.755	-4.660	1.00	0.00
ATOM	830	O	MET	53	-7.252	-6.909	-5.054	1.00	0.00
ATOM	831	N	GLN	54	-6.301	-4.879	-4.938	1.00	0.00
ATOM	832	H	GLN	54	-6.357	-3.925	-4.610	1.00	0.00
ATOM	833	CA	GLN	54	-5.142	-5.271	-5.710	1.00	0.00
ATOM	834	HA	GLN	54	-5.458	-5.809	-6.604	1.00	0.00
ATOM	835	CB	GLN	54	-4.352	-4.054	-6.134	1.00	0.00
ATOM	836	HB2	GLN	54	-4.439	-3.303	-5.349	1.00	0.00
ATOM	837	HB3	GLN	54	-3.308	-4.348	-6.240	1.00	0.00

ATOM	838	CG	GLN	54	-4.848	-3.474	-7.444	1.00	0.00
ATOM	839	HG2	GLN	54	-4.100	-3.661	-8.215	1.00	0.00
ATOM	840	HG3	GLN	54	-5.773	-3.989	-7.703	1.00	0.00
ATOM	841	CD	GLN	54	-5.124	-1.979	-7.388	1.00	0.00
ATOM	842	OE1	GLN	54	-4.432	-1.168	-6.813	1.00	0.00
ATOM	843	NE2	GLN	54	-6.176	-1.535	-8.017	1.00	0.00
ATOM	844	HE21	GLN	54	-6.391	-0.548	-8.002	1.00	0.00
ATOM	845	HE22	GLN	54	-6.771	-2.179	-8.517	1.00	0.00
ATOM	846	C	GLN	54	-4.241	-6.153	-4.885	1.00	0.00
ATOM	847	O	GLN	54	-3.627	-7.035	-5.454	1.00	0.00
ATOM	848	N	LEU	55	-4.197	-5.979	-3.562	1.00	0.00
ATOM	849	H	LEU	55	-4.751	-5.249	-3.137	1.00	0.00
ATOM	850	CA	LEU	55	-3.363	-6.802	-2.702	1.00	0.00
ATOM	851	HA	LEU	55	-2.309	-6.669	-2.949	1.00	0.00
ATOM	852	CB	LEU	55	-3.580	-6.382	-1.258	1.00	0.00
ATOM	853	HB2	LEU	55	-4.553	-5.893	-1.297	1.00	0.00
ATOM	854	HB3	LEU	55	-3.641	-7.262	-0.618	1.00	0.00
ATOM	855	CG	LEU	55	-2.534	-5.401	-0.685	1.00	0.00
ATOM	856	HG	LEU	55	-1.984	-4.976	-1.526	1.00	0.00
ATOM	857	CD1	LEU	55	-3.159	-4.266	0.144	1.00	0.00
ATOM	858	HD11	LEU	55	-3.708	-4.689	0.984	1.00	0.00
ATOM	859	HD12	LEU	55	-2.371	-3.612	0.517	1.00	0.00

ATOM	860	HD13	LEU	55	-3.841	-3.691	-0.483	1.00	0.00
ATOM	861	CD2	LEU	55	-1.476	-6.144	0.136	1.00	0.00
ATOM	862	HD21	LEU	55	-0.965	-6.867	-0.499	1.00	0.00
ATOM	863	HD22	LEU	55	-0.752	-5.429	0.527	1.00	0.00
ATOM	864	HD23	LEU	55	-1.957	-6.664	0.964	1.00	0.00
ATOM	865	C	LEU	55	-3.738	-8.264	-2.888	1.00	0.00
ATOM	866	O	LEU	55	-2.889	-9.120	-2.742	1.00	0.00
ATOM	867	N	LYS	56	-4.987	-8.542	-3.263	1.00	0.00
ATOM	868	H	LYS	56	-5.693	-7.820	-3.224	1.00	0.00
ATOM	869	CA	LYS	56	-5.395	-9.880	-3.625	1.00	0.00
ATOM	870	HA	LYS	56	-5.077	-10.597	-2.869	1.00	0.00
ATOM	871	CB	LYS	56	-6.918	-9.917	-3.723	1.00	0.00
ATOM	872	HB2	LYS	56	-7.340	-9.669	-2.750	1.00	0.00
ATOM	873	HB3	LYS	56	-7.242	-9.179	-4.458	1.00	0.00
ATOM	874	CG	LYS	56	-7.400	-11.307	-4.149	1.00	0.00
ATOM	875	HG2	LYS	56	-7.703	-11.269	-5.196	1.00	0.00
ATOM	876	HG3	LYS	56	-6.579	-12.015	-4.034	1.00	0.00
ATOM	877	CD	LYS	56	-8.584	-11.756	-3.292	1.00	0.00
ATOM	878	HD2	LYS	56	-8.208	-12.221	-2.382	1.00	0.00
ATOM	879	HD3	LYS	56	-9.186	-10.885	-3.033	1.00	0.00
ATOM	880	CE	LYS	56	-9.447	-12.762	-4.061	1.00	0.00
ATOM	881	HE2	LYS	56	-9.400	-12.534	-5.126	1.00	0.00

ATOM	882	HE3 LYS	56	-9.065	-13.768	-3.888	1.00	0.00
ATOM	883	NZ LYS	56	-10.854	-12.682	-3.601	1.00	0.00
ATOM	884	HZ1 LYS	56	-11.208	-11.750	-3.762	1.00	0.00
ATOM	885	HZ2 LYS	56	-11.414	-13.348	-4.114	1.00	0.00
ATOM	886	HZ3 LYS	56	-10.898	-12.893	-2.615	1.00	0.00
ATOM	887	C LYS	56	-4.717	-10.369	-4.902	1.00	0.00
ATOM	888	O LYS	56	-4.331	-11.524	-4.954	1.00	0.00
ATOM	889	N ASN	57	-4.681	-9.532	-5.939	1.00	0.00
ATOM	890	H ASN	57	-5.205	-8.669	-5.908	1.00	0.00
ATOM	891	CA ASN	57	-3.937	-9.840	-7.143	1.00	0.00
ATOM	892	HA ASN	57	-4.370	-10.712	-7.632	1.00	0.00
ATOM	893	CB ASN	57	-3.983	-8.652	-8.125	1.00	0.00
ATOM	894	HB2 ASN	57	-4.287	-7.732	-7.626	1.00	0.00
ATOM	895	HB3 ASN	57	-2.966	-8.541	-8.501	1.00	0.00
ATOM	896	CG ASN	57	-4.906	-8.893	-9.295	1.00	0.00
ATOM	897	OD1 ASN	57	-5.319	-9.990	-9.621	1.00	0.00
ATOM	898	ND2 ASN	57	-5.322	-7.822	-9.931	1.00	0.00
ATOM	899	HD21 ASN	57	-5.942	-7.917	-10.723	1.00	0.00
ATOM	900	HD22 ASN	57	-5.020	-6.907	-9.626	1.00	0.00
ATOM	901	C ASN	57	-2.474	-10.189	-6.868	1.00	0.00
ATOM	902	O ASN	57	-1.873	-10.883	-7.680	1.00	0.00
ATOM	903	N LEU	58	-1.897	-9.576	-5.828	1.00	0.00

ATOM	904	H	LEU	58	-2.378	-8.817	-5.366	1.00	0.00
ATOM	905	CA	LEU	58	-0.547	-9.879	-5.419	1.00	0.00
ATOM	906	HA	LEU	58	0.130	-9.822	-6.272	1.00	0.00
ATOM	907	CB	LEU	58	-0.093	-8.857	-4.363	1.00	0.00
ATOM	908	HB2	LEU	58	-0.984	-8.596	-3.792	1.00	0.00
ATOM	909	HB3	LEU	58	0.625	-9.353	-3.710	1.00	0.00
ATOM	910	CG	LEU	58	0.530	-7.595	-4.932	1.00	0.00
ATOM	911	HG	LEU	58	-0.224	-7.046	-5.497	1.00	0.00
ATOM	912	CD1	LEU	58	1.061	-6.711	-3.797	1.00	0.00
ATOM	913	HD11	LEU	58	1.816	-7.258	-3.232	1.00	0.00
ATOM	914	HD12	LEU	58	1.506	-5.808	-4.217	1.00	0.00
ATOM	915	HD13	LEU	58	0.240	-6.436	-3.135	1.00	0.00
ATOM	916	CD2	LEU	58	1.654	-7.940	-5.864	1.00	0.00
ATOM	917	HD21	LEU	58	1.273	-8.548	-6.685	1.00	0.00
ATOM	918	HD22	LEU	58	2.090	-7.024	-6.264	1.00	0.00
ATOM	919	HD23	LEU	58	2.417	-8.498	-5.323	1.00	0.00
ATOM	920	C	LEU	58	-0.413	-11.333	-4.947	1.00	0.00
ATOM	921	O	LEU	58	-1.323	-12.152	-5.043	1.00	0.00
ATOM	922	N	ASP	59	0.762	-11.663	-4.434	1.00	0.00
ATOM	923	H	ASP	59	1.508	-10.983	-4.383	1.00	0.00
ATOM	924	CA	ASP	59	1.014	-12.994	-3.938	1.00	0.00
ATOM	925	HA	ASP	59	0.337	-13.702	-4.414	1.00	0.00

ATOM	926	CB	ASP	59	2.449	-13.408	-4.248	1.00	0.00
ATOM	927	HB2	ASP	59	2.990	-12.647	-3.686	1.00	0.00
ATOM	928	HB3	ASP	59	2.730	-14.396	-3.885	1.00	0.00
ATOM	929	CG	ASP	59	2.800	-13.292	-5.728	1.00	0.00
ATOM	930	OD1	ASP	59	2.039	-13.840	-6.544	1.00	0.00
ATOM	931	OD2	ASP	59	3.923	-12.812	-5.987	1.00	0.00
ATOM	932	C	ASP	59	0.800	-13.021	-2.438	1.00	0.00
ATOM	933	O	ASP	59	1.130	-12.057	-1.744	1.00	0.00
ATOM	934	N	GLU	60	0.558	-14.212	-1.895	1.00	0.00
ATOM	935	H	GLU	60	0.489	-15.028	-2.486	1.00	0.00
ATOM	936	CA	GLU	60	0.360	-14.379	-0.455	1.00	0.00
ATOM	937	HA	GLU	60	-0.303	-13.599	-0.081	1.00	0.00
ATOM	938	CB	GLU	60	-0.270	-15.745	-0.154	1.00	0.00
ATOM	939	HB2	GLU	60	-0.623	-16.188	-1.085	1.00	0.00
ATOM	940	HB3	GLU	60	0.482	-16.394	0.295	1.00	0.00
ATOM	941	CG	GLU	60	-1.449	-15.582	0.814	1.00	0.00
ATOM	942	HG2	GLU	60	-1.167	-14.811	1.532	1.00	0.00
ATOM	943	HG3	GLU	60	-2.344	-15.267	0.277	1.00	0.00
ATOM	944	CD	GLU	60	-1.732	-16.893	1.556	1.00	0.00
ATOM	945	OE1	GLU	60	-1.119	-17.085	2.631	1.00	0.00
ATOM	946	OE2	GLU	60	-2.521	-17.698	1.017	1.00	0.00
ATOM	947	C	GLU	60	1.694	-14.260	0.282	1.00	0.00

ATOM	948	O	GLU	60	1.757	-13.915	1.457	1.00	0.00
ATOM	949	N	LYS	61	2.794	-14.505	-0.438	1.00	0.00
ATOM	950	H	LYS	61	2.700	-14.882	-1.370	1.00	0.00
ATOM	951	CA	LYS	61	4.119	-14.336	0.100	1.00	0.00
ATOM	952	HA	LYS	61	4.108	-14.454	1.183	1.00	0.00
ATOM	953	CB	LYS	61	5.045	-15.396	-0.498	1.00	0.00
ATOM	954	HB2	LYS	61	5.951	-15.437	0.107	1.00	0.00
ATOM	955	HB3	LYS	61	4.535	-16.358	-0.454	1.00	0.00
ATOM	956	CG	LYS	61	5.417	-15.081	-1.953	1.00	0.00
ATOM	957	HG2	LYS	61	4.505	-14.872	-2.513	1.00	0.00
ATOM	958	HG3	LYS	61	6.062	-14.202	-1.970	1.00	0.00
ATOM	959	CD	LYS	61	6.150	-16.263	-2.595	1.00	0.00
ATOM	960	HD2	LYS	61	7.078	-15.904	-3.041	1.00	0.00
ATOM	961	HD3	LYS	61	6.378	-16.999	-1.825	1.00	0.00
ATOM	962	CE	LYS	61	5.279	-16.911	-3.679	1.00	0.00
ATOM	963	HE2	LYS	61	4.622	-16.152	-4.105	1.00	0.00
ATOM	964	HE3	LYS	61	5.926	-17.310	-4.461	1.00	0.00
ATOM	965	NZ	LYS	61	4.461	-18.008	-3.105	1.00	0.00
ATOM	966	HZ1	LYS	61	3.862	-17.637	-2.382	1.00	0.00
ATOM	967	HZ2	LYS	61	3.895	-18.421	-3.833	1.00	0.00
ATOM	968	HZ3	LYS	61	5.070	-18.711	-2.711	1.00	0.00
ATOM	969	C	LYS	61	4.606	-12.932	-0.148	1.00	0.00

ATOM	970	O	LYS	61	5.672	-12.639	0.338	1.00	0.00
ATOM	971	N	CYX	62	3.924	-12.118	-0.947	1.00	0.00
ATOM	972	H	CYX	62	3.140	-12.512	-1.447	1.00	0.00
ATOM	973	CA	CYX	62	4.256	-10.731	-1.179	1.00	0.00
ATOM	974	HA	CYX	62	5.285	-10.529	-0.883	1.00	0.00
ATOM	975	CB	CYX	62	4.110	-10.429	-2.656	1.00	0.00
ATOM	976	HB2	CYX	62	3.159	-10.822	-3.016	1.00	0.00
ATOM	977	HB3	CYX	62	4.139	-9.350	-2.812	1.00	0.00
ATOM	978	SG	CYX	62	5.404	-11.177	-3.683	1.00	0.00
ATOM	979	C	CYX	62	3.347	-9.837	-0.333	1.00	0.00
ATOM	980	O	CYX	62	3.659	-8.685	-0.060	1.00	0.00
ATOM	981	N	MET	63	2.293	-10.375	0.246	1.00	0.00
ATOM	982	H	MET	63	2.098	-11.354	0.093	1.00	0.00
ATOM	983	CA	MET	63	1.382	-9.617	1.059	1.00	0.00
ATOM	984	HA	MET	63	1.291	-8.596	0.688	1.00	0.00
ATOM	985	CB	MET	63	0.024	-10.276	0.999	1.00	0.00
ATOM	986	HB2	MET	63	0.166	-11.348	1.135	1.00	0.00
ATOM	987	HB3	MET	63	-0.575	-9.882	1.819	1.00	0.00
ATOM	988	CG	MET	63	-0.692	-10.024	-0.316	1.00	0.00
ATOM	989	HG2	MET	63	-1.335	-9.153	-0.190	1.00	0.00
ATOM	990	HG3	MET	63	0.060	-9.812	-1.077	1.00	0.00
ATOM	991	SD	MET	63	-1.692	-11.429	-0.846	1.00	0.00



ATOM	992	CE	MET	63	-2.550	-11.807	0.685	1.00	0.00
ATOM	993	HE1	MET	63	-3.135	-10.942	0.997	1.00	0.00
ATOM	994	HE2	MET	63	-3.214	-12.657	0.529	1.00	0.00
ATOM	995	HE3	MET	63	-1.822	-12.051	1.459	1.00	0.00
ATOM	996	C	MET	63	1.918	-9.565	2.465	1.00	0.00
ATOM	997	O	MET	63	1.340	-10.075	3.382	1.00	0.00
ATOM	998	N	CYX	64	3.062	-8.978	2.708	1.00	0.00
ATOM	999	H	CYX	64	3.559	-8.595	1.915	1.00	0.00
ATOM	1000	CA	CYX	64	3.692	-8.905	4.018	1.00	0.00
ATOM	1001	HA	CYX	64	3.118	-8.213	4.634	1.00	0.00
ATOM	1002	CB	CYX	64	3.768	-10.264	4.742	1.00	0.00
ATOM	1003	HB2	CYX	64	2.951	-10.340	5.459	1.00	0.00
ATOM	1004	HB3	CYX	64	3.686	-11.069	4.012	1.00	0.00
ATOM	1005	SG	CYX	64	5.310	-10.578	5.694	1.00	0.00
ATOM	1006	C	CYX	64	5.066	-8.310	3.835	1.00	0.00
ATOM	1007	O	CYX	64	5.328	-7.234	4.374	1.00	0.00
ATOM	1008	N	PRO	65	5.917	-8.976	3.033	1.00	0.00
ATOM	1009	CD	PRO	65	5.658	-10.225	2.329	1.00	0.00
ATOM	1010	HD2	PRO	65	4.919	-10.018	1.555	1.00	0.00
ATOM	1011	HD3	PRO	65	5.242	-10.928	3.050	1.00	0.00
ATOM	1012	CG	PRO	65	6.979	-10.695	1.760	1.00	0.00
ATOM	1013	HG2	PRO	65	6.911	-10.706	0.672	1.00	0.00

ATOM	1014	HG3 PRO	65	7.180	-11.703	2.121	1.00	0.00
ATOM	1015	CB PRO	65	8.041	-9.729	2.237	1.00	0.00
ATOM	1016	HB2 PRO	65	8.642	-9.423	1.380	1.00	0.00
ATOM	1017	HB3 PRO	65	8.691	-10.146	3.006	1.00	0.00
ATOM	1018	CA PRO	65	7.277	-8.520	2.796	1.00	0.00
ATOM	1019	HA PRO	65	7.713	-8.200	3.742	1.00	0.00
ATOM	1020	C PRO	65	7.288	-7.355	1.813	1.00	0.00
ATOM	1021	O PRO	65	8.093	-6.445	1.953	1.00	0.00
ATOM	1022	N ALA	66	6.376	-7.373	0.841	1.00	0.00
ATOM	1023	H ALA	66	5.751	-8.162	0.760	1.00	0.00
ATOM	1024	CA ALA	66	6.262	-6.318	-0.116	1.00	0.00
ATOM	1025	HA ALA	66	7.232	-6.044	-0.533	1.00	0.00
ATOM	1026	CB ALA	66	5.351	-6.741	-1.248	1.00	0.00
ATOM	1027	HB1 ALA	66	4.374	-7.009	-0.848	1.00	0.00
ATOM	1028	HB2 ALA	66	5.241	-5.917	-1.954	1.00	0.00
ATOM	1029	HB3 ALA	66	5.782	-7.601	-1.760	1.00	0.00
ATOM	1030	C ALA	66	5.715	-5.105	0.576	1.00	0.00
ATOM	1031	O ALA	66	6.320	-4.074	0.429	1.00	0.00
ATOM	1032	N ILE	67	4.633	-5.207	1.343	1.00	0.00
ATOM	1033	H ILE	67	4.201	-6.115	1.432	1.00	0.00
ATOM	1034	CA ILE	67	4.034	-4.088	2.049	1.00	0.00
ATOM	1035	HA ILE	67	3.454	-3.423	1.408	1.00	0.00

ATOM	1036	CB	ILE	67	3.156	-4.591	3.186	1.00	0.00
ATOM	1037	HB	ILE	67	3.695	-5.360	3.737	1.00	0.00
ATOM	1038	CG2	ILE	67	2.796	-3.434	4.138	1.00	0.00
ATOM	1039	HG21	ILE	67	2.257	-2.663	3.586	1.00	0.00
ATOM	1040	HG22	ILE	67	2.168	-3.809	4.945	1.00	0.00
ATOM	1041	HG23	ILE	67	3.709	-3.009	4.555	1.00	0.00
ATOM	1042	CG1	ILE	67	1.926	-5.321	2.613	1.00	0.00
ATOM	1043	HG12	ILE	67	1.856	-5.084	1.551	1.00	0.00
ATOM	1044	HG13	ILE	67	2.080	-6.393	2.736	1.00	0.00
ATOM	1045	CD1	ILE	67	0.634	-4.910	3.312	1.00	0.00
ATOM	1046	HD11	ILE	67	0.479	-3.838	3.188	1.00	0.00
ATOM	1047	HD12	ILE	67	-0.205	-5.450	2.873	1.00	0.00
ATOM	1048	HD13	ILE	67	0.704	-5.146	4.373	1.00	0.00
ATOM	1049	C	ILE	67	5.121	-3.190	2.617	1.00	0.00
ATOM	1050	O	ILE	67	5.151	-2.022	2.347	1.00	0.00
ATOM	1051	N	MET	68	6.073	-3.693	3.370	1.00	0.00
ATOM	1052	H	MET	68	6.044	-4.673	3.612	1.00	0.00
ATOM	1053	CA	MET	68	7.172	-2.889	3.882	1.00	0.00
ATOM	1054	HA	MET	68	6.833	-2.239	4.689	1.00	0.00
ATOM	1055	CB	MET	68	8.234	-3.819	4.424	1.00	0.00
ATOM	1056	HB2	MET	68	8.558	-4.481	3.621	1.00	0.00
ATOM	1057	HB3	MET	68	9.079	-3.220	4.764	1.00	0.00

ATOM	1058	CG	MET	68	7.702	-4.651	5.584	1.00	0.00
ATOM	1059	HG2	MET	68	7.911	-4.134	6.520	1.00	0.00
ATOM	1060	HG3	MET	68	6.625	-4.776	5.470	1.00	0.00
ATOM	1061	SD	MET	68	8.490	-6.279	5.614	1.00	0.00
ATOM	1062	CE	MET	68	7.321	-7.142	6.682	1.00	0.00
ATOM	1063	HE1	MET	68	6.332	-7.129	6.223	1.00	0.00
ATOM	1064	HE2	MET	68	7.645	-8.173	6.817	1.00	0.00
ATOM	1065	HE3	MET	68	7.278	-6.645	7.651	1.00	0.00
ATOM	1066	C	MET	68	7.796	-2.004	2.819	1.00	0.00
ATOM	1067	O	MET	68	7.685	-0.786	2.965	1.00	0.00
ATOM	1068	N	MET	69	8.250	-2.625	1.717	1.00	0.00
ATOM	1069	H	MET	69	8.279	-3.634	1.710	1.00	0.00
ATOM	1070	CA	MET	69	8.752	-1.918	0.561	1.00	0.00
ATOM	1071	HA	MET	69	9.626	-1.325	0.830	1.00	0.00
ATOM	1072	CB	MET	69	9.155	-2.919	-0.510	1.00	0.00
ATOM	1073	HB2	MET	69	8.425	-3.728	-0.516	1.00	0.00
ATOM	1074	HB3	MET	69	9.143	-2.412	-1.476	1.00	0.00
ATOM	1075	CG	MET	69	10.535	-3.486	-0.255	1.00	0.00
ATOM	1076	HG2	MET	69	10.573	-3.904	0.750	1.00	0.00
ATOM	1077	HG3	MET	69	10.742	-4.271	-0.983	1.00	0.00
ATOM	1078	SD	MET	69	11.787	-2.189	-0.407	1.00	0.00
ATOM	1079	CE	MET	69	13.205	-3.076	0.242	1.00	0.00

ATOM	1080	HE1	MET	69	13.396	-3.956	-0.372	1.00	0.00
ATOM	1081	HE2	MET	69	14.080	-2.425	0.225	1.00	0.00
ATOM	1082	HE3	MET	69	13.003	-3.385	1.267	1.00	0.00
ATOM	1083	C	MET	69	7.772	-0.914	-0.040	1.00	0.00
ATOM	1084	O	MET	69	8.173	0.114	-0.577	1.00	0.00
ATOM	1085	N	MET	70	6.481	-1.185	0.052	1.00	0.00
ATOM	1086	H	MET	70	6.209	-2.088	0.411	1.00	0.00
ATOM	1087	CA	MET	70	5.450	-0.288	-0.383	1.00	0.00
ATOM	1088	HA	MET	70	5.496	-0.142	-1.463	1.00	0.00
ATOM	1089	CB	MET	70	4.101	-0.893	-0.031	1.00	0.00
ATOM	1090	HB2	MET	70	3.482	-0.816	-0.925	1.00	0.00
ATOM	1091	HB3	MET	70	4.280	-1.943	0.197	1.00	0.00
ATOM	1092	CG	MET	70	3.384	-0.234	1.141	1.00	0.00
ATOM	1093	HG2	MET	70	4.140	-0.054	1.905	1.00	0.00
ATOM	1094	HG3	MET	70	3.004	0.720	0.775	1.00	0.00
ATOM	1095	SD	MET	70	2.033	-1.173	1.856	1.00	0.00
ATOM	1096	CE	MET	70	1.127	0.139	2.642	1.00	0.00
ATOM	1097	HE1	MET	70	0.813	0.865	1.891	1.00	0.00
ATOM	1098	HE2	MET	70	0.248	-0.272	3.138	1.00	0.00
ATOM	1099	HE3	MET	70	1.763	0.631	3.378	1.00	0.00
ATOM	1100	C	MET	70	5.601	1.088	0.232	1.00	0.00
ATOM	1101	O	MET	70	5.265	2.075	-0.404	1.00	0.00

ATOM	1102	N	LEU	71	6.027	1.138	1.497	1.00	0.00
ATOM	1103	H	LEU	71	6.172	0.267	1.987	1.00	0.00
ATOM	1104	CA	LEU	71	6.179	2.372	2.233	1.00	0.00
ATOM	1105	HA	LEU	71	5.722	3.190	1.676	1.00	0.00
ATOM	1106	CB	LEU	71	5.504	2.275	3.601	1.00	0.00
ATOM	1107	HB2	LEU	71	5.977	1.403	4.052	1.00	0.00
ATOM	1108	HB3	LEU	71	5.736	3.161	4.192	1.00	0.00
ATOM	1109	CG	LEU	71	3.998	2.071	3.563	1.00	0.00
ATOM	1110	HG	LEU	71	3.781	1.031	3.320	1.00	0.00
ATOM	1111	CD1	LEU	71	3.405	2.407	4.904	1.00	0.00
ATOM	1112	HD11	LEU	71	3.622	3.448	5.147	1.00	0.00
ATOM	1113	HD12	LEU	71	2.326	2.260	4.871	1.00	0.00
ATOM	1114	HD13	LEU	71	3.838	1.759	5.665	1.00	0.00
ATOM	1115	CD2	LEU	71	3.300	2.858	2.460	1.00	0.00
ATOM	1116	HD21	LEU	71	3.693	2.553	1.490	1.00	0.00
ATOM	1117	HD22	LEU	71	2.228	2.662	2.495	1.00	0.00
ATOM	1118	HD23	LEU	71	3.479	3.924	2.604	1.00	0.00
ATOM	1119	C	LEU	71	7.655	2.698	2.294	1.00	0.00
ATOM	1120	O	LEU	71	8.135	3.242	3.280	1.00	0.00
ATOM	1121	N	ASN	72	8.402	2.297	1.278	1.00	0.00
ATOM	1122	H	ASN	72	7.963	1.734	0.563	1.00	0.00
ATOM	1123	CA	ASN	72	9.812	2.587	1.152	1.00	0.00

ATOM	1124	HA	ASN	72	10.132	3.265	1.943	1.00	0.00
ATOM	1125	CB	ASN	72	10.607	1.293	1.269	1.00	0.00
ATOM	1126	HB2	ASN	72	10.320	0.498	0.581	1.00	0.00
ATOM	1127	HB3	ASN	72	11.620	1.624	1.039	1.00	0.00
ATOM	1128	CG	ASN	72	10.586	0.746	2.674	1.00	0.00
ATOM	1129	OD1	ASN	72	10.420	-0.423	2.939	1.00	0.00
ATOM	1130	ND2	ASN	72	10.925	1.557	3.643	1.00	0.00
ATOM	1131	HD21	ASN	72	10.923	1.227	4.597	1.00	0.00
ATOM	1132	HD22	ASN	72	11.187	2.510	3.432	1.00	0.00
ATOM	1133	C	ASN	72	10.113	3.266	-0.170	1.00	0.00
ATOM	1134	O	ASN	72	11.277	3.507	-0.479	1.00	0.00
ATOM	1135	N	GLU	73	9.071	3.517	-0.958	1.00	0.00
ATOM	1136	H	GLU	73	8.152	3.198	-0.687	1.00	0.00
ATOM	1137	CA	GLU	73	9.221	4.149	-2.234	1.00	0.00
ATOM	1138	HA	GLU	73	9.991	3.644	-2.818	1.00	0.00
ATOM	1139	CB	GLU	73	7.892	4.076	-3.006	1.00	0.00
ATOM	1140	HB2	GLU	73	7.130	3.635	-2.364	1.00	0.00
ATOM	1141	HB3	GLU	73	7.589	5.084	-3.289	1.00	0.00
ATOM	1142	CG	GLU	73	8.056	3.214	-4.274	1.00	0.00
ATOM	1143	HG2	GLU	73	9.091	3.085	-4.590	1.00	0.00
ATOM	1144	HG3	GLU	73	7.652	2.254	-3.953	1.00	0.00
ATOM	1145	CD	GLU	73	7.228	3.749	-5.446	1.00	0.00

ATOM	1146	OE1	GLU	73	6.094	4.210	-5.180	1.00	0.00
ATOM	1147	OE2	GLU	73	7.795	3.819	-6.559	1.00	0.00
ATOM	1148	C	GLU	73	9.718	5.586	-2.078	1.00	0.00
ATOM	1149	O	GLU	73	9.843	6.114	-0.960	1.00	0.00
ATOM	1150	N	PRO	74	9.943	6.278	-3.205	1.00	0.00
ATOM	1151	CD	PRO	74	9.787	5.792	-4.568	1.00	0.00
ATOM	1152	HD2	PRO	74	8.723	5.607	-4.717	1.00	0.00
ATOM	1153	HD3	PRO	74	10.332	4.851	-4.631	1.00	0.00
ATOM	1154	CG	PRO	74	10.331	6.837	-5.515	1.00	0.00
ATOM	1155	HG2	PRO	74	9.526	7.219	-6.144	1.00	0.00
ATOM	1156	HG3	PRO	74	11.104	6.396	-6.145	1.00	0.00
ATOM	1157	CB	PRO	74	10.910	7.930	-4.630	1.00	0.00
ATOM	1158	HB2	PRO	74	10.594	8.914	-4.977	1.00	0.00
ATOM	1159	HB3	PRO	74	11.999	7.882	-4.621	1.00	0.00
ATOM	1160	CA	PRO	74	10.360	7.672	-3.216	1.00	0.00
ATOM	1161	HA	PRO	74	11.180	7.785	-2.508	1.00	0.00
ATOM	1162	C	PRO	74	9.221	8.624	-2.834	1.00	0.00
ATOM	1163	O	PRO	74	9.060	9.694	-3.421	1.00	0.00
ATOM	1164	N	MET	75	8.446	8.255	-1.822	1.00	0.00
ATOM	1165	H	MET	75	8.640	7.374	-1.369	1.00	0.00
ATOM	1166	CA	MET	75	7.338	9.036	-1.348	1.00	0.00
ATOM	1167	HA	MET	75	7.659	10.046	-1.092	1.00	0.00



ATOM	1168	CB	MET	75	6.292	9.123	-2.461	1.00	0.00
ATOM	1169	HB2	MET	75	6.790	9.048	-3.428	1.00	0.00
ATOM	1170	HB3	MET	75	5.583	8.303	-2.353	1.00	0.00
ATOM	1171	CG	MET	75	5.550	10.448	-2.375	1.00	0.00
ATOM	1172	HG2	MET	75	5.806	10.939	-1.436	1.00	0.00
ATOM	1173	HG3	MET	75	5.854	11.081	-3.210	1.00	0.00
ATOM	1174	SD	MET	75	3.755	10.192	-2.444	1.00	0.00
ATOM	1175	CE	MET	75	3.351	11.365	-3.747	1.00	0.00
ATOM	1176	HE1	MET	75	3.880	11.092	-4.660	1.00	0.00
ATOM	1177	HE2	MET	75	2.277	11.349	-3.932	1.00	0.00
ATOM	1178	HE3	MET	75	3.651	12.367	-3.441	1.00	0.00
ATOM	1179	C	MET	75	6.732	8.392	-0.109	1.00	0.00
ATOM	1180	O	MET	75	5.526	8.441	0.087	1.00	0.00
ATOM	1181	N	TRP	76	7.543	7.729	0.706	1.00	0.00
ATOM	1182	H	TRP	76	8.510	7.607	0.441	1.00	0.00
ATOM	1183	CA	TRP	76	7.078	7.092	1.917	1.00	0.00
ATOM	1184	HA	TRP	76	6.253	7.659	2.347	1.00	0.00
ATOM	1185	CB	TRP	76	6.589	5.683	1.600	1.00	0.00
ATOM	1186	HB2	TRP	76	7.264	5.251	0.860	1.00	0.00
ATOM	1187	HB3	TRP	76	6.578	5.056	2.491	1.00	0.00
ATOM	1188	CG	TRP	76	5.214	5.619	1.014	1.00	0.00
ATOM	1189	CD1	TRP	76	4.834	5.063	-0.153	1.00	0.00

ATOM	1190	HD1 TRP	76	5.609	4.588	-0.755	1.00	0.00
ATOM	1191	NE1 TRP	76	3.478	5.232	-0.330	1.00	0.00
ATOM	1192	HE1 TRP	76	2.979	4.869	-1.130	1.00	0.00
ATOM	1193	CE2 TRP	76	2.920	5.927	0.704	1.00	0.00
ATOM	1194	CZ2 TRP	76	1.625	6.338	0.983	1.00	0.00
ATOM	1195	HZ2 TRP	76	0.839	6.108	0.264	1.00	0.00
ATOM	1196	CH2 TRP	76	1.413	7.027	2.178	1.00	0.00
ATOM	1197	HH2 TRP	76	0.403	7.353	2.425	1.00	0.00
ATOM	1198	CZ3 TRP	76	2.450	7.312	3.063	1.00	0.00
ATOM	1199	HZ3 TRP	76	2.287	7.866	3.987	1.00	0.00
ATOM	1200	CE3 TRP	76	3.743	6.886	2.776	1.00	0.00
ATOM	1201	HE3 TRP	76	4.508	7.091	3.524	1.00	0.00
ATOM	1202	CD2 TRP	76	4.007	6.191	1.578	1.00	0.00
ATOM	1203	C TRP	76	8.182	7.117	2.951	1.00	0.00
ATOM	1204	O TRP	76	8.953	6.169	3.083	1.00	0.00
ATOM	1205	N ILE	77	8.305	8.236	3.668	1.00	0.00
ATOM	1206	H ILE	77	7.650	8.987	3.503	1.00	0.00
ATOM	1207	CA ILE	77	9.407	8.469	4.602	1.00	0.00
ATOM	1208	HA ILE	77	10.007	7.571	4.746	1.00	0.00
ATOM	1209	CB ILE	77	10.322	9.635	4.188	1.00	0.00
ATOM	1210	HB ILE	77	9.902	10.573	4.553	1.00	0.00
ATOM	1211	CG2 ILE	77	11.724	9.432	4.790	1.00	0.00

ATOM	1212	HG21	ILE	77	12.145	8.496	4.424	1.00	0.00
ATOM	1213	HG22	ILE	77	12.370	10.260	4.495	1.00	0.00
ATOM	1214	HG23	ILE	77	11.652	9.398	5.877	1.00	0.00
ATOM	1215	CG1	ILE	77	10.374	9.828	2.671	1.00	0.00
ATOM	1216	HG12	ILE	77	9.388	10.153	2.339	1.00	0.00
ATOM	1217	HG13	ILE	77	11.104	10.608	2.455	1.00	0.00
ATOM	1218	CD1	ILE	77	10.764	8.547	1.932	1.00	0.00
ATOM	1219	HD11	ILE	77	10.034	7.767	2.146	1.00	0.00
ATOM	1220	HD12	ILE	77	10.786	8.739	0.859	1.00	0.00
ATOM	1221	HD13	ILE	77	11.750	8.222	2.263	1.00	0.00
ATOM	1222	C	ILE	77	8.818	8.661	5.969	1.00	0.00
ATOM	1223	O	ILE	77	7.879	7.989	6.333	1.00	0.00
ATOM	1224	N	ARG	78	9.315	9.573	6.774	1.00	0.00
ATOM	1225	H	ARG	78	10.097	10.119	6.442	1.00	0.00
ATOM	1226	CA	ARG	78	8.788	9.861	8.079	1.00	0.00
ATOM	1227	HA	ARG	78	9.010	9.033	8.751	1.00	0.00
ATOM	1228	CB	ARG	78	9.400	11.127	8.651	1.00	0.00
ATOM	1229	HB2	ARG	78	9.660	11.799	7.832	1.00	0.00
ATOM	1230	HB3	ARG	78	8.672	11.613	9.301	1.00	0.00
ATOM	1231	CG	ARG	78	10.656	10.793	9.453	1.00	0.00
ATOM	1232	HG2	ARG	78	10.645	11.364	10.381	1.00	0.00
ATOM	1233	HG3	ARG	78	10.656	9.728	9.681	1.00	0.00

ATOM	1234	CD	ARG	78	11.913	11.143	8.656	1.00	0.00
ATOM	1235	HD2	ARG	78	11.831	10.734	7.649	1.00	0.00
ATOM	1236	HD3	ARG	78	12.018	12.227	8.599	1.00	0.00
ATOM	1237	NE	ARG	78	13.114	10.586	9.294	1.00	0.00
ATOM	1238	HE	ARG	78	12.964	10.071	10.149	1.00	0.00
ATOM	1239	CZ	ARG	78	14.350	10.738	8.859	1.00	0.00
ATOM	1240	NH1	ARG	78	14.594	11.402	7.759	1.00	0.00
ATOM	1241	HH11	ARG	78	13.830	11.804	7.235	1.00	0.00
ATOM	1242	HH12	ARG	78	15.546	11.510	7.438	1.00	0.00
ATOM	1243	NH2	ARG	78	15.350	10.193	9.502	1.00	0.00
ATOM	1244	HH21	ARG	78	15.175	9.653	10.336	1.00	0.00
ATOM	1245	HH22	ARG	78	16.293	10.316	9.160	1.00	0.00
ATOM	1246	C	ARG	78	7.309	10.101	8.061	1.00	0.00
ATOM	1247	O	ARG	78	6.706	9.682	9.021	1.00	0.00
ATOM	1248	N	MET	79	6.756	10.637	6.977	1.00	0.00
ATOM	1249	H	MET	79	7.385	10.945	6.249	1.00	0.00
ATOM	1250	CA	MET	79	5.334	10.789	6.763	1.00	0.00
ATOM	1251	HA	MET	79	4.951	11.577	7.411	1.00	0.00
ATOM	1252	CB	MET	79	5.033	11.160	5.315	1.00	0.00
ATOM	1253	HB2	MET	79	3.961	11.053	5.149	1.00	0.00
ATOM	1254	HB3	MET	79	5.322	12.200	5.160	1.00	0.00
ATOM	1255	CG	MET	79	5.794	10.266	4.328	1.00	0.00

ATOM	1256	HG2 MET	79	6.516	9.696	4.912	1.00	0.00
ATOM	1257	HG3 MET	79	5.063	9.586	3.891	1.00	0.00
ATOM	1258	SD MET	79	6.646	11.126	3.023	1.00	0.00
ATOM	1259	CE MET	79	5.561	10.719	1.663	1.00	0.00
ATOM	1260	HE1 MET	79	4.560	11.096	1.871	1.00	0.00
ATOM	1261	HE2 MET	79	5.938	11.177	0.747	1.00	0.00
ATOM	1262	HE3 MET	79	5.523	9.637	1.539	1.00	0.00
ATOM	1263	C MET	79	4.592	9.509	7.047	1.00	0.00
ATOM	1264	O MET	79	3.476	9.563	7.483	1.00	0.00
ATOM	1265	N ARG	80	5.207	8.341	6.929	1.00	0.00
ATOM	1266	H ARG	80	6.103	8.342	6.462	1.00	0.00
ATOM	1267	CA ARG	80	4.658	7.094	7.331	1.00	0.00
ATOM	1268	HA ARG	80	3.729	6.932	6.784	1.00	0.00
ATOM	1269	CB ARG	80	5.580	5.933	7.067	1.00	0.00
ATOM	1270	HB2 ARG	80	6.498	6.077	7.637	1.00	0.00
ATOM	1271	HB3 ARG	80	5.091	5.015	7.392	1.00	0.00
ATOM	1272	CG ARG	80	5.915	5.832	5.583	1.00	0.00
ATOM	1273	HG2 ARG	80	5.085	5.363	5.055	1.00	0.00
ATOM	1274	HG3 ARG	80	6.083	6.831	5.180	1.00	0.00
ATOM	1275	CD ARG	80	7.174	4.992	5.398	1.00	0.00
ATOM	1276	HD2 ARG	80	6.905	3.952	5.576	1.00	0.00
ATOM	1277	HD3 ARG	80	7.500	5.111	4.364	1.00	0.00

ATOM	1278	NE	ARG	80	8.283	5.347	6.282	1.00	0.00
ATOM	1279	HE	ARG	80	8.227	6.295	6.626	1.00	0.00
ATOM	1280	CZ	ARG	80	9.294	4.611	6.649	1.00	0.00
ATOM	1281	NH1	ARG	80	9.409	3.400	6.195	1.00	0.00
ATOM	1282	HH11	ARG	80	8.715	3.035	5.559	1.00	0.00
ATOM	1283	HH12	ARG	80	10.193	2.830	6.479	1.00	0.00
ATOM	1284	NH2	ARG	80	10.184	5.089	7.482	1.00	0.00
ATOM	1285	HH21	ARG	80	10.084	6.029	7.838	1.00	0.00
ATOM	1286	HH22	ARG	80	10.966	4.516	7.764	1.00	0.00
ATOM	1287	C	ARG	80	4.263	7.118	8.769	1.00	0.00
ATOM	1288	O	ARG	80	3.545	6.232	9.085	1.00	0.00
ATOM	1289	N	ASP	81	4.601	8.067	9.609	1.00	0.00
ATOM	1290	H	ASP	81	5.141	8.810	9.188	1.00	0.00
ATOM	1291	CA	ASP	81	4.271	8.170	11.016	1.00	0.00
ATOM	1292	HA	ASP	81	5.007	7.640	11.620	1.00	0.00
ATOM	1293	CB	ASP	81	4.274	9.640	11.423	1.00	0.00
ATOM	1294	HB2	ASP	81	5.072	10.130	10.863	1.00	0.00
ATOM	1295	HB3	ASP	81	3.316	10.084	11.152	1.00	0.00
ATOM	1296	CG	ASP	81	4.515	9.824	12.918	1.00	0.00
ATOM	1297	OD1	ASP	81	4.771	8.820	13.616	1.00	0.00
ATOM	1298	OD2	ASP	81	4.418	10.987	13.350	1.00	0.00
ATOM	1299	C	ASP	81	2.876	7.612	11.297	1.00	0.00

ATOM	1300	O	ASP	81	2.700	6.642	12.028	1.00	0.00
ATOM	1301	N	GLN	82	1.897	8.098	10.523	1.00	0.00
ATOM	1302	H	GLN	82	2.102	8.844	9.873	1.00	0.00
ATOM	1303	CA	GLN	82	0.541	7.645	10.633	1.00	0.00
ATOM	1304	HA	GLN	82	0.326	7.444	11.682	1.00	0.00
ATOM	1305	CB	GLN	82	-0.459	8.656	10.120	1.00	0.00
ATOM	1306	HB2	GLN	82	0.056	9.360	9.466	1.00	0.00
ATOM	1307	HB3	GLN	82	-1.230	8.133	9.554	1.00	0.00
ATOM	1308	CG	GLN	82	-1.100	9.411	11.271	1.00	0.00
ATOM	1309	HG2	GLN	82	-2.006	9.886	10.894	1.00	0.00
ATOM	1310	HG3	GLN	82	-1.359	8.718	12.071	1.00	0.00
ATOM	1311	CD	GLN	82	-0.188	10.486	11.836	1.00	0.00
ATOM	1312	OE1	GLN	82	-0.429	11.669	11.699	1.00	0.00
ATOM	1313	NE2	GLN	82	0.894	10.086	12.461	1.00	0.00
ATOM	1314	HE21	GLN	82	1.529	10.768	12.852	1.00	0.00
ATOM	1315	HE22	GLN	82	1.088	9.099	12.547	1.00	0.00
ATOM	1316	C	GLN	82	0.335	6.361	9.931	1.00	0.00
ATOM	1317	O	GLN	82	0.246	5.384	10.655	1.00	0.00
ATOM	1318	N	VAL	83	0.151	6.379	8.604	1.00	0.00
ATOM	1319	H	VAL	83	0.004	7.296	8.206	1.00	0.00
ATOM	1320	CA	VAL	83	0.078	5.232	7.727	1.00	0.00
ATOM	1321	HA	VAL	83	-0.935	4.842	7.633	1.00	0.00

ATOM	1322	CB	VAL	83	0.623	5.506	6.336	1.00	0.00
ATOM	1323	HB	VAL	83	-0.226	5.607	5.660	1.00	0.00
ATOM	1324	CG1	VAL	83	1.461	6.744	6.271	1.00	0.00
ATOM	1325	HG11	VAL	83	2.311	6.644	6.945	1.00	0.00
ATOM	1326	HG12	VAL	83	1.822	6.887	5.252	1.00	0.00
ATOM	1327	HG13	VAL	83	0.862	7.605	6.567	1.00	0.00
ATOM	1328	CG2	VAL	83	1.387	4.343	5.773	1.00	0.00
ATOM	1329	HG21	VAL	83	0.732	3.474	5.709	1.00	0.00
ATOM	1330	HG22	VAL	83	1.753	4.596	4.777	1.00	0.00
ATOM	1331	HG23	VAL	83	2.232	4.114	6.422	1.00	0.00
ATOM	1332	C	VAL	83	0.799	4.042	8.316	1.00	0.00
ATOM	1333	O	VAL	83	0.216	3.002	8.394	1.00	0.00
ATOM	1334	N	MET	84	2.029	4.130	8.763	1.00	0.00
ATOM	1335	H	MET	84	2.490	5.005	8.556	1.00	0.00
ATOM	1336	CA	MET	84	2.768	3.120	9.478	1.00	0.00
ATOM	1337	HA	MET	84	3.196	2.406	8.775	1.00	0.00
ATOM	1338	CB	MET	84	3.895	3.757	10.269	1.00	0.00
ATOM	1339	HB2	MET	84	4.594	4.211	9.566	1.00	0.00
ATOM	1340	HB3	MET	84	3.471	4.531	10.908	1.00	0.00
ATOM	1341	CG	MET	84	4.626	2.740	11.124	1.00	0.00
ATOM	1342	HG2	MET	84	3.905	2.286	11.802	1.00	0.00
ATOM	1343	HG3	MET	84	5.037	1.975	10.465	1.00	0.00



ATOM	1344	SD	MET	84	5.964	3.476	12.086	1.00	0.00
ATOM	1345	CE	MET	84	5.066	4.907	12.768	1.00	0.00
ATOM	1346	HE1	MET	84	4.222	4.558	13.362	1.00	0.00
ATOM	1347	HE2	MET	84	5.737	5.491	13.398	1.00	0.00
ATOM	1348	HE3	MET	84	4.701	5.531	11.951	1.00	0.00
ATOM	1349	C	MET	84	1.895	2.328	10.438	1.00	0.00
ATOM	1350	O	MET	84	1.703	1.129	10.239	1.00	0.00
ATOM	1351	N	SER	85	1.331	2.994	11.447	1.00	0.00
ATOM	1352	H	SER	85	1.625	3.946	11.614	1.00	0.00
ATOM	1353	CA	SER	85	0.380	2.397	12.363	1.00	0.00
ATOM	1354	HA	SER	85	0.643	1.356	12.548	1.00	0.00
ATOM	1355	CB	SER	85	0.394	3.144	13.686	1.00	0.00
ATOM	1356	HB2	SER	85	1.420	3.370	13.976	1.00	0.00
ATOM	1357	HB3	SER	85	-0.170	4.073	13.596	1.00	0.00
ATOM	1358	OG	SER	85	-0.205	2.320	14.672	1.00	0.00
ATOM	1359	HG	SER	85	-0.204	2.779	15.515	1.00	0.00
ATOM	1360	C	SER	85	-1.040	2.347	11.783	1.00	0.00
ATOM	1361	O	SER	85	-2.030	2.452	12.494	1.00	0.00
ATOM	1362	N	MET	86	-1.169	2.043	10.500	1.00	0.00
ATOM	1363	H	MET	86	-0.324	1.872	9.974	1.00	0.00
ATOM	1364	CA	MET	86	-2.433	1.957	9.810	1.00	0.00
ATOM	1365	HA	MET	86	-3.217	1.619	10.487	1.00	0.00

ATOM	1366	CB	MET	86	-2.803	3.327	9.289	1.00	0.00
ATOM	1367	HB2	MET	86	-1.883	3.833	8.994	1.00	0.00
ATOM	1368	HB3	MET	86	-3.439	3.192	8.414	1.00	0.00
ATOM	1369	CG	MET	86	-3.532	4.166	10.318	1.00	0.00
ATOM	1370	HG2	MET	86	-2.903	4.290	11.199	1.00	0.00
ATOM	1371	HG3	MET	86	-3.761	5.145	9.895	1.00	0.00
ATOM	1372	SD	MET	86	-5.073	3.350	10.797	1.00	0.00
ATOM	1373	CE	MET	86	-5.511	4.388	12.202	1.00	0.00
ATOM	1374	HE1	MET	86	-5.630	5.420	11.869	1.00	0.00
ATOM	1375	HE2	MET	86	-6.447	4.037	12.636	1.00	0.00
ATOM	1376	HE3	MET	86	-4.721	4.338	12.951	1.00	0.00
ATOM	1377	C	MET	86	-2.394	0.988	8.646	1.00	0.00
ATOM	1378	O	MET	86	-3.208	0.088	8.578	1.00	0.00
ATOM	1379	N	ALA	87	-1.375	1.025	7.812	1.00	0.00
ATOM	1380	H	ALA	87	-0.741	1.799	7.948	1.00	0.00
ATOM	1381	CA	ALA	87	-1.123	0.127	6.733	1.00	0.00
ATOM	1382	HA	ALA	87	-2.049	-0.133	6.220	1.00	0.00
ATOM	1383	CB	ALA	87	-0.179	0.784	5.730	1.00	0.00
ATOM	1384	HB1	ALA	87	0.757	1.043	6.226	1.00	0.00
ATOM	1385	HB2	ALA	87	0.023	0.092	4.912	1.00	0.00
ATOM	1386	HB3	ALA	87	-0.641	1.688	5.333	1.00	0.00
ATOM	1387	C	ALA	87	-0.547	-1.163	7.281	1.00	0.00

ATOM	1388	O	ALA	87	-0.148	-2.005	6.512	1.00	0.00
ATOM	1389	N	HIE	88	-0.424	-1.328	8.590	1.00	0.00
ATOM	1390	H	HIE	88	-0.605	-0.536	9.190	1.00	0.00
ATOM	1391	CA	HIE	88	0.023	-2.552	9.194	1.00	0.00
ATOM	1392	HA	HIE	88	0.552	-3.171	8.469	1.00	0.00
ATOM	1393	CB	HIE	88	0.978	-2.207	10.328	1.00	0.00
ATOM	1394	HB2	HIE	88	1.601	-3.071	10.556	1.00	0.00
ATOM	1395	HB3	HIE	88	1.610	-1.379	10.006	1.00	0.00
ATOM	1396	CG	HIE	88	0.336	-1.782	11.628	1.00	0.00
ATOM	1397	ND1	HIE	88	0.610	-2.337	12.859	1.00	0.00
ATOM	1398	CE1	HIE	88	-0.123	-1.676	13.784	1.00	0.00
ATOM	1399	HE1	HIE	88	-0.028	-1.940	14.837	1.00	0.00
ATOM	1400	NE2	HIE	88	-0.890	-0.742	13.166	1.00	0.00
ATOM	1401	HE2	HIE	88	-1.548	-0.103	13.588	1.00	0.00
ATOM	1402	CD2	HIE	88	-0.611	-0.813	11.815	1.00	0.00
ATOM	1403	HD2	HIE	88	-1.126	-0.153	11.116	1.00	0.00
ATOM	1404	C	HIE	88	-1.164	-3.358	9.659	1.00	0.00
ATOM	1405	O	HIE	88	-1.027	-4.542	9.829	1.00	0.00
ATOM	1406	N	ASN	89	-2.295	-2.718	9.936	1.00	0.00
ATOM	1407	H	ASN	89	-2.304	-1.711	9.850	1.00	0.00
ATOM	1408	CA	ASN	89	-3.515	-3.383	10.328	1.00	0.00
ATOM	1409	HA	ASN	89	-3.304	-4.413	10.613	1.00	0.00

ATOM	1410	CB	ASN	89	-4.138	-2.666	11.518	1.00	0.00
ATOM	1411	HB2	ASN	89	-3.903	-1.602	11.471	1.00	0.00
ATOM	1412	HB3	ASN	89	-5.220	-2.799	11.510	1.00	0.00
ATOM	1413	CG	ASN	89	-3.593	-3.223	12.807	1.00	0.00
ATOM	1414	OD1	ASN	89	-4.272	-3.588	13.732	1.00	0.00
ATOM	1415	ND2	ASN	89	-2.291	-3.297	12.894	1.00	0.00
ATOM	1416	HD21	ASN	89	-1.864	-3.661	13.733	1.00	0.00
ATOM	1417	HD22	ASN	89	-1.718	-2.989	12.121	1.00	0.00
ATOM	1418	C	ASN	89	-4.517	-3.358	9.201	1.00	0.00
ATOM	1419	O	ASN	89	-5.375	-4.197	9.181	1.00	0.00
ATOM	1420	N	LEU	90	-4.413	-2.429	8.260	1.00	0.00
ATOM	1421	H	LEU	90	-3.745	-1.684	8.401	1.00	0.00
ATOM	1422	CA	LEU	90	-5.257	-2.380	7.083	1.00	0.00
ATOM	1423	HA	LEU	90	-6.306	-2.324	7.372	1.00	0.00
ATOM	1424	CB	LEU	90	-4.911	-1.136	6.254	1.00	0.00
ATOM	1425	HB2	LEU	90	-3.842	-0.974	6.393	1.00	0.00
ATOM	1426	HB3	LEU	90	-5.112	-1.346	5.203	1.00	0.00
ATOM	1427	CG	LEU	90	-5.674	0.118	6.677	1.00	0.00
ATOM	1428	HG	LEU	90	-5.697	0.175	7.765	1.00	0.00
ATOM	1429	CD1	LEU	90	-4.983	1.366	6.115	1.00	0.00
ATOM	1430	HD11	LEU	90	-4.960	1.311	5.026	1.00	0.00
ATOM	1431	HD12	LEU	90	-5.533	2.256	6.421	1.00	0.00

ATOM	1432	HD13	LEU	90	-3.963	1.421	6.497	1.00	0.00
ATOM	1433	CD2	LEU	90	-7.117	0.038	6.187	1.00	0.00
ATOM	1434	HD21	LEU	90	-7.600	-0.838	6.618	1.00	0.00
ATOM	1435	HD22	LEU	90	-7.655	0.936	6.492	1.00	0.00
ATOM	1436	HD23	LEU	90	-7.128	-0.039	5.099	1.00	0.00
ATOM	1437	C	LEU	90	-5.129	-3.661	6.256	1.00	0.00
ATOM	1438	O	LEU	90	-6.132	-4.279	5.922	1.00	0.00
ATOM	1439	N	PRO	91	-3.895	-4.084	5.929	1.00	0.00
ATOM	1440	CD	PRO	91	-2.635	-3.470	6.271	1.00	0.00
ATOM	1441	HD2	PRO	91	-2.524	-3.548	7.352	1.00	0.00
ATOM	1442	HD3	PRO	91	-2.704	-2.419	5.989	1.00	0.00
ATOM	1443	CG	PRO	91	-1.546	-4.194	5.524	1.00	0.00
ATOM	1444	HG2	PRO	91	-0.869	-4.664	6.237	1.00	0.00
ATOM	1445	HG3	PRO	91	-0.991	-3.481	4.912	1.00	0.00
ATOM	1446	CB	PRO	91	-2.234	-5.216	4.665	1.00	0.00
ATOM	1447	HB2	PRO	91	-1.735	-6.173	4.812	1.00	0.00
ATOM	1448	HB3	PRO	91	-2.236	-4.968	3.603	1.00	0.00
ATOM	1449	CA	PRO	91	-3.663	-5.291	5.184	1.00	0.00
ATOM	1450	HA	PRO	91	-4.368	-5.341	4.354	1.00	0.00
ATOM	1451	C	PRO	91	-3.850	-6.494	6.076	1.00	0.00
ATOM	1452	O	PRO	91	-4.364	-7.492	5.630	1.00	0.00
ATOM	1453	N	ILE	92	-3.474	-6.447	7.334	1.00	0.00

ATOM	1454	H	ILE	92	-2.987	-5.632	7.679	1.00	0.00
ATOM	1455	CA	ILE	92	-3.681	-7.557	8.238	1.00	0.00
ATOM	1456	HA	ILE	92	-3.322	-8.516	7.864	1.00	0.00
ATOM	1457	CB	ILE	92	-2.993	-7.238	9.559	1.00	0.00
ATOM	1458	HB	ILE	92	-3.026	-6.160	9.717	1.00	0.00
ATOM	1459	CG2	ILE	92	-3.684	-7.948	10.729	1.00	0.00
ATOM	1460	HG21	ILE	92	-3.651	-9.026	10.571	1.00	0.00
ATOM	1461	HG22	ILE	92	-3.171	-7.701	11.658	1.00	0.00
ATOM	1462	HG23	ILE	92	-4.722	-7.622	10.790	1.00	0.00
ATOM	1463	CG1	ILE	92	-1.503	-7.565	9.480	1.00	0.00
ATOM	1464	HG12	ILE	92	-1.377	-8.307	8.692	1.00	0.00
ATOM	1465	HG13	ILE	92	-0.985	-6.647	9.200	1.00	0.00
ATOM	1466	CD1	ILE	92	-0.920	-8.099	10.776	1.00	0.00
ATOM	1467	HD11	ILE	92	-1.436	-9.016	11.056	1.00	0.00
ATOM	1468	HD12	ILE	92	0.141	-8.307	10.639	1.00	0.00
ATOM	1469	HD13	ILE	92	-1.045	-7.356	11.564	1.00	0.00
ATOM	1470	C	ILE	92	-5.157	-7.836	8.439	1.00	0.00
ATOM	1471	O	ILE	92	-5.543	-8.994	8.383	1.00	0.00
ATOM	1472	N	GLU	93	-5.958	-6.797	8.636	1.00	0.00
ATOM	1473	H	GLU	93	-5.557	-5.871	8.684	1.00	0.00
ATOM	1474	CA	GLU	93	-7.396	-6.937	8.814	1.00	0.00
ATOM	1475	HA	GLU	93	-7.598	-7.638	9.623	1.00	0.00

ATOM	1476	CB	GLU	93	-8.036	-5.587	9.163	1.00	0.00
ATOM	1477	HB2	GLU	93	-7.511	-4.800	8.620	1.00	0.00
ATOM	1478	HB3	GLU	93	-9.081	-5.605	8.853	1.00	0.00
ATOM	1479	CG	GLU	93	-7.954	-5.310	10.672	1.00	0.00
ATOM	1480	HG2	GLU	93	-7.562	-6.204	11.157	1.00	0.00
ATOM	1481	HG3	GLU	93	-7.282	-4.472	10.857	1.00	0.00
ATOM	1482	CD	GLU	93	-9.338	-4.988	11.238	1.00	0.00
ATOM	1483	OE1	GLU	93	-9.957	-4.025	10.725	1.00	0.00
ATOM	1484	OE2	GLU	93	-9.750	-5.690	12.186	1.00	0.00
ATOM	1485	C	GLU	93	-8.047	-7.487	7.547	1.00	0.00
ATOM	1486	O	GLU	93	-9.146	-8.026	7.595	1.00	0.00
ATOM	1487	N	CYX	94	-7.354	-7.366	6.411	1.00	0.00
ATOM	1488	H	CYX	94	-6.522	-6.792	6.397	1.00	0.00
ATOM	1489	CA	CYX	94	-7.793	-7.959	5.176	1.00	0.00
ATOM	1490	HA	CYX	94	-8.878	-8.062	5.170	1.00	0.00
ATOM	1491	CB	CYX	94	-7.383	-7.066	4.009	1.00	0.00
ATOM	1492	HB2	CYX	94	-6.441	-6.570	4.243	1.00	0.00
ATOM	1493	HB3	CYX	94	-7.260	-7.673	3.112	1.00	0.00
ATOM	1494	SG	CYX	94	-8.645	-5.816	3.612	1.00	0.00
ATOM	1495	C	CYX	94	-7.257	-9.366	5.011	1.00	0.00
ATOM	1496	O	CYX	94	-7.709	-10.016	4.075	1.00	0.00
ATOM	1497	N	ASN	95	-6.295	-9.791	5.845	1.00	0.00

ATOM	1498	H	ASN	95	-5.980	-9.110	6.521	1.00	0.00
ATOM	1499	CA	ASN	95	-5.650	-11.093	5.826	1.00	0.00
ATOM	1500	HA	ASN	95	-5.209	-11.309	6.799	1.00	0.00
ATOM	1501	CB	ASN	95	-6.685	-12.176	5.506	1.00	0.00
ATOM	1502	HB2	ASN	95	-7.630	-11.865	5.950	1.00	0.00
ATOM	1503	HB3	ASN	95	-6.811	-12.292	4.429	1.00	0.00
ATOM	1504	CG	ASN	95	-6.293	-13.503	6.090	1.00	0.00
ATOM	1505	OD1	ASN	95	-7.030	-14.099	6.848	1.00	0.00
ATOM	1506	ND2	ASN	95	-5.106	-13.970	5.786	1.00	0.00
ATOM	1507	HD21	ASN	95	-4.806	-14.859	6.159	1.00	0.00
ATOM	1508	HD22	ASN	95	-4.497	-13.438	5.180	1.00	0.00
ATOM	1509	C	ASN	95	-4.511	-11.065	4.788	1.00	0.00
ATOM	1510	O	ASN	95	-4.152	-12.043	4.156	1.00	0.00
ATOM	1511	N	LEU	96	-3.974	-9.911	4.471	1.00	0.00
ATOM	1512	H	LEU	96	-4.356	-9.079	4.897	1.00	0.00
ATOM	1513	CA	LEU	96	-2.951	-9.757	3.476	1.00	0.00
ATOM	1514	HA	LEU	96	-3.122	-10.468	2.668	1.00	0.00
ATOM	1515	CB	LEU	96	-2.951	-8.356	2.896	1.00	0.00
ATOM	1516	HB2	LEU	96	-2.537	-7.763	3.711	1.00	0.00
ATOM	1517	HB3	LEU	96	-2.293	-8.289	2.029	1.00	0.00
ATOM	1518	CG	LEU	96	-4.335	-7.820	2.528	1.00	0.00
ATOM	1519	HG	LEU	96	-4.984	-7.889	3.400	1.00	0.00



ATOM	1520	CD1	LEU	96	-4.247	-6.385	2.082	1.00	0.00
ATOM	1521	HD11	LEU	96	-3.598	-6.314	1.209	1.00	0.00
ATOM	1522	HD12	LEU	96	-5.242	-6.022	1.824	1.00	0.00
ATOM	1523	HD13	LEU	96	-3.837	-5.777	2.888	1.00	0.00
ATOM	1524	CD2	LEU	96	-5.036	-8.682	1.498	1.00	0.00
ATOM	1525	HD21	LEU	96	-5.161	-9.690	1.891	1.00	0.00
ATOM	1526	HD22	LEU	96	-6.014	-8.256	1.272	1.00	0.00
ATOM	1527	HD23	LEU	96	-4.438	-8.719	0.587	1.00	0.00
ATOM	1528	C	LEU	96	-1.651	-10.156	4.127	1.00	0.00
ATOM	1529	O	LEU	96	-1.098	-11.172	3.758	1.00	0.00
ATOM	1530	N	MET	97	-1.269	-9.453	5.191	1.00	0.00
ATOM	1531	H	MET	97	-1.840	-8.671	5.478	1.00	0.00
ATOM	1532	CA	MET	97	-0.041	-9.705	5.908	1.00	0.00
ATOM	1533	HA	MET	97	0.470	-10.572	5.491	1.00	0.00
ATOM	1534	CB	MET	97	0.874	-8.495	5.783	1.00	0.00
ATOM	1535	HB2	MET	97	1.845	-8.760	6.200	1.00	0.00
ATOM	1536	HB3	MET	97	0.985	-8.263	4.723	1.00	0.00
ATOM	1537	CG	MET	97	0.327	-7.284	6.510	1.00	0.00
ATOM	1538	HG2	MET	97	0.179	-6.489	5.778	1.00	0.00
ATOM	1539	HG3	MET	97	-0.633	-7.557	6.947	1.00	0.00
ATOM	1540	SD	MET	97	1.430	-6.691	7.819	1.00	0.00
ATOM	1541	CE	MET	97	2.903	-6.409	6.814	1.00	0.00

ATOM	1542	HE1	MET	97	2.680	-5.675	6.039	1.00	0.00
ATOM	1543	HE2	MET	97	3.709	-6.035	7.446	1.00	0.00
ATOM	1544	HE3	MET	97	3.211	-7.345	6.348	1.00	0.00
ATOM	1545	C	MET	97	-0.270	-10.048	7.345	1.00	0.00
ATOM	1546	O	MET	97	0.632	-9.779	8.129	1.00	0.00
ATOM	1547	N	SER	98	-1.471	-10.554	7.666	1.00	0.00
ATOM	1548	H	SER	98	-2.155	-10.654	6.929	1.00	0.00
ATOM	1549	CA	SER	98	-1.868	-10.892	9.030	1.00	0.00
ATOM	1550	HA	SER	98	-2.193	-9.989	9.548	1.00	0.00
ATOM	1551	CB	SER	98	-3.011	-11.894	9.036	1.00	0.00
ATOM	1552	HB2	SER	98	-3.285	-12.103	10.069	1.00	0.00
ATOM	1553	HB3	SER	98	-3.862	-11.454	8.516	1.00	0.00
ATOM	1554	OG	SER	98	-2.637	-13.101	8.393	1.00	0.00
ATOM	1555	HG	SER	98	-3.375	-13.714	8.410	1.00	0.00
ATOM	1556	C	SER	98	-0.706	-11.431	9.881	1.00	0.00
ATOM	1557	O	SER	98	-0.110	-10.796	10.739	1.00	0.00
ATOM	1558	N	GLN	99	-0.250	-12.617	9.566	1.00	0.00
ATOM	1559	H	GLN	99	-0.799	-13.188	8.939	1.00	0.00
ATOM	1560	CA	GLN	99	0.958	-13.179	10.124	1.00	0.00
ATOM	1561	HA	GLN	99	1.751	-12.438	10.229	1.00	0.00
ATOM	1562	CB	GLN	99	0.564	-13.669	11.509	1.00	0.00
ATOM	1563	HB2	GLN	99	-0.440	-13.317	11.746	1.00	0.00

ATOM	1564	HB3	GLN	99	0.581	-14.758	11.527	1.00	0.00
ATOM	1565	CG	GLN	99	1.545	-13.130	12.536	1.00	0.00
ATOM	1566	HG2	GLN	99	2.392	-13.813	12.590	1.00	0.00
ATOM	1567	HG3	GLN	99	1.895	-12.140	12.241	1.00	0.00
ATOM	1568	CD	GLN	99	0.912	-13.030	13.913	1.00	0.00
ATOM	1569	OE1	GLN	99	-0.168	-13.511	14.206	1.00	0.00
ATOM	1570	NE2	GLN	99	1.588	-12.355	14.815	1.00	0.00
ATOM	1571	HE21	GLN	99	1.217	-12.254	15.749	1.00	0.00
ATOM	1572	HE22	GLN	99	2.476	-11.939	14.570	1.00	0.00
ATOM	1573	C	GLN	99	1.527	-14.273	9.223	1.00	0.00
ATOM	1574	O	GLN	99	1.713	-15.419	9.630	1.00	0.00
ATOM	1575	N	PRO	100	1.764	-13.950	7.943	1.00	0.00
ATOM	1576	CD	PRO	100	1.615	-12.654	7.311	1.00	0.00
ATOM	1577	HD2	PRO	100	2.358	-11.988	7.750	1.00	0.00
ATOM	1578	HD3	PRO	100	0.616	-12.288	7.546	1.00	0.00
ATOM	1579	CG	PRO	100	1.821	-12.854	5.828	1.00	0.00
ATOM	1580	HG2	PRO	100	2.674	-12.257	5.505	1.00	0.00
ATOM	1581	HG3	PRO	100	0.927	-12.523	5.298	1.00	0.00
ATOM	1582	CB	PRO	100	2.065	-14.332	5.607	1.00	0.00
ATOM	1583	HB2	PRO	100	2.962	-14.450	4.999	1.00	0.00
ATOM	1584	HB3	PRO	100	1.230	-14.839	5.124	1.00	0.00
ATOM	1585	CA	PRO	100	2.300	-14.924	7.005	1.00	0.00

ATOM	1586	HA	PRO	100	1.748	-15.858	7.107	1.00	0.00
ATOM	1587	C	PRO	100	3.782	-15.175	7.286	1.00	0.00
ATOM	1588	O	PRO	100	4.167	-16.295	7.603	1.00	0.00
ATOM	1589	N	CYX	101	4.614	-14.150	7.110	1.00	0.00
ATOM	1590	H	CYX	101	4.262	-13.276	6.745	1.00	0.00
ATOM	1591	CA	CYX	101	6.029	-14.267	7.353	1.00	0.00
ATOM	1592	HA	CYX	101	6.407	-15.195	6.924	1.00	0.00
ATOM	1593	CB	CYX	101	6.767	-13.095	6.708	1.00	0.00
ATOM	1594	HB2	CYX	101	6.782	-12.250	7.397	1.00	0.00
ATOM	1595	HB3	CYX	101	7.790	-13.392	6.475	1.00	0.00
ATOM	1596	SG	CYX	101	6.019	-12.458	5.158	1.00	0.00
ATOM	1597	C	CYX	101	6.251	-14.345	8.856	1.00	0.00
ATOM	1598	O	CYX	101	5.783	-13.474	9.594	1.00	0.00
ATOM	1599	N	GLN	102	6.971	-15.366	9.291	1.00	0.00
ATOM	1600	H	GLN	102	7.269	-16.070	8.631	1.00	0.00
ATOM	1601	CA	GLN	102	7.291	-15.557	10.696	1.00	0.00
ATOM	1602	HA	GLN	102	6.975	-14.687	11.271	1.00	0.00
ATOM	1603	CB	GLN	102	6.569	-16.790	11.238	1.00	0.00
ATOM	1604	HB2	GLN	102	6.890	-17.664	10.671	1.00	0.00
ATOM	1605	HB3	GLN	102	6.834	-16.921	12.287	1.00	0.00
ATOM	1606	CG	GLN	102	5.051	-16.628	11.111	1.00	0.00
ATOM	1607	HG2	GLN	102	4.813	-15.575	11.263	1.00	0.00

ATOM	1608	HG3	GLN	102	4.711	-16.937	10.122	1.00	0.00
ATOM	1609	CD	GLN	102	4.318	-17.446	12.153	1.00	0.00
ATOM	1610	OE1	GLN	102	4.322	-17.143	13.333	1.00	0.00
ATOM	1611	NE2	GLN	102	3.699	-18.528	11.739	1.00	0.00
ATOM	1612	HE21	GLN	102	3.198	-19.103	12.400	1.00	0.00
ATOM	1613	HE22	GLN	102	3.728	-18.779	10.761	1.00	0.00
ATOM	1614	C	GLN	102	8.795	-15.666	10.887	1.00	0.00
ATOM	1615	O	GLN	102	9.557	-15.521	9.926	1.00	0.00
ATOM	1616	N	MET	103	9.209	-15.843	12.140	1.00	0.00
ATOM	1617	H	MET	103	8.531	-15.780	12.886	1.00	0.00
ATOM	1618	CA	MET	103	10.609	-16.043	12.493	1.00	0.00
ATOM	1619	HA	MET	103	11.273	-15.644	11.725	1.00	0.00
ATOM	1620	CB	MET	103	10.861	-15.285	13.800	1.00	0.00
ATOM	1621	HB2	MET	103	9.999	-14.652	14.010	1.00	0.00
ATOM	1622	HB3	MET	103	10.986	-16.007	14.606	1.00	0.00
ATOM	1623	CG	MET	103	12.116	-14.418	13.695	1.00	0.00
ATOM	1624	HG2	MET	103	12.450	-14.410	12.657	1.00	0.00
ATOM	1625	HG3	MET	103	11.867	-13.402	14.003	1.00	0.00
ATOM	1626	SD	MET	103	13.450	-15.049	14.745	1.00	0.00
ATOM	1627	CE	MET	103	13.767	-13.576	15.729	1.00	0.00
ATOM	1628	HE1	MET	103	12.863	-13.299	16.271	1.00	0.00
ATOM	1629	HE2	MET	103	14.568	-13.778	16.439	1.00	0.00

ATOM	1630	HE3	MET	103	14.062	-12.756	15.073	1.00	0.00
ATOM	1631	C	MET	103	11.009	-17.529	12.611	1.00	0.00
ATOM	1632	O	MET	103	10.127	-18.294	13.080	1.00	0.00
ATOM	1633	OXT	MET	103	12.181	-17.804	12.255	1.00	0.00
TER									
ATOM	1634	S1	LIG	104	-28.224	20.354	5.931	1.00	0.00
ATOM	1635	O1	LIG	104	-26.675	19.963	5.656	1.00	0.00
ATOM	1636	O2	LIG	104	-28.851	19.588	4.655	1.00	0.00
ATOM	1637	H26	LIG	104	-28.661	20.090	3.848	1.00	0.00
ATOM	1638	O3	LIG	104	-28.713	19.667	7.100	1.00	0.00
ATOM	1639	O4	LIG	104	-28.387	21.785	5.769	1.00	0.00
ATOM	1640	C1	LIG	104	-19.351	19.713	7.330	1.00	0.00
ATOM	1641	H1	LIG	104	-19.362	18.626	7.179	1.00	0.00
ATOM	1642	H2	LIG	104	-19.114	20.152	6.352	1.00	0.00
ATOM	1643	C2	LIG	104	-18.243	20.074	8.326	1.00	0.00
ATOM	1644	H3	LIG	104	-18.478	19.634	9.304	1.00	0.00
ATOM	1645	H4	LIG	104	-18.231	21.161	8.477	1.00	0.00
ATOM	1646	C3	LIG	104	-20.743	20.177	7.769	1.00	0.00
ATOM	1647	H5	LIG	104	-20.733	21.265	7.917	1.00	0.00
ATOM	1648	H6	LIG	104	-20.978	19.739	8.748	1.00	0.00
ATOM	1649	C4	LIG	104	-16.848	19.612	7.888	1.00	0.00
ATOM	1650	H7	LIG	104	-16.611	20.052	6.910	1.00	0.00

ATOM	1651	H8	LIG	104	-16.859	18.525	7.736	1.00	0.00
ATOM	1652	C5	LIG	104	-21.852	19.813	6.775	1.00	0.00
ATOM	1653	H9	LIG	104	-21.617	20.249	5.795	1.00	0.00
ATOM	1654	H10	LIG	104	-21.866	18.726	6.629	1.00	0.00
ATOM	1655	C6	LIG	104	-15.740	19.971	8.884	1.00	0.00
ATOM	1656	H11	LIG	104	-15.976	19.532	9.862	1.00	0.00
ATOM	1657	H12	LIG	104	-15.729	21.059	9.036	1.00	0.00
ATOM	1658	C7	LIG	104	-23.243	20.282	7.216	1.00	0.00
ATOM	1659	H13	LIG	104	-23.476	19.848	8.197	1.00	0.00
ATOM	1660	H14	LIG	104	-23.229	21.370	7.357	1.00	0.00
ATOM	1661	C8	LIG	104	-14.346	19.509	8.447	1.00	0.00
ATOM	1662	H15	LIG	104	-14.355	18.422	8.295	1.00	0.00
ATOM	1663	H16	LIG	104	-14.109	19.949	7.469	1.00	0.00
ATOM	1664	C9	LIG	104	-24.344	19.907	6.215	1.00	0.00
ATOM	1665	H17	LIG	104	-24.379	18.820	6.085	1.00	0.00
ATOM	1666	H18	LIG	104	-24.124	20.342	5.235	1.00	0.00
ATOM	1667	C10	LIG	104	-13.236	19.869	9.442	1.00	0.00
ATOM	1668	H19	LIG	104	-13.474	19.430	10.419	1.00	0.00
ATOM	1669	H20	LIG	104	-13.226	20.956	9.593	1.00	0.00
ATOM	1670	C11	LIG	104	-25.708	20.388	6.673	1.00	0.00
ATOM	1671	H21	LIG	104	-25.996	19.940	7.627	1.00	0.00
ATOM	1672	H22	LIG	104	-25.748	21.478	6.754	1.00	0.00

ATOM	1673	C12	LIG	104	-11.847	19.402	8.997	1.00	0.00
ATOM	1674	H23	LIG	104	-11.568	19.852	8.038	1.00	0.00
ATOM	1675	H24	LIG	104	-11.081	19.675	9.726	1.00	0.00
ATOM	1676	H25	LIG	104	-11.816	18.315	8.873	1.00	0.00
TER									
ATOM	1677	S1	LIG	105	29.217	-12.416	20.059	1.00	0.00
ATOM	1678	O1	LIG	105	28.212	-11.370	20.783	1.00	0.00
ATOM	1679	O2	LIG	105	28.991	-13.646	21.081	1.00	0.00
ATOM	1680	H26	LIG	105	29.455	-13.469	21.913	1.00	0.00
ATOM	1681	O3	LIG	105	28.675	-12.834	18.791	1.00	0.00
ATOM	1682	O4	LIG	105	30.576	-11.927	20.180	1.00	0.00
ATOM	1683	C1	LIG	105	24.478	-4.873	21.383	1.00	0.00
ATOM	1684	H1	LIG	105	23.543	-5.432	21.512	1.00	0.00
ATOM	1685	H2	LIG	105	24.890	-4.731	22.390	1.00	0.00
ATOM	1686	C2	LIG	105	24.168	-3.503	20.768	1.00	0.00
ATOM	1687	H3	LIG	105	23.756	-3.643	19.761	1.00	0.00
ATOM	1688	H4	LIG	105	25.104	-2.943	20.638	1.00	0.00
ATOM	1689	C3	LIG	105	25.456	-5.709	20.550	1.00	0.00
ATOM	1690	H5	LIG	105	26.393	-5.150	20.422	1.00	0.00
ATOM	1691	H6	LIG	105	25.045	-5.848	19.541	1.00	0.00
ATOM	1692	C4	LIG	105	23.191	-2.664	21.600	1.00	0.00
ATOM	1693	H7	LIG	105	23.603	-2.522	22.608	1.00	0.00



ATOM	1694	H8	LIG	105	22.256	-3.223	21.731	1.00	0.00
ATOM	1695	C5	LIG	105	25.765	-7.080	21.162	1.00	0.00
ATOM	1696	H9	LIG	105	26.173	-6.943	22.171	1.00	0.00
ATOM	1697	H10	LIG	105	24.830	-7.641	21.286	1.00	0.00
ATOM	1698	C6	LIG	105	22.879	-1.294	20.986	1.00	0.00
ATOM	1699	H11	LIG	105	22.468	-1.436	19.978	1.00	0.00
ATOM	1700	H12	LIG	105	23.815	-0.735	20.855	1.00	0.00
ATOM	1701	C7	LIG	105	26.745	-7.912	20.328	1.00	0.00
ATOM	1702	H13	LIG	105	26.336	-8.047	19.319	1.00	0.00
ATOM	1703	H14	LIG	105	27.682	-7.353	20.209	1.00	0.00
ATOM	1704	C8	LIG	105	21.902	-0.455	21.817	1.00	0.00
ATOM	1705	H15	LIG	105	20.965	-1.013	21.948	1.00	0.00
ATOM	1706	H16	LIG	105	22.313	-0.314	22.825	1.00	0.00
ATOM	1707	C9	LIG	105	27.041	-9.284	20.949	1.00	0.00
ATOM	1708	H17	LIG	105	26.114	-9.858	21.052	1.00	0.00
ATOM	1709	H18	LIG	105	27.456	-9.159	21.954	1.00	0.00
ATOM	1710	C10	LIG	105	21.590	0.915	21.204	1.00	0.00
ATOM	1711	H19	LIG	105	21.180	0.773	20.196	1.00	0.00
ATOM	1712	H20	LIG	105	22.526	1.473	21.074	1.00	0.00
ATOM	1713	C11	LIG	105	28.018	-10.083	20.107	1.00	0.00
ATOM	1714	H21	LIG	105	27.626	-10.278	19.107	1.00	0.00
ATOM	1715	H22	LIG	105	28.988	-9.585	20.029	1.00	0.00

ATOM	1716	C12	LIG	105	20.612	1.745	22.041	1.00	0.00
ATOM	1717	H23	LIG	105	21.011	1.932	23.044	1.00	0.00
ATOM	1718	H24	LIG	105	20.413	2.715	21.578	1.00	0.00
ATOM	1719	H25	LIG	105	19.655	1.229	22.158	1.00	0.00
TER									
ATOM	1720	S1	LIG	106	-28.823	-26.119	0.351	1.00	0.00
ATOM	1721	O1	LIG	106	-27.972	-24.781	0.691	1.00	0.00
ATOM	1722	O2	LIG	106	-30.240	-25.603	0.929	1.00	0.00
ATOM	1723	H26	LIG	106	-30.223	-25.620	1.898	1.00	0.00
ATOM	1724	O3	LIG	106	-28.990	-26.258	-1.074	1.00	0.00
ATOM	1725	O4	LIG	106	-28.333	-27.212	1.168	1.00	0.00
ATOM	1726	C1	LIG	106	-21.832	-20.446	0.571	1.00	0.00
ATOM	1727	H1	LIG	106	-22.430	-19.625	0.156	1.00	0.00
ATOM	1728	H2	LIG	106	-21.887	-20.341	1.662	1.00	0.00
ATOM	1729	C2	LIG	106	-20.374	-20.287	0.122	1.00	0.00
ATOM	1730	H3	LIG	106	-20.319	-20.391	-0.969	1.00	0.00
ATOM	1731	H4	LIG	106	-19.776	-21.109	0.536	1.00	0.00
ATOM	1732	C3	LIG	106	-22.456	-21.784	0.159	1.00	0.00
ATOM	1733	H5	LIG	106	-21.859	-22.606	0.576	1.00	0.00
ATOM	1734	H6	LIG	106	-22.398	-21.889	-0.932	1.00	0.00
ATOM	1735	C4	LIG	106	-19.747	-18.950	0.533	1.00	0.00
ATOM	1736	H7	LIG	106	-19.802	-18.845	1.625	1.00	0.00

ATOM	1737	H8	LIG	106	-20.346	-18.128	0.121	1.00	0.00
ATOM	1738	C5	LIG	106	-23.914	-21.942	0.605	1.00	0.00
ATOM	1739	H9	LIG	106	-23.973	-21.835	1.696	1.00	0.00
ATOM	1740	H10	LIG	106	-24.512	-21.124	0.186	1.00	0.00
ATOM	1741	C6	LIG	106	-18.291	-18.790	0.084	1.00	0.00
ATOM	1742	H11	LIG	106	-18.236	-18.895	-1.007	1.00	0.00
ATOM	1743	H12	LIG	106	-17.692	-19.612	0.498	1.00	0.00
ATOM	1744	C7	LIG	106	-24.534	-23.282	0.194	1.00	0.00
ATOM	1745	H13	LIG	106	-24.472	-23.390	-0.896	1.00	0.00
ATOM	1746	H14	LIG	106	-23.938	-24.101	0.618	1.00	0.00
ATOM	1747	C8	LIG	106	-17.663	-17.453	0.495	1.00	0.00
ATOM	1748	H15	LIG	106	-18.261	-16.629	0.082	1.00	0.00
ATOM	1749	H16	LIG	106	-17.719	-17.348	1.587	1.00	0.00
ATOM	1750	C9	LIG	106	-25.995	-23.426	0.641	1.00	0.00
ATOM	1751	H17	LIG	106	-26.602	-22.626	0.205	1.00	0.00
ATOM	1752	H18	LIG	106	-26.065	-23.328	1.729	1.00	0.00
ATOM	1753	C10	LIG	106	-16.206	-17.292	0.047	1.00	0.00
ATOM	1754	H19	LIG	106	-16.152	-17.398	-1.044	1.00	0.00
ATOM	1755	H20	LIG	106	-15.609	-18.113	0.461	1.00	0.00
ATOM	1756	C11	LIG	106	-26.580	-24.763	0.229	1.00	0.00
ATOM	1757	H21	LIG	106	-26.579	-24.888	-0.857	1.00	0.00
ATOM	1758	H22	LIG	106	-26.051	-25.599	0.694	1.00	0.00

ATOM	1759	C12	LIG	106	-15.589	-15.953	0.461	1.00	0.00
ATOM	1760	H23	LIG	106	-15.599	-15.833	1.550	1.00	0.00
ATOM	1761	H24	LIG	106	-14.551	-15.871	0.128	1.00	0.00
ATOM	1762	H25	LIG	106	-16.143	-15.112	0.033	1.00	0.00
TER									
ATOM	1763	S1	LIG	107	10.591	11.998	-18.030	1.00	0.00
ATOM	1764	O1	LIG	107	12.162	11.834	-17.665	1.00	0.00
ATOM	1765	O2	LIG	107	10.451	10.650	-18.908	1.00	0.00
ATOM	1766	H26	LIG	107	10.869	10.778	-19.773	1.00	0.00
ATOM	1767	O3	LIG	107	9.781	11.805	-16.854	1.00	0.00
ATOM	1768	O4	LIG	107	10.423	13.156	-18.886	1.00	0.00
ATOM	1769	C1	LIG	107	18.546	13.754	-14.190	1.00	0.00
ATOM	1770	H1	LIG	107	18.635	12.730	-13.807	1.00	0.00
ATOM	1771	H2	LIG	107	19.067	13.763	-15.156	1.00	0.00
ATOM	1772	C2	LIG	107	19.251	14.718	-13.228	1.00	0.00
ATOM	1773	H3	LIG	107	18.731	14.709	-12.262	1.00	0.00
ATOM	1774	H4	LIG	107	19.161	15.742	-13.612	1.00	0.00
ATOM	1775	C3	LIG	107	17.066	14.084	-14.411	1.00	0.00
ATOM	1776	H5	LIG	107	16.976	15.108	-14.797	1.00	0.00
ATOM	1777	H6	LIG	107	16.546	14.077	-13.444	1.00	0.00
ATOM	1778	C4	LIG	107	20.732	14.390	-13.007	1.00	0.00
ATOM	1779	H7	LIG	107	21.253	14.400	-13.974	1.00	0.00

ATOM	1780	H8	LIG	107	20.823	13.366	-12.625	1.00	0.00
ATOM	1781	C5	LIG	107	16.359	13.119	-15.370	1.00	0.00
ATOM	1782	H9	LIG	107	16.880	13.123	-16.336	1.00	0.00
ATOM	1783	H10	LIG	107	16.445	12.096	-14.983	1.00	0.00
ATOM	1784	C6	LIG	107	21.437	15.353	-12.045	1.00	0.00
ATOM	1785	H11	LIG	107	20.916	15.344	-11.079	1.00	0.00
ATOM	1786	H12	LIG	107	21.347	16.378	-12.427	1.00	0.00
ATOM	1787	C7	LIG	107	14.880	13.453	-15.590	1.00	0.00
ATOM	1788	H13	LIG	107	14.361	13.451	-14.623	1.00	0.00
ATOM	1789	H14	LIG	107	14.796	14.475	-15.982	1.00	0.00
ATOM	1790	C8	LIG	107	22.918	15.026	-11.823	1.00	0.00
ATOM	1791	H15	LIG	107	23.010	14.001	-11.439	1.00	0.00
ATOM	1792	H16	LIG	107	23.439	15.035	-12.789	1.00	0.00
ATOM	1793	C9	LIG	107	14.183	12.477	-16.548	1.00	0.00
ATOM	1794	H17	LIG	107	14.244	11.457	-16.154	1.00	0.00
ATOM	1795	H18	LIG	107	14.690	12.478	-17.518	1.00	0.00
ATOM	1796	C10	LIG	107	23.624	15.988	-10.861	1.00	0.00
ATOM	1797	H19	LIG	107	23.103	15.979	-9.896	1.00	0.00
ATOM	1798	H20	LIG	107	23.534	17.012	-11.245	1.00	0.00
ATOM	1799	C11	LIG	107	12.724	12.836	-16.753	1.00	0.00
ATOM	1800	H21	LIG	107	12.163	12.799	-15.817	1.00	0.00
ATOM	1801	H22	LIG	107	12.609	13.822	-17.211	1.00	0.00

ATOM	1802	C12	LIG	107	25.103	15.653	-10.645	1.00	0.00
ATOM	1803	H23	LIG	107	25.658	15.687	-11.589	1.00	0.00
ATOM	1804	H24	LIG	107	25.577	16.358	-9.957	1.00	0.00
ATOM	1805	H25	LIG	107	25.224	14.648	-10.228	1.00	0.00
TER									
ATOM	1806	S1	LIG	108	3.172	-2.043	-20.546	1.00	0.00
ATOM	1807	O1	LIG	108	4.571	-2.177	-19.737	1.00	0.00
ATOM	1808	O2	LIG	108	2.833	-3.620	-20.618	1.00	0.00
ATOM	1809	H26	LIG	108	3.402	-4.047	-21.276	1.00	0.00
ATOM	1810	O3	LIG	108	2.164	-1.446	-19.706	1.00	0.00
ATOM	1811	O4	LIG	108	3.444	-1.542	-21.879	1.00	0.00
ATOM	1812	C1	LIG	108	10.599	0.505	-16.134	1.00	0.00
ATOM	1813	H1	LIG	108	10.361	-0.137	-15.276	1.00	0.00
ATOM	1814	H2	LIG	108	11.251	-0.089	-16.787	1.00	0.00
ATOM	1815	C2	LIG	108	11.365	1.740	-15.645	1.00	0.00
ATOM	1816	H3	LIG	108	10.713	2.334	-14.992	1.00	0.00
ATOM	1817	H4	LIG	108	11.602	2.383	-16.503	1.00	0.00
ATOM	1818	C3	LIG	108	9.306	0.845	-16.884	1.00	0.00
ATOM	1819	H5	LIG	108	9.544	1.485	-17.744	1.00	0.00
ATOM	1820	H6	LIG	108	8.655	1.441	-16.232	1.00	0.00
ATOM	1821	C4	LIG	108	12.659	1.403	-14.895	1.00	0.00
ATOM	1822	H7	LIG	108	13.311	0.809	-15.549	1.00	0.00

ATOM	1823	H8	LIG	108	12.422	0.759	-14.038	1.00	0.00
ATOM	1824	C5	LIG	108	8.538	-0.389	-17.371	1.00	0.00
ATOM	1825	H9	LIG	108	9.189	-0.988	-18.022	1.00	0.00
ATOM	1826	H10	LIG	108	8.297	-1.028	-16.512	1.00	0.00
ATOM	1827	C6	LIG	108	13.425	2.637	-14.405	1.00	0.00
ATOM	1828	H11	LIG	108	12.772	3.231	-13.752	1.00	0.00
ATOM	1829	H12	LIG	108	13.661	3.280	-15.263	1.00	0.00
ATOM	1830	C7	LIG	108	7.248	-0.046	-18.123	1.00	0.00
ATOM	1831	H13	LIG	108	6.599	0.554	-17.472	1.00	0.00
ATOM	1832	H14	LIG	108	7.491	0.589	-18.985	1.00	0.00
ATOM	1833	C8	LIG	108	14.718	2.301	-13.655	1.00	0.00
ATOM	1834	H15	LIG	108	14.483	1.658	-12.796	1.00	0.00
ATOM	1835	H16	LIG	108	15.371	1.706	-14.307	1.00	0.00
ATOM	1836	C9	LIG	108	6.486	-1.290	-18.600	1.00	0.00
ATOM	1837	H17	LIG	108	6.220	-1.919	-17.744	1.00	0.00
ATOM	1838	H18	LIG	108	7.123	-1.891	-19.256	1.00	0.00
ATOM	1839	C10	LIG	108	15.485	3.534	-13.164	1.00	0.00
ATOM	1840	H19	LIG	108	14.833	4.128	-12.513	1.00	0.00
ATOM	1841	H20	LIG	108	15.722	4.175	-14.022	1.00	0.00
ATOM	1842	C11	LIG	108	5.219	-0.921	-19.347	1.00	0.00
ATOM	1843	H21	LIG	108	4.525	-0.360	-18.715	1.00	0.00
ATOM	1844	H22	LIG	108	5.433	-0.347	-20.253	1.00	0.00

ATOM	1845	C12	LIG	108	16.775	3.187	-12.415	1.00	0.00
ATOM	1846	H23	LIG	108	17.463	2.622	-13.054	1.00	0.00
ATOM	1847	H24	LIG	108	17.298	4.087	-12.081	1.00	0.00
ATOM	1848	H25	LIG	108	16.568	2.576	-11.532	1.00	0.00
TER									
ATOM	1849	S1	LIG	109	-7.342	-0.059	-15.897	1.00	0.00
ATOM	1850	O1	LIG	109	-7.218	1.513	-16.275	1.00	0.00
ATOM	1851	O2	LIG	109	-8.445	-0.443	-17.012	1.00	0.00
ATOM	1852	H26	LIG	109	-9.313	-0.106	-16.742	1.00	0.00
ATOM	1853	O3	LIG	109	-6.134	-0.757	-16.261	1.00	0.00
ATOM	1854	O4	LIG	109	-7.922	-0.183	-14.575	1.00	0.00
ATOM	1855	C1	LIG	109	-4.267	8.404	-15.712	1.00	0.00
ATOM	1856	H1	LIG	109	-4.109	8.416	-16.797	1.00	0.00
ATOM	1857	H2	LIG	109	-5.270	8.818	-15.546	1.00	0.00
ATOM	1858	C2	LIG	109	-3.230	9.311	-15.039	1.00	0.00
ATOM	1859	H3	LIG	109	-2.227	8.899	-15.205	1.00	0.00
ATOM	1860	H4	LIG	109	-3.387	9.299	-13.953	1.00	0.00
ATOM	1861	C3	LIG	109	-4.228	6.956	-15.211	1.00	0.00
ATOM	1862	H5	LIG	109	-4.389	6.944	-14.125	1.00	0.00
ATOM	1863	H6	LIG	109	-3.224	6.544	-15.375	1.00	0.00
ATOM	1864	C4	LIG	109	-3.267	10.761	-15.538	1.00	0.00
ATOM	1865	H7	LIG	109	-4.271	11.175	-15.371	1.00	0.00



ATOM	1866	H8	LIG	109	-3.111	10.774	-16.624	1.00	0.00
ATOM	1867	C5	LIG	109	-5.263	6.048	-15.885	1.00	0.00
ATOM	1868	H9	LIG	109	-6.267	6.460	-15.724	1.00	0.00
ATOM	1869	H10	LIG	109	-5.101	6.056	-16.970	1.00	0.00
ATOM	1870	C6	LIG	109	-2.230	11.668	-14.867	1.00	0.00
ATOM	1871	H11	LIG	109	-1.227	11.255	-15.033	1.00	0.00
ATOM	1872	H12	LIG	109	-2.386	11.656	-13.780	1.00	0.00
ATOM	1873	C7	LIG	109	-5.224	4.601	-15.380	1.00	0.00
ATOM	1874	H13	LIG	109	-4.219	4.190	-15.539	1.00	0.00
ATOM	1875	H14	LIG	109	-5.391	4.593	-14.295	1.00	0.00
ATOM	1876	C8	LIG	109	-2.266	13.118	-15.365	1.00	0.00
ATOM	1877	H15	LIG	109	-2.109	13.132	-16.451	1.00	0.00
ATOM	1878	H16	LIG	109	-3.270	13.532	-15.199	1.00	0.00
ATOM	1879	C9	LIG	109	-6.260	3.701	-16.066	1.00	0.00
ATOM	1880	H17	LIG	109	-6.088	3.686	-17.147	1.00	0.00
ATOM	1881	H18	LIG	109	-7.267	4.099	-15.906	1.00	0.00
ATOM	1882	C10	LIG	109	-1.229	14.026	-14.694	1.00	0.00
ATOM	1883	H19	LIG	109	-0.228	13.612	-14.860	1.00	0.00
ATOM	1884	H20	LIG	109	-1.388	14.013	-13.609	1.00	0.00
ATOM	1885	C11	LIG	109	-6.204	2.279	-15.542	1.00	0.00
ATOM	1886	H21	LIG	109	-5.230	1.818	-15.726	1.00	0.00
ATOM	1887	H22	LIG	109	-6.438	2.229	-14.476	1.00	0.00

ATOM	1888	C12	LIG	109	-1.274	15.472	-15.199	1.00	0.00
ATOM	1889	H23	LIG	109	-2.254	15.924	-15.017	1.00	0.00
ATOM	1890	H24	LIG	109	-0.525	16.092	-14.701	1.00	0.00
ATOM	1891	H25	LIG	109	-1.084	15.521	-16.276	1.00	0.00
TER									
ATOM	1892	S1	LIG	110	-12.646	17.201	19.575	1.00	0.00
ATOM	1893	O1	LIG	110	-11.123	17.162	20.131	1.00	0.00
ATOM	1894	O2	LIG	110	-13.293	16.247	20.706	1.00	0.00
ATOM	1895	H26	LIG	110	-13.044	15.325	20.537	1.00	0.00
ATOM	1896	O3	LIG	110	-13.216	18.511	19.771	1.00	0.00
ATOM	1897	O4	LIG	110	-12.697	16.536	18.289	1.00	0.00
ATOM	1898	C1	LIG	110	-3.885	19.193	20.209	1.00	0.00
ATOM	1899	H1	LIG	110	-3.974	19.435	21.275	1.00	0.00
ATOM	1900	H2	LIG	110	-3.591	18.137	20.161	1.00	0.00
ATOM	1901	C2	LIG	110	-2.781	20.053	19.584	1.00	0.00
ATOM	1902	H3	LIG	110	-3.075	21.110	19.632	1.00	0.00
ATOM	1903	H4	LIG	110	-2.693	19.811	18.517	1.00	0.00
ATOM	1904	C3	LIG	110	-5.251	19.367	19.536	1.00	0.00
ATOM	1905	H5	LIG	110	-5.163	19.122	18.469	1.00	0.00
ATOM	1906	H6	LIG	110	-5.544	20.425	19.582	1.00	0.00
ATOM	1907	C4	LIG	110	-1.413	19.880	20.254	1.00	0.00
ATOM	1908	H7	LIG	110	-1.118	18.823	20.206	1.00	0.00

ATOM	1909	H8	LIG	110	-1.501	20.120	21.322	1.00	0.00
ATOM	1910	C5	LIG	110	-6.356	18.510	20.162	1.00	0.00
ATOM	1911	H9	LIG	110	-6.064	17.453	20.119	1.00	0.00
ATOM	1912	H10	LIG	110	-6.448	18.756	21.227	1.00	0.00
ATOM	1913	C6	LIG	110	-0.309	20.740	19.631	1.00	0.00
ATOM	1914	H11	LIG	110	-0.604	21.796	19.679	1.00	0.00
ATOM	1915	H12	LIG	110	-0.221	20.499	18.563	1.00	0.00
ATOM	1916	C7	LIG	110	-7.720	18.685	19.485	1.00	0.00
ATOM	1917	H13	LIG	110	-8.011	19.742	19.527	1.00	0.00
ATOM	1918	H14	LIG	110	-7.629	18.433	18.421	1.00	0.00
ATOM	1919	C8	LIG	110	1.059	20.567	20.301	1.00	0.00
ATOM	1920	H15	LIG	110	0.973	20.809	21.369	1.00	0.00
ATOM	1921	H16	LIG	110	1.354	19.510	20.254	1.00	0.00
ATOM	1922	C9	LIG	110	-8.819	17.825	20.124	1.00	0.00
ATOM	1923	H17	LIG	110	-8.931	18.085	21.182	1.00	0.00
ATOM	1924	H18	LIG	110	-8.540	16.767	20.080	1.00	0.00
ATOM	1925	C10	LIG	110	2.164	21.427	19.678	1.00	0.00
ATOM	1926	H19	LIG	110	1.868	22.483	19.726	1.00	0.00
ATOM	1927	H20	LIG	110	2.251	21.185	18.612	1.00	0.00
ATOM	1928	C11	LIG	110	-10.154	18.012	19.431	1.00	0.00
ATOM	1929	H21	LIG	110	-10.501	19.047	19.492	1.00	0.00
ATOM	1930	H22	LIG	110	-10.116	17.701	18.383	1.00	0.00

ATOM	1931	C12	LIG	110	3.526	21.248	20.355	1.00	0.00
ATOM	1932	H23	LIG	110	3.863	20.208	20.294	1.00	0.00
ATOM	1933	H24	LIG	110	4.291	21.872	19.887	1.00	0.00
ATOM	1934	H25	LIG	110	3.480	21.517	21.415	1.00	0.00
TER									
ATOM	1935	S1	LIG	111	-20.193	-8.510	3.035	1.00	0.00
ATOM	1936	O1	LIG	111	-20.335	-6.989	2.491	1.00	0.00
ATOM	1937	O2	LIG	111	-20.761	-9.246	1.713	1.00	0.00
ATOM	1938	H26	LIG	111	-21.723	-9.140	1.669	1.00	0.00
ATOM	1939	O3	LIG	111	-18.803	-8.876	3.140	1.00	0.00
ATOM	1940	O4	LIG	111	-21.116	-8.707	4.135	1.00	0.00
ATOM	1941	C1	LIG	111	-19.449	0.464	2.907	1.00	0.00
ATOM	1942	H1	LIG	111	-18.962	0.453	1.924	1.00	0.00
ATOM	1943	H2	LIG	111	-20.520	0.600	2.714	1.00	0.00
ATOM	1944	C2	LIG	111	-18.926	1.657	3.716	1.00	0.00
ATOM	1945	H3	LIG	111	-17.854	1.522	3.909	1.00	0.00
ATOM	1946	H4	LIG	111	-19.412	1.668	4.700	1.00	0.00
ATOM	1947	C3	LIG	111	-19.227	-0.887	3.596	1.00	0.00
ATOM	1948	H5	LIG	111	-19.715	-0.876	4.580	1.00	0.00
ATOM	1949	H6	LIG	111	-18.154	-1.021	3.791	1.00	0.00
ATOM	1950	C4	LIG	111	-19.148	3.010	3.029	1.00	0.00
ATOM	1951	H7	LIG	111	-20.221	3.146	2.837	1.00	0.00

ATOM	1952	H8	LIG	111	-18.663	2.999	2.044	1.00	0.00
ATOM	1953	C5	LIG	111	-19.746	-2.080	2.787	1.00	0.00
ATOM	1954	H9	LIG	111	-20.817	-1.946	2.589	1.00	0.00
ATOM	1955	H10	LIG	111	-19.255	-2.094	1.805	1.00	0.00
ATOM	1956	C6	LIG	111	-18.625	4.203	3.837	1.00	0.00
ATOM	1957	H11	LIG	111	-17.553	4.066	4.029	1.00	0.00
ATOM	1958	H12	LIG	111	-19.111	4.214	4.822	1.00	0.00
ATOM	1959	C7	LIG	111	-19.525	-3.429	3.480	1.00	0.00
ATOM	1960	H13	LIG	111	-18.454	-3.561	3.680	1.00	0.00
ATOM	1961	H14	LIG	111	-20.020	-3.416	4.459	1.00	0.00
ATOM	1962	C8	LIG	111	-18.847	5.555	3.150	1.00	0.00
ATOM	1963	H15	LIG	111	-18.361	5.546	2.165	1.00	0.00
ATOM	1964	H16	LIG	111	-19.919	5.691	2.957	1.00	0.00
ATOM	1965	C9	LIG	111	-20.044	-4.616	2.658	1.00	0.00
ATOM	1966	H17	LIG	111	-19.539	-4.648	1.686	1.00	0.00
ATOM	1967	H18	LIG	111	-21.114	-4.495	2.460	1.00	0.00
ATOM	1968	C10	LIG	111	-18.324	6.749	3.957	1.00	0.00
ATOM	1969	H19	LIG	111	-17.253	6.612	4.150	1.00	0.00
ATOM	1970	H20	LIG	111	-18.811	6.760	4.940	1.00	0.00
ATOM	1971	C11	LIG	111	-19.819	-5.935	3.370	1.00	0.00
ATOM	1972	H21	LIG	111	-18.757	-6.125	3.545	1.00	0.00
ATOM	1973	H22	LIG	111	-20.360	-5.982	4.319	1.00	0.00

ATOM	1974	C12	LIG	111	-18.550	8.095	3.262	1.00	0.00
ATOM	1975	H23	LIG	111	-19.615	8.276	3.086	1.00	0.00
ATOM	1976	H24	LIG	111	-18.168	8.925	3.864	1.00	0.00
ATOM	1977	H25	LIG	111	-18.045	8.129	2.292	1.00	0.00

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ATOM	1978	S1	LIG	112	13.262	31.030	-11.893	1.00	0.00
ATOM	1979	O1	LIG	112	13.926	29.581	-11.594	1.00	0.00
ATOM	1980	O2	LIG	112	12.336	30.570	-13.133	1.00	0.00
ATOM	1981	H26	LIG	112	12.885	30.438	-13.920	1.00	0.00
ATOM	1982	O3	LIG	112	12.365	31.398	-10.827	1.00	0.00
ATOM	1983	O4	LIG	112	14.293	31.934	-12.364	1.00	0.00
ATOM	1984	C1	LIG	112	18.174	24.747	-7.707	1.00	0.00
ATOM	1985	H1	LIG	112	17.321	24.060	-7.647	1.00	0.00
ATOM	1986	H2	LIG	112	18.712	24.484	-8.627	1.00	0.00
ATOM	1987	C2	LIG	112	19.094	24.520	-6.502	1.00	0.00
ATOM	1988	H3	LIG	112	18.556	24.783	-5.582	1.00	0.00
ATOM	1989	H4	LIG	112	19.947	25.208	-6.562	1.00	0.00
ATOM	1990	C3	LIG	112	17.656	26.186	-7.819	1.00	0.00
ATOM	1991	H5	LIG	112	18.510	26.874	-7.882	1.00	0.00
ATOM	1992	H6	LIG	112	17.121	26.450	-6.897	1.00	0.00
ATOM	1993	C4	LIG	112	19.613	23.082	-6.389	1.00	0.00
ATOM	1994	H7	LIG	112	20.152	22.819	-7.309	1.00	0.00

ATOM	1995	H8	LIG	112	18.761	22.393	-6.330	1.00	0.00
ATOM	1996	C5	LIG	112	16.734	26.413	-9.022	1.00	0.00
ATOM	1997	H9	LIG	112	17.268	26.148	-9.943	1.00	0.00
ATOM	1998	H10	LIG	112	15.879	25.729	-8.958	1.00	0.00
ATOM	1999	C6	LIG	112	20.532	22.853	-5.184	1.00	0.00
ATOM	2000	H11	LIG	112	19.994	23.117	-4.264	1.00	0.00
ATOM	2001	H12	LIG	112	21.386	23.542	-5.243	1.00	0.00
ATOM	2002	C7	LIG	112	16.221	27.853	-9.132	1.00	0.00
ATOM	2003	H13	LIG	112	15.689	28.119	-8.209	1.00	0.00
ATOM	2004	H14	LIG	112	17.077	28.537	-9.201	1.00	0.00
ATOM	2005	C8	LIG	112	21.052	21.416	-5.070	1.00	0.00
ATOM	2006	H15	LIG	112	20.200	20.726	-5.010	1.00	0.00
ATOM	2007	H16	LIG	112	21.590	21.152	-5.990	1.00	0.00
ATOM	2008	C9	LIG	112	15.295	28.067	-10.336	1.00	0.00
ATOM	2009	H17	LIG	112	14.426	27.403	-10.265	1.00	0.00
ATOM	2010	H18	LIG	112	15.819	27.811	-11.262	1.00	0.00
ATOM	2011	C10	LIG	112	21.972	21.186	-3.865	1.00	0.00
ATOM	2012	H19	LIG	112	21.434	21.451	-2.947	1.00	0.00
ATOM	2013	H20	LIG	112	22.824	21.875	-3.926	1.00	0.00
ATOM	2014	C11	LIG	112	14.808	29.500	-10.425	1.00	0.00
ATOM	2015	H21	LIG	112	14.232	29.788	-9.542	1.00	0.00
ATOM	2016	H22	LIG	112	15.635	30.202	-10.567	1.00	0.00

ATOM	2017	C12	LIG	112	22.485	19.747	-3.760	1.00	0.00
ATOM	2018	H23	LIG	112	23.056	19.465	-4.651	1.00	0.00
ATOM	2019	H24	LIG	112	23.138	19.618	-2.893	1.00	0.00
ATOM	2020	H25	LIG	112	21.657	19.038	-3.662	1.00	0.00
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ATOM	2021	S1	LIG	113	-15.876	-30.306	-8.692	1.00	0.00
ATOM	2022	O1	LIG	113	-15.670	-30.080	-10.285	1.00	0.00
ATOM	2023	O2	LIG	113	-16.648	-31.721	-8.792	1.00	0.00
ATOM	2024	H26	LIG	113	-17.559	-31.576	-9.090	1.00	0.00
ATOM	2025	O3	LIG	113	-14.610	-30.576	-8.058	1.00	0.00
ATOM	2026	O4	LIG	113	-16.779	-29.294	-8.183	1.00	0.00
ATOM	2027	C1	LIG	113	-13.022	-26.480	-16.329	1.00	0.00
ATOM	2028	H1	LIG	113	-12.587	-27.421	-16.689	1.00	0.00
ATOM	2029	H2	LIG	113	-14.037	-26.436	-16.745	1.00	0.00
ATOM	2030	C2	LIG	113	-12.203	-25.304	-16.873	1.00	0.00
ATOM	2031	H3	LIG	113	-11.188	-25.347	-16.458	1.00	0.00
ATOM	2032	H4	LIG	113	-12.637	-24.362	-16.513	1.00	0.00
ATOM	2033	C3	LIG	113	-13.104	-26.513	-14.799	1.00	0.00
ATOM	2034	H5	LIG	113	-13.541	-25.572	-14.440	1.00	0.00
ATOM	2035	H6	LIG	113	-12.088	-26.554	-14.384	1.00	0.00
ATOM	2036	C4	LIG	113	-12.120	-25.268	-18.404	1.00	0.00
ATOM	2037	H7	LIG	113	-13.136	-25.223	-18.820	1.00	0.00



ATOM	2038	H8	LIG	113	-11.687	-26.210	-18.764	1.00	0.00
ATOM	2039	C5	LIG	113	-13.920	-27.690	-14.255	1.00	0.00
ATOM	2040	H9	LIG	113	-14.935	-27.651	-14.671	1.00	0.00
ATOM	2041	H10	LIG	113	-13.481	-28.631	-14.610	1.00	0.00
ATOM	2042	C6	LIG	113	-11.301	-24.093	-18.948	1.00	0.00
ATOM	2043	H11	LIG	113	-10.286	-24.137	-18.532	1.00	0.00
ATOM	2044	H12	LIG	113	-11.735	-23.151	-18.588	1.00	0.00
ATOM	2045	C7	LIG	113	-14.002	-27.718	-12.725	1.00	0.00
ATOM	2046	H13	LIG	113	-12.987	-27.755	-12.309	1.00	0.00
ATOM	2047	H14	LIG	113	-14.446	-26.779	-12.370	1.00	0.00
ATOM	2048	C8	LIG	113	-11.218	-24.057	-20.478	1.00	0.00
ATOM	2049	H15	LIG	113	-10.783	-24.998	-20.840	1.00	0.00
ATOM	2050	H16	LIG	113	-12.233	-24.013	-20.895	1.00	0.00
ATOM	2051	C9	LIG	113	-14.817	-28.904	-12.192	1.00	0.00
ATOM	2052	H17	LIG	113	-14.369	-29.847	-12.523	1.00	0.00
ATOM	2053	H18	LIG	113	-15.834	-28.872	-12.596	1.00	0.00
ATOM	2054	C10	LIG	113	-10.398	-22.882	-21.024	1.00	0.00
ATOM	2055	H19	LIG	113	-9.385	-22.926	-20.607	1.00	0.00
ATOM	2056	H20	LIG	113	-10.834	-21.941	-20.664	1.00	0.00
ATOM	2057	C11	LIG	113	-14.888	-28.903	-10.677	1.00	0.00
ATOM	2058	H21	LIG	113	-13.896	-28.986	-10.226	1.00	0.00
ATOM	2059	H22	LIG	113	-15.391	-28.011	-10.295	1.00	0.00

ATOM	2060	C12	LIG	113	-10.321	-22.856	-22.553	1.00	0.00
ATOM	2061	H23	LIG	113	-11.319	-22.778	-22.998	1.00	0.00
ATOM	2062	H24	LIG	113	-9.732	-22.006	-22.909	1.00	0.00
ATOM	2063	H25	LIG	113	-9.858	-23.767	-22.942	1.00	0.00
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END									

**Table P:** The number of atoms present in the system of HA-Sum

ATOM	1	N	PRO	1	3.730	-5.775	11.978	1.00	0.00
ATOM	2	H2	PRO	1	4.217	-4.893	12.052	1.00	0.00
ATOM	3	H3	PRO	1	4.182	-6.627	12.276	1.00	0.00
ATOM	4	CD	PRO	1	2.464	-5.730	12.772	1.00	0.00
ATOM	5	HD2	PRO	1	2.398	-4.714	13.163	1.00	0.00
ATOM	6	HD3	PRO	1	2.609	-6.427	13.596	1.00	0.00
ATOM	7	CG	PRO	1	1.260	-6.103	11.894	1.00	0.00
ATOM	8	HG2	PRO	1	0.558	-5.269	11.869	1.00	0.00
ATOM	9	HG3	PRO	1	0.766	-6.980	12.311	1.00	0.00
ATOM	10	CB	PRO	1	1.820	-6.401	10.507	1.00	0.00
ATOM	11	HB2	PRO	1	1.269	-5.933	9.691	1.00	0.00
ATOM	12	HB3	PRO	1	1.840	-7.480	10.359	1.00	0.00
ATOM	13	CA	PRO	1	3.259	-5.849	10.551	1.00	0.00
ATOM	14	HA	PRO	1	3.852	-6.609	10.043	1.00	0.00

ATOM	15	C	PRO	1	3.399	-4.508	9.806	1.00	0.00
ATOM	16	O	PRO	1	2.427	-3.903	9.355	1.00	0.00
ATOM	17	N	TYR	2	4.643	-4.073	9.667	1.00	0.00
ATOM	18	H	TYR	2	5.405	-4.623	10.036	1.00	0.00
ATOM	19	CA	TYR	2	4.957	-2.821	9.001	1.00	0.00
ATOM	20	HA	TYR	2	4.081	-2.176	8.938	1.00	0.00
ATOM	21	CB	TYR	2	6.028	-2.112	9.833	1.00	0.00
ATOM	22	HB2	TYR	2	6.361	-1.218	9.304	1.00	0.00
ATOM	23	HB3	TYR	2	5.534	-1.822	10.760	1.00	0.00
ATOM	24	CG	TYR	2	7.231	-2.990	10.152	1.00	0.00
ATOM	25	CD1	TYR	2	7.218	-3.816	11.296	1.00	0.00
ATOM	26	HD1	TYR	2	6.352	-3.813	11.957	1.00	0.00
ATOM	27	CE1	TYR	2	8.321	-4.643	11.584	1.00	0.00
ATOM	28	HE1	TYR	2	8.337	-5.233	12.500	1.00	0.00
ATOM	29	CZ	TYR	2	9.444	-4.631	10.734	1.00	0.00
ATOM	30	OH	TYR	2	10.501	-5.451	10.968	1.00	0.00
ATOM	31	HH	TYR	2	10.382	-6.003	11.743	1.00	0.00
ATOM	32	CE2	TYR	2	9.436	-3.835	9.579	1.00	0.00
ATOM	33	HE2	TYR	2	10.297	-3.856	8.910	1.00	0.00
ATOM	34	CD2	TYR	2	8.334	-3.015	9.280	1.00	0.00
ATOM	35	HD2	TYR	2	8.338	-2.404	8.377	1.00	0.00
ATOM	36	C	TYR	2	5.476	-3.063	7.592	1.00	0.00

ATOM	37	O	TYR	2	5.267	-2.214	6.743	1.00	0.00
ATOM	38	N	GLY	3	6.063	-4.246	7.357	1.00	0.00
ATOM	39	H	GLY	3	6.103	-4.919	8.108	1.00	0.00
ATOM	40	CA	GLY	3	6.641	-4.606	6.083	1.00	0.00
ATOM	41	HA2	GLY	3	6.980	-5.641	6.124	1.00	0.00
ATOM	42	HA3	GLY	3	5.884	-4.502	5.305	1.00	0.00
ATOM	43	C	GLY	3	7.827	-3.709	5.744	1.00	0.00
ATOM	44	O	GLY	3	7.776	-2.484	5.748	1.00	0.00
ATOM	45	N	ARG	4	8.967	-4.337	5.494	1.00	0.00
ATOM	46	H	ARG	4	9.039	-5.332	5.646	1.00	0.00
ATOM	47	CA	ARG	4	10.166	-3.611	5.087	1.00	0.00
ATOM	48	HA	ARG	4	9.995	-2.535	5.141	1.00	0.00
ATOM	49	CB	ARG	4	11.322	-3.971	6.026	1.00	0.00
ATOM	50	HB2	ARG	4	10.933	-4.072	7.039	1.00	0.00
ATOM	51	HB3	ARG	4	11.753	-4.919	5.705	1.00	0.00
ATOM	52	CG	ARG	4	12.406	-2.883	6.001	1.00	0.00
ATOM	53	HG2	ARG	4	12.246	-2.245	5.131	1.00	0.00
ATOM	54	HG3	ARG	4	12.326	-2.285	6.908	1.00	0.00
ATOM	55	CD	ARG	4	13.800	-3.509	5.924	1.00	0.00
ATOM	56	HD2	ARG	4	13.957	-4.153	6.788	1.00	0.00
ATOM	57	HD3	ARG	4	13.883	-4.099	5.011	1.00	0.00
ATOM	58	NE	ARG	4	14.844	-2.474	5.912	1.00	0.00

ATOM	59	HE	ARG	4	14.527	-1.526	5.766	1.00	0.00
ATOM	60	CZ	ARG	4	16.137	-2.689	6.060	1.00	0.00
ATOM	61	NH1	ARG	4	16.593	-3.900	6.252	1.00	0.00
ATOM	62	HH11	ARG	4	15.951	-4.678	6.287	1.00	0.00
ATOM	63	HH12	ARG	4	17.586	-4.050	6.363	1.00	0.00
ATOM	64	NH2	ARG	4	16.985	-1.697	6.032	1.00	0.00
ATOM	65	HH21	ARG	4	16.650	-0.754	5.895	1.00	0.00
ATOM	66	HH22	ARG	4	17.972	-1.877	6.146	1.00	0.00
ATOM	67	C	ARG	4	10.522	-3.876	3.626	1.00	0.00
ATOM	68	O	ARG	4	11.606	-3.507	3.195	1.00	0.00
ATOM	69	N	GLY	5	9.681	-4.652	2.939	1.00	0.00
ATOM	70	H	GLY	5	8.841	-4.990	3.386	1.00	0.00
ATOM	71	CA	GLY	5	9.926	-5.030	1.569	1.00	0.00
ATOM	72	HA2	GLY	5	9.100	-5.643	1.208	1.00	0.00
ATOM	73	HA3	GLY	5	10.007	-4.133	0.954	1.00	0.00
ATOM	74	C	GLY	5	11.212	-5.821	1.458	1.00	0.00
ATOM	75	O	GLY	5	11.956	-5.637	0.510	1.00	0.00
ATOM	76	N	ARG	6	11.498	-6.664	2.458	1.00	0.00
ATOM	77	H	ARG	6	10.886	-6.678	3.261	1.00	0.00
ATOM	78	CA	ARG	6	12.690	-7.504	2.481	1.00	0.00
ATOM	79	HA	ARG	6	13.551	-6.928	2.142	1.00	0.00
ATOM	80	CB	ARG	6	12.968	-8.012	3.898	1.00	0.00

ATOM	81	HB2 ARG	6	13.732	-8.787	3.845	1.00	0.00
ATOM	82	HB3 ARG	6	13.336	-7.180	4.499	1.00	0.00
ATOM	83	CG ARG	6	11.694	-8.590	4.545	1.00	0.00
ATOM	84	HG2 ARG	6	11.244	-7.823	5.176	1.00	0.00
ATOM	85	HG3 ARG	6	10.995	-8.865	3.755	1.00	0.00
ATOM	86	CD ARG	6	12.018	-9.821	5.391	1.00	0.00
ATOM	87	HD2 ARG	6	13.096	-9.885	5.540	1.00	0.00
ATOM	88	HD3 ARG	6	11.522	-9.737	6.358	1.00	0.00
ATOM	89	NE ARG	6	11.559	-11.054	4.731	1.00	0.00
ATOM	90	HE ARG	6	11.307	-10.969	3.756	1.00	0.00
ATOM	91	CZ ARG	6	11.477	-12.241	5.302	1.00	0.00
ATOM	92	NH1 ARG	6	11.792	-12.396	6.564	1.00	0.00
ATOM	93	HH11 ARG	6	12.100	-11.601	7.105	1.00	0.00
ATOM	94	HH12 ARG	6	11.725	-13.309	6.989	1.00	0.00
ATOM	95	NH2 ARG	6	11.058	-13.273	4.624	1.00	0.00
ATOM	96	HH21 ARG	6	10.794	-13.163	3.655	1.00	0.00
ATOM	97	HH22 ARG	6	10.999	-14.176	5.070	1.00	0.00
ATOM	98	C ARG	6	12.589	-8.671	1.512	1.00	0.00
ATOM	99	O ARG	6	12.733	-9.813	1.946	1.00	0.00
ATOM	100	N THR	7	12.251	-8.403	0.267	1.00	0.00
ATOM	101	H THR	7	12.118	-7.434	0.013	1.00	0.00
ATOM	102	CA THR	7	11.996	-9.417	-0.735	1.00	0.00

ATOM	103	HA	THR	7	12.660	-10.260	-0.543	1.00	0.00
ATOM	104	CB	THR	7	10.537	-9.899	-0.608	1.00	0.00
ATOM	105	HB	THR	7	10.270	-10.440	-1.516	1.00	0.00
ATOM	106	CG2	THR	7	10.356	-10.819	0.608	1.00	0.00
ATOM	107	HG21	THR	7	10.622	-10.278	1.516	1.00	0.00
ATOM	108	HG22	THR	7	9.317	-11.141	0.668	1.00	0.00
ATOM	109	HG23	THR	7	11.001	-11.691	0.503	1.00	0.00
ATOM	110	OG1	THR	7	9.664	-8.800	-0.393	1.00	0.00
ATOM	111	HG1	THR	7	8.762	-9.118	-0.317	1.00	0.00
ATOM	112	C	THR	7	12.295	-8.861	-2.112	1.00	0.00
ATOM	113	O	THR	7	12.761	-7.733	-2.231	1.00	0.00
ATOM	114	N	GLU	8	12.052	-9.665	-3.137	1.00	0.00
ATOM	115	H	GLU	8	11.756	-10.614	-2.964	1.00	0.00
ATOM	116	CA	GLU	8	12.274	-9.252	-4.516	1.00	0.00
ATOM	117	HA	GLU	8	12.860	-8.333	-4.546	1.00	0.00
ATOM	118	CB	GLU	8	13.045	-10.349	-5.261	1.00	0.00
ATOM	119	HB2	GLU	8	12.590	-11.314	-5.039	1.00	0.00
ATOM	120	HB3	GLU	8	12.985	-10.158	-6.333	1.00	0.00
ATOM	121	CG	GLU	8	14.514	-10.365	-4.827	1.00	0.00
ATOM	122	HG2	GLU	8	14.642	-9.817	-3.894	1.00	0.00
ATOM	123	HG3	GLU	8	14.789	-11.409	-4.676	1.00	0.00
ATOM	124	CD	GLU	8	15.411	-9.753	-5.904	1.00	0.00

ATOM	125	OE1	GLU	8	15.717	-10.484	-6.873	1.00	0.00
ATOM	126	OE2	GLU	8	15.743	-8.555	-5.768	1.00	0.00
ATOM	127	C	GLU	8	10.952	-8.923	-5.208	1.00	0.00
ATOM	128	O	GLU	8	9.873	-8.921	-4.596	1.00	0.00
ATOM	129	N	SER	9	11.042	-8.605	-6.495	1.00	0.00
ATOM	130	H	SER	9	11.957	-8.490	-6.907	1.00	0.00
ATOM	131	CA	SER	9	9.879	-8.336	-7.319	1.00	0.00
ATOM	132	HA	SER	9	9.257	-7.585	-6.832	1.00	0.00
ATOM	133	CB	SER	9	10.283	-7.813	-8.706	1.00	0.00
ATOM	134	HB2	SER	9	9.672	-8.324	-9.450	1.00	0.00
ATOM	135	HB3	SER	9	10.074	-6.743	-8.737	1.00	0.00
ATOM	136	OG	SER	9	11.650	-8.033	-8.989	1.00	0.00
ATOM	137	HG	SER	9	11.855	-7.691	-9.863	1.00	0.00
ATOM	138	C	SER	9	8.985	-9.574	-7.458	1.00	0.00
ATOM	139	O	SER	9	9.337	-10.693	-7.089	1.00	0.00
ATOM	140	N	GLY	10	7.791	-9.381	-8.015	1.00	0.00
ATOM	141	H	GLY	10	7.503	-8.451	-8.287	1.00	0.00
ATOM	142	CA	GLY	10	6.869	-10.487	-8.250	1.00	0.00
ATOM	143	HA2	GLY	10	7.002	-10.851	-9.269	1.00	0.00
ATOM	144	HA3	GLY	10	7.089	-11.289	-7.546	1.00	0.00
ATOM	145	C	GLY	10	5.441	-10.054	-8.068	1.00	0.00
ATOM	146	O	GLY	10	4.851	-9.488	-8.978	1.00	0.00



ATOM	147	N	CYX	11	4.936	-10.157	-6.838	1.00	0.00
ATOM	148	H	CYX	11	5.463	-10.623	-6.113	1.00	0.00
ATOM	149	CA	CYX	11	3.611	-9.684	-6.524	1.00	0.00
ATOM	150	HA	CYX	11	2.893	-10.093	-7.235	1.00	0.00
ATOM	151	CB	CYX	11	3.213	-10.121	-5.124	1.00	0.00
ATOM	152	HB2	CYX	11	3.831	-9.601	-4.392	1.00	0.00
ATOM	153	HB3	CYX	11	2.164	-9.879	-4.952	1.00	0.00
ATOM	154	SG	CYX	11	3.329	-11.879	-4.771	1.00	0.00
ATOM	155	C	CYX	11	3.511	-8.160	-6.669	1.00	0.00
ATOM	156	O	CYX	11	2.424	-7.599	-6.639	1.00	0.00
ATOM	157	N	TYR	12	4.654	-7.493	-6.760	1.00	0.00
ATOM	158	H	TYR	12	5.506	-8.030	-6.684	1.00	0.00
ATOM	159	CA	TYR	12	4.759	-6.075	-6.979	1.00	0.00
ATOM	160	HA	TYR	12	4.013	-5.520	-6.410	1.00	0.00
ATOM	161	CB	TYR	12	6.142	-5.670	-6.492	1.00	0.00
ATOM	162	HB2	TYR	12	6.219	-6.000	-5.456	1.00	0.00
ATOM	163	HB3	TYR	12	6.879	-6.198	-7.097	1.00	0.00
ATOM	164	CG	TYR	12	6.401	-4.188	-6.567	1.00	0.00
ATOM	165	CD1	TYR	12	5.579	-3.296	-5.859	1.00	0.00
ATOM	166	HD1	TYR	12	4.753	-3.682	-5.263	1.00	0.00
ATOM	167	CE1	TYR	12	5.817	-1.912	-5.917	1.00	0.00
ATOM	168	HE1	TYR	12	5.152	-1.221	-5.400	1.00	0.00

ATOM	169	CZ	TYR	12	6.867	-1.416	-6.709	1.00	0.00
ATOM	170	OH	TYR	12	7.132	-0.082	-6.725	1.00	0.00
ATOM	171	HH	TYR	12	6.543	0.425	-6.162	1.00	0.00
ATOM	172	CE2	TYR	12	7.693	-2.311	-7.422	1.00	0.00
ATOM	173	HE2	TYR	12	8.518	-1.928	-8.024	1.00	0.00
ATOM	174	CD2	TYR	12	7.453	-3.696	-7.357	1.00	0.00
ATOM	175	HD2	TYR	12	8.083	-4.385	-7.920	1.00	0.00
ATOM	176	C	TYR	12	4.626	-5.709	-8.452	1.00	0.00
ATOM	177	O	TYR	12	3.963	-4.747	-8.790	1.00	0.00
ATOM	178	N	GLN	13	5.241	-6.499	-9.325	1.00	0.00
ATOM	179	H	GLN	13	5.785	-7.289	-9.010	1.00	0.00
ATOM	180	CA	GLN	13	5.170	-6.238	-10.747	1.00	0.00
ATOM	181	HA	GLN	13	5.540	-5.236	-10.968	1.00	0.00
ATOM	182	CB	GLN	13	6.035	-7.253	-11.493	1.00	0.00
ATOM	183	HB2	GLN	13	7.085	-7.042	-11.290	1.00	0.00
ATOM	184	HB3	GLN	13	5.791	-8.255	-11.141	1.00	0.00
ATOM	185	CG	GLN	13	5.780	-7.166	-13.003	1.00	0.00
ATOM	186	HG2	GLN	13	4.744	-7.418	-13.229	1.00	0.00
ATOM	187	HG3	GLN	13	5.976	-6.136	-13.302	1.00	0.00
ATOM	188	CD	GLN	13	6.686	-8.082	-13.801	1.00	0.00
ATOM	189	OE1	GLN	13	7.657	-8.642	-13.313	1.00	0.00
ATOM	190	NE2	GLN	13	6.364	-8.295	-15.056	1.00	0.00

ATOM	191	HE21	GLN	13	6.939	-8.898	-15.627	1.00	0.00
ATOM	192	HE22	GLN	13	5.543	-7.854	-15.446	1.00	0.00
ATOM	193	C	GLN	13	3.723	-6.332	-11.214	1.00	0.00
ATOM	194	O	GLN	13	3.254	-5.542	-11.996	1.00	0.00
ATOM	195	N	GLN	14	2.996	-7.342	-10.754	1.00	0.00
ATOM	196	H	GLN	14	3.421	-8.057	-10.182	1.00	0.00
ATOM	197	CA	GLN	14	1.595	-7.487	-11.112	1.00	0.00
ATOM	198	HA	GLN	14	1.478	-7.399	-12.193	1.00	0.00
ATOM	199	CB	GLN	14	1.071	-8.856	-10.673	1.00	0.00
ATOM	200	HB2	GLN	14	-0.018	-8.818	-10.652	1.00	0.00
ATOM	201	HB3	GLN	14	1.394	-9.599	-11.402	1.00	0.00
ATOM	202	CG	GLN	14	1.593	-9.238	-9.293	1.00	0.00
ATOM	203	HG2	GLN	14	2.516	-9.797	-9.446	1.00	0.00
ATOM	204	HG3	GLN	14	1.810	-8.324	-8.740	1.00	0.00
ATOM	205	CD	GLN	14	0.655	-10.075	-8.484	1.00	0.00
ATOM	206	OE1	GLN	14	-0.102	-10.832	-9.037	1.00	0.00
ATOM	207	NE2	GLN	14	0.689	-9.926	-7.167	1.00	0.00
ATOM	208	HE21	GLN	14	0.072	-10.472	-6.584	1.00	0.00
ATOM	209	HE22	GLN	14	1.332	-9.266	-6.753	1.00	0.00
ATOM	210	C	GLN	14	0.740	-6.377	-10.511	1.00	0.00
ATOM	211	O	GLN	14	-0.279	-6.020	-11.071	1.00	0.00
ATOM	212	N	MET	15	1.134	-5.869	-9.349	1.00	0.00

ATOM	213	H	MET	15	1.975	-6.246	-8.937	1.00	0.00
ATOM	214	CA	MET	15	0.456	-4.804	-8.662	1.00	0.00
ATOM	215	HA	MET	15	-0.517	-5.154	-8.320	1.00	0.00
ATOM	216	CB	MET	15	1.252	-4.334	-7.461	1.00	0.00
ATOM	217	HB2	MET	15	2.181	-4.902	-7.416	1.00	0.00
ATOM	218	HB3	MET	15	1.481	-3.275	-7.589	1.00	0.00
ATOM	219	CG	MET	15	0.483	-4.530	-6.187	1.00	0.00
ATOM	220	HG2	MET	15	-0.526	-4.135	-6.304	1.00	0.00
ATOM	221	HG3	MET	15	0.432	-5.592	-5.950	1.00	0.00
ATOM	222	SD	MET	15	1.303	-3.665	-4.847	1.00	0.00
ATOM	223	CE	MET	15	2.142	-5.043	-4.114	1.00	0.00
ATOM	224	HE1	MET	15	2.816	-5.489	-4.845	1.00	0.00
ATOM	225	HE2	MET	15	2.716	-4.703	-3.252	1.00	0.00
ATOM	226	HE3	MET	15	1.411	-5.785	-3.794	1.00	0.00
ATOM	227	C	MET	15	0.282	-3.615	-9.562	1.00	0.00
ATOM	228	O	MET	15	-0.820	-3.118	-9.614	1.00	0.00
ATOM	229	N	GLU	16	1.334	-3.141	-10.221	1.00	0.00
ATOM	230	H	GLU	16	2.245	-3.543	-10.051	1.00	0.00
ATOM	231	CA	GLU	16	1.236	-2.015	-11.146	1.00	0.00
ATOM	232	HA	GLU	16	0.981	-1.103	-10.607	1.00	0.00
ATOM	233	CB	GLU	16	2.588	-1.809	-11.846	1.00	0.00
ATOM	234	HB2	GLU	16	2.689	-0.751	-12.092	1.00	0.00

ATOM	235	HB3	GLU	16	3.380	-2.098	-11.155	1.00	0.00
ATOM	236	CG	GLU	16	2.699	-2.645	-13.130	1.00	0.00
ATOM	237	HG2	GLU	16	2.325	-3.629	-12.850	1.00	0.00
ATOM	238	HG3	GLU	16	2.080	-2.236	-13.929	1.00	0.00
ATOM	239	CD	GLU	16	4.141	-2.768	-13.616	1.00	0.00
ATOM	240	OE1	GLU	16	4.984	-3.335	-12.879	1.00	0.00
ATOM	241	OE2	GLU	16	4.441	-2.222	-14.698	1.00	0.00
ATOM	242	C	GLU	16	0.120	-2.233	-12.177	1.00	0.00
ATOM	243	O	GLU	16	-0.563	-1.288	-12.562	1.00	0.00
ATOM	244	N	GLU	17	-0.094	-3.498	-12.555	1.00	0.00
ATOM	245	H	GLU	17	0.486	-4.231	-12.174	1.00	0.00
ATOM	246	CA	GLU	17	-1.107	-3.857	-13.515	1.00	0.00
ATOM	247	HA	GLU	17	-1.110	-3.139	-14.336	1.00	0.00
ATOM	248	CB	GLU	17	-0.830	-5.254	-14.086	1.00	0.00
ATOM	249	HB2	GLU	17	0.205	-5.530	-13.884	1.00	0.00
ATOM	250	HB3	GLU	17	-1.497	-5.977	-13.618	1.00	0.00
ATOM	251	CG	GLU	17	-1.069	-5.245	-15.599	1.00	0.00
ATOM	252	HG2	GLU	17	-1.659	-6.121	-15.867	1.00	0.00
ATOM	253	HG3	GLU	17	-1.622	-4.342	-15.859	1.00	0.00
ATOM	254	CD	GLU	17	0.256	-5.269	-16.365	1.00	0.00
ATOM	255	OE1	GLU	17	1.144	-4.465	-16.030	1.00	0.00
ATOM	256	OE2	GLU	17	0.367	-6.105	-17.289	1.00	0.00

ATOM	257	C	GLU	17	-2.481	-3.827	-12.854	1.00	0.00
ATOM	258	O	GLU	17	-3.494	-3.588	-13.511	1.00	0.00
ATOM	259	N	ALA	18	-2.541	-4.088	-11.550	1.00	0.00
ATOM	260	H	ALA	18	-1.699	-4.402	-11.089	1.00	0.00
ATOM	261	CA	ALA	18	-3.753	-4.026	-10.785	1.00	0.00
ATOM	262	HA	ALA	18	-4.597	-3.673	-11.378	1.00	0.00
ATOM	263	CB	ALA	18	-4.055	-5.438	-10.298	1.00	0.00
ATOM	264	HB1	ALA	18	-3.222	-5.800	-9.696	1.00	0.00
ATOM	265	HB2	ALA	18	-4.963	-5.428	-9.695	1.00	0.00
ATOM	266	HB3	ALA	18	-4.196	-6.096	-11.156	1.00	0.00
ATOM	267	C	ALA	18	-3.584	-3.015	-9.676	1.00	0.00
ATOM	268	O	ALA	18	-3.490	-3.415	-8.529	1.00	0.00
ATOM	269	N	GLU	19	-3.465	-1.726	-9.969	1.00	0.00
ATOM	270	H	GLU	19	-3.410	-1.470	-10.945	1.00	0.00
ATOM	271	CA	GLU	19	-3.294	-0.681	-8.972	1.00	0.00
ATOM	272	HA	GLU	19	-2.499	-0.953	-8.279	1.00	0.00
ATOM	273	CB	GLU	19	-2.918	0.638	-9.653	1.00	0.00
ATOM	274	HB2	GLU	19	-1.871	0.589	-9.954	1.00	0.00
ATOM	275	HB3	GLU	19	-3.543	0.764	-10.537	1.00	0.00
ATOM	276	CG	GLU	19	-3.121	1.820	-8.716	1.00	0.00
ATOM	277	HG2	GLU	19	-3.311	1.546	-7.679	1.00	0.00
ATOM	278	HG3	GLU	19	-2.185	2.376	-8.780	1.00	0.00

ATOM	279	CD	GLU	19	-4.293	2.711	-9.242	1.00	0.00
ATOM	280	OE1	GLU	19	-5.275	2.322	-9.919	1.00	0.00
ATOM	281	OE2	GLU	19	-4.316	3.889	-8.868	1.00	0.00
ATOM	282	C	GLU	19	-4.593	-0.620	-8.119	1.00	0.00
ATOM	283	O	GLU	19	-5.435	0.271	-8.102	1.00	0.00
ATOM	284	N	MET	20	-4.817	-1.576	-7.263	1.00	0.00
ATOM	285	H	MET	20	-4.148	-2.327	-7.170	1.00	0.00
ATOM	286	CA	MET	20	-6.009	-1.617	-6.453	1.00	0.00
ATOM	287	HA	MET	20	-6.789	-0.986	-6.881	1.00	0.00
ATOM	288	CB	MET	20	-6.510	-3.041	-6.408	1.00	0.00
ATOM	289	HB2	MET	20	-7.580	-3.003	-6.204	1.00	0.00
ATOM	290	HB3	MET	20	-6.343	-3.476	-7.394	1.00	0.00
ATOM	291	CG	MET	20	-5.830	-3.886	-5.365	1.00	0.00
ATOM	292	HG2	MET	20	-4.844	-3.450	-5.201	1.00	0.00
ATOM	293	HG3	MET	20	-6.422	-3.798	-4.454	1.00	0.00
ATOM	294	SD	MET	20	-5.649	-5.593	-5.777	1.00	0.00
ATOM	295	CE	MET	20	-4.380	-5.511	-6.998	1.00	0.00
ATOM	296	HE1	MET	20	-3.483	-5.071	-6.562	1.00	0.00
ATOM	297	HE2	MET	20	-4.154	-6.515	-7.357	1.00	0.00
ATOM	298	HE3	MET	20	-4.717	-4.895	-7.833	1.00	0.00
ATOM	299	C	MET	20	-5.662	-1.109	-5.082	1.00	0.00
ATOM	300	O	MET	20	-6.556	-0.774	-4.306	1.00	0.00

ATOM	301	N	LEU	21	-4.362	-1.089	-4.765	1.00	0.00
ATOM	302	H	LEU	21	-3.690	-1.470	-5.416	1.00	0.00
ATOM	303	CA	LEU	21	-3.890	-0.648	-3.476	1.00	0.00
ATOM	304	HA	LEU	21	-4.641	-0.845	-2.712	1.00	0.00
ATOM	305	CB	LEU	21	-2.620	-1.400	-3.115	1.00	0.00
ATOM	306	HB2	LEU	21	-1.953	-1.044	-3.901	1.00	0.00
ATOM	307	HB3	LEU	21	-2.235	-1.089	-2.144	1.00	0.00
ATOM	308	CG	LEU	21	-2.700	-2.939	-3.167	1.00	0.00
ATOM	309	HG	LEU	21	-1.932	-3.327	-2.498	1.00	0.00
ATOM	310	CD1	LEU	21	-4.052	-3.493	-2.761	1.00	0.00
ATOM	311	HD11	LEU	21	-4.820	-3.105	-3.431	1.00	0.00
ATOM	312	HD12	LEU	21	-4.032	-4.581	-2.823	1.00	0.00
ATOM	313	HD13	LEU	21	-4.277	-3.191	-1.739	1.00	0.00
ATOM	314	CD2	LEU	21	-2.250	-3.428	-4.531	1.00	0.00
ATOM	315	HD21	LEU	21	-1.222	-3.113	-4.710	1.00	0.00
ATOM	316	HD22	LEU	21	-2.307	-4.516	-4.565	1.00	0.00
ATOM	317	HD23	LEU	21	-2.897	-3.006	-5.301	1.00	0.00
ATOM	318	C	LEU	21	-3.726	0.860	-3.480	1.00	0.00
ATOM	319	O	LEU	21	-3.154	1.428	-2.563	1.00	0.00
ATOM	320	N	ASN	22	-4.300	1.503	-4.495	1.00	0.00
ATOM	321	H	ASN	22	-4.797	0.977	-5.200	1.00	0.00
ATOM	322	CA	ASN	22	-4.271	2.935	-4.608	1.00	0.00



ATOM	323	HA	ASN	22	-3.480	3.343	-3.979	1.00	0.00
ATOM	324	CB	ASN	22	-4.005	3.339	-6.041	1.00	0.00
ATOM	325	HB2	ASN	22	-3.059	3.078	-6.515	1.00	0.00
ATOM	326	HB3	ASN	22	-4.809	2.760	-6.494	1.00	0.00
ATOM	327	CG	ASN	22	-4.278	4.822	-6.281	1.00	0.00
ATOM	328	OD1	ASN	22	-5.365	5.257	-6.645	1.00	0.00
ATOM	329	ND2	ASN	22	-3.370	5.635	-5.791	1.00	0.00
ATOM	330	HD21	ASN	22	-3.475	6.633	-5.907	1.00	0.00
ATOM	331	HD22	ASN	22	-2.571	5.259	-5.302	1.00	0.00
ATOM	332	C	ASN	22	-5.616	3.497	-4.214	1.00	0.00
ATOM	333	O	ASN	22	-5.670	4.514	-3.551	1.00	0.00
ATOM	334	N	HIE	23	-6.714	2.820	-4.562	1.00	0.00
ATOM	335	H	HIE	23	-6.614	1.966	-5.091	1.00	0.00
ATOM	336	CA	HIE	23	-8.050	3.282	-4.249	1.00	0.00
ATOM	337	HA	HIE	23	-8.156	4.336	-4.508	1.00	0.00
ATOM	338	CB	HIE	23	-9.066	2.479	-5.052	1.00	0.00
ATOM	339	HB2	HIE	23	-8.893	1.410	-4.934	1.00	0.00
ATOM	340	HB3	HIE	23	-10.073	2.724	-4.714	1.00	0.00
ATOM	341	CG	HIE	23	-9.029	2.760	-6.527	1.00	0.00
ATOM	342	ND1	HIE	23	-9.988	3.475	-7.218	1.00	0.00
ATOM	343	CE1	HIE	23	-9.619	3.509	-8.519	1.00	0.00
ATOM	344	HE1	HIE	23	-10.240	4.032	-9.246	1.00	0.00

ATOM	345	NE2 HIE	23	-8.455	2.830	-8.669	1.00	0.00
ATOM	346	HE2 HIE	23	-7.942	2.686	-9.528	1.00	0.00
ATOM	347	CD2 HIE	23	-8.073	2.356	-7.427	1.00	0.00
ATOM	348	HD2 HIE	23	-7.154	1.779	-7.323	1.00	0.00
ATOM	349	C HIE	23	-8.292	3.139	-2.760	1.00	0.00
ATOM	350	O HIE	23	-8.549	4.146	-2.105	1.00	0.00
ATOM	351	N CYX	24	-8.224	1.901	-2.246	1.00	0.00
ATOM	352	H CYX	24	-8.094	1.104	-2.853	1.00	0.00
ATOM	353	CA CYX	24	-8.367	1.664	-0.815	1.00	0.00
ATOM	354	HA CYX	24	-9.366	1.962	-0.497	1.00	0.00
ATOM	355	CB CYX	24	-8.165	0.190	-0.474	1.00	0.00
ATOM	356	HB2 CYX	24	-7.755	-0.330	-1.340	1.00	0.00
ATOM	357	HB3 CYX	24	-7.473	0.102	0.363	1.00	0.00
ATOM	358	SG CYX	24	-9.664	-0.679	-0.012	1.00	0.00
ATOM	359	C CYX	24	-7.358	2.507	-0.047	1.00	0.00
ATOM	360	O CYX	24	-7.682	2.940	1.037	1.00	0.00
ATOM	361	N GLY	25	-6.215	2.834	-0.653	1.00	0.00
ATOM	362	H GLY	25	-6.044	2.461	-1.576	1.00	0.00
ATOM	363	CA GLY	25	-5.216	3.686	-0.066	1.00	0.00
ATOM	364	HA2 GLY	25	-5.026	3.357	0.955	1.00	0.00
ATOM	365	HA3 GLY	25	-4.298	3.608	-0.649	1.00	0.00
ATOM	366	C GLY	25	-5.661	5.127	-0.042	1.00	0.00

ATOM	367	O	GLY	25	-5.625	5.740	1.008	1.00	0.00
ATOM	368	N	MET	26	-6.200	5.645	-1.137	1.00	0.00
ATOM	369	H	MET	26	-6.331	5.019	-1.919	1.00	0.00
ATOM	370	CA	MET	26	-6.645	7.009	-1.272	1.00	0.00
ATOM	371	HA	MET	26	-5.794	7.684	-1.172	1.00	0.00
ATOM	372	CB	MET	26	-7.290	7.237	-2.636	1.00	0.00
ATOM	373	HB2	MET	26	-7.222	6.316	-3.214	1.00	0.00
ATOM	374	HB3	MET	26	-8.338	7.497	-2.489	1.00	0.00
ATOM	375	CG	MET	26	-6.591	8.359	-3.388	1.00	0.00
ATOM	376	HG2	MET	26	-7.201	9.262	-3.341	1.00	0.00
ATOM	377	HG3	MET	26	-5.621	8.552	-2.930	1.00	0.00
ATOM	378	SD	MET	26	-6.350	7.899	-5.110	1.00	0.00
ATOM	379	CE	MET	26	-5.014	9.034	-5.540	1.00	0.00
ATOM	380	HE1	MET	26	-4.152	8.840	-4.902	1.00	0.00
ATOM	381	HE2	MET	26	-4.733	8.888	-6.583	1.00	0.00
ATOM	382	HE3	MET	26	-5.348	10.062	-5.396	1.00	0.00
ATOM	383	C	MET	26	-7.691	7.314	-0.245	1.00	0.00
ATOM	384	O	MET	26	-7.610	8.357	0.359	1.00	0.00
ATOM	385	N	TYR	27	-8.699	6.466	-0.079	1.00	0.00
ATOM	386	H	TYR	27	-8.751	5.661	-0.686	1.00	0.00
ATOM	387	CA	TYR	27	-9.724	6.630	0.940	1.00	0.00
ATOM	388	HA	TYR	27	-10.444	7.402	0.667	1.00	0.00

ATOM	389	CB	TYR	27	-10.454	5.295	1.039	1.00	0.00
ATOM	390	HB2	TYR	27	-10.889	5.104	0.058	1.00	0.00
ATOM	391	HB3	TYR	27	-9.711	4.529	1.262	1.00	0.00
ATOM	392	CG	TYR	27	-11.542	5.262	2.087	1.00	0.00
ATOM	393	CD1	TYR	27	-12.691	6.053	1.920	1.00	0.00
ATOM	394	HD1	TYR	27	-12.796	6.685	1.037	1.00	0.00
ATOM	395	CE1	TYR	27	-13.707	6.030	2.893	1.00	0.00
ATOM	396	HE1	TYR	27	-14.610	6.624	2.753	1.00	0.00
ATOM	397	CZ	TYR	27	-13.572	5.207	4.031	1.00	0.00
ATOM	398	OH	TYR	27	-14.536	5.193	4.990	1.00	0.00
ATOM	399	HH	TYR	27	-15.268	5.782	4.794	1.00	0.00
ATOM	400	CE2	TYR	27	-12.417	4.423	4.199	1.00	0.00
ATOM	401	HE2	TYR	27	-12.312	3.792	5.081	1.00	0.00
ATOM	402	CD2	TYR	27	-11.398	4.453	3.230	1.00	0.00
ATOM	403	HD2	TYR	27	-10.499	3.851	3.365	1.00	0.00
ATOM	404	C	TYR	27	-9.147	6.979	2.308	1.00	0.00
ATOM	405	O	TYR	27	-9.687	7.817	3.022	1.00	0.00
ATOM	406	N	LEU	28	-7.991	6.402	2.617	1.00	0.00
ATOM	407	H	LEU	28	-7.590	5.740	1.968	1.00	0.00
ATOM	408	CA	LEU	28	-7.311	6.631	3.869	1.00	0.00
ATOM	409	HA	LEU	28	-8.033	6.928	4.630	1.00	0.00
ATOM	410	CB	LEU	28	-6.603	5.368	4.336	1.00	0.00

ATOM	411	HB2 LEU	28	-5.650	5.435	3.810	1.00	0.00
ATOM	412	HB3 LEU	28	-6.428	5.410	5.411	1.00	0.00
ATOM	413	CG LEU	28	-7.294	4.039	3.980	1.00	0.00
ATOM	414	HG LEU	28	-7.994	4.222	3.164	1.00	0.00
ATOM	415	CD1 LEU	28	-6.287	2.982	3.556	1.00	0.00
ATOM	416	HD11 LEU	28	-5.587	2.799	4.371	1.00	0.00
ATOM	417	HD12 LEU	28	-6.810	2.058	3.312	1.00	0.00
ATOM	418	HD13 LEU	28	-5.740	3.331	2.680	1.00	0.00
ATOM	419	CD2 LEU	28	-8.157	3.566	5.112	1.00	0.00
ATOM	420	HD21 LEU	28	-8.922	4.314	5.323	1.00	0.00
ATOM	421	HD22 LEU	28	-8.635	2.626	4.837	1.00	0.00
ATOM	422	HD23 LEU	28	-7.542	3.415	5.999	1.00	0.00
ATOM	423	C LEU	28	-6.334	7.784	3.711	1.00	0.00
ATOM	424	O LEU	28	-6.118	8.518	4.658	1.00	0.00
ATOM	425	N MET	29	-5.844	8.042	2.502	1.00	0.00
ATOM	426	H MET	29	-6.036	7.335	1.807	1.00	0.00
ATOM	427	CA MET	29	-5.006	9.157	2.129	1.00	0.00
ATOM	428	HA MET	29	-4.364	9.444	2.962	1.00	0.00
ATOM	429	CB MET	29	-4.125	8.759	0.950	1.00	0.00
ATOM	430	HB2 MET	29	-4.327	7.718	0.698	1.00	0.00
ATOM	431	HB3 MET	29	-4.373	9.393	0.098	1.00	0.00
ATOM	432	CG MET	29	-2.654	8.921	1.290	1.00	0.00

ATOM	433	HG2 MET	29	-2.479	8.517	2.286	1.00	0.00
ATOM	434	HG3 MET	29	-2.064	8.363	0.563	1.00	0.00
ATOM	435	SD MET	29	-2.154	10.645	1.257	1.00	0.00
ATOM	436	CE MET	29	-2.159	10.893	-0.528	1.00	0.00
ATOM	437	HE1 MET	29	-3.158	10.704	-0.919	1.00	0.00
ATOM	438	HE2 MET	29	-1.870	11.920	-0.754	1.00	0.00
ATOM	439	HE3 MET	29	-1.451	10.207	-0.993	1.00	0.00
ATOM	440	C MET	29	-5.794	10.428	1.830	1.00	0.00
ATOM	441	O MET	29	-5.260	11.419	1.345	1.00	0.00
ATOM	442	N LYS	30	-7.102	10.411	2.057	1.00	0.00
ATOM	443	H LYS	30	-7.525	9.552	2.376	1.00	0.00
ATOM	444	CA LYS	30	-7.962	11.541	1.791	1.00	0.00
ATOM	445	HA LYS	30	-7.620	12.077	0.905	1.00	0.00
ATOM	446	CB LYS	30	-9.392	11.047	1.543	1.00	0.00
ATOM	447	HB2 LYS	30	-9.461	9.993	1.809	1.00	0.00
ATOM	448	HB3 LYS	30	-10.084	11.623	2.157	1.00	0.00
ATOM	449	CG LYS	30	-9.753	11.224	0.063	1.00	0.00
ATOM	450	HG2 LYS	30	-8.842	11.181	-0.535	1.00	0.00
ATOM	451	HG3 LYS	30	-10.424	10.421	-0.240	1.00	0.00
ATOM	452	CD LYS	30	-10.443	12.575	-0.155	1.00	0.00
ATOM	453	HD2 LYS	30	-11.351	12.399	-0.731	1.00	0.00
ATOM	454	HD3 LYS	30	-10.706	12.980	0.822	1.00	0.00

ATOM	455	CE	LYS	30	-9.558	13.571	-0.895	1.00	0.00
ATOM	456	HE2	LYS	30	-9.982	14.570	-0.787	1.00	0.00
ATOM	457	HE3	LYS	30	-8.560	13.551	-0.457	1.00	0.00
ATOM	458	NZ	LYS	30	-9.472	13.224	-2.337	1.00	0.00
ATOM	459	HZ1	LYS	30	-10.396	13.243	-2.744	1.00	0.00
ATOM	460	HZ2	LYS	30	-8.882	13.894	-2.810	1.00	0.00
ATOM	461	HZ3	LYS	30	-9.079	12.300	-2.438	1.00	0.00
ATOM	462	C	LYS	30	-7.863	12.508	2.948	1.00	0.00
ATOM	463	O	LYS	30	-8.168	13.672	2.737	1.00	0.00
ATOM	464	N	ASN	31	-7.473	12.008	4.124	1.00	0.00
ATOM	465	H	ASN	31	-7.345	11.011	4.216	1.00	0.00
ATOM	466	CA	ASN	31	-7.236	12.845	5.290	1.00	0.00
ATOM	467	HA	ASN	31	-7.651	13.842	5.142	1.00	0.00
ATOM	468	CB	ASN	31	-7.926	12.201	6.495	1.00	0.00
ATOM	469	HB2	ASN	31	-7.906	11.114	6.430	1.00	0.00
ATOM	470	HB3	ASN	31	-7.390	12.522	7.388	1.00	0.00
ATOM	471	CG	ASN	31	-9.362	12.651	6.607	1.00	0.00
ATOM	472	OD1	ASN	31	-9.765	13.367	7.498	1.00	0.00
ATOM	473	ND2	ASN	31	-10.165	12.263	5.645	1.00	0.00
ATOM	474	HD21	ASN	31	-11.138	12.533	5.664	1.00	0.00
ATOM	475	HD22	ASN	31	-9.806	11.697	4.889	1.00	0.00
ATOM	476	C	ASN	31	-5.745	12.998	5.579	1.00	0.00

ATOM	477	O	ASN	31	-5.381	13.747	6.474	1.00	0.00
ATOM	478	N	LEU	32	-4.920	12.245	4.850	1.00	0.00
ATOM	479	H	LEU	32	-5.292	11.567	4.201	1.00	0.00
ATOM	480	CA	LEU	32	-3.499	12.313	5.021	1.00	0.00
ATOM	481	HA	LEU	32	-3.262	12.553	6.057	1.00	0.00
ATOM	482	CB	LEU	32	-2.856	10.977	4.671	1.00	0.00
ATOM	483	HB2	LEU	32	-3.199	10.744	3.662	1.00	0.00
ATOM	484	HB3	LEU	32	-1.770	11.077	4.670	1.00	0.00
ATOM	485	CG	LEU	32	-3.262	9.855	5.617	1.00	0.00
ATOM	486	HG	LEU	32	-4.331	9.927	5.814	1.00	0.00
ATOM	487	CD1	LEU	32	-2.951	8.503	5.000	1.00	0.00
ATOM	488	HD11	LEU	32	-1.881	8.431	4.802	1.00	0.00
ATOM	489	HD12	LEU	32	-3.247	7.712	5.688	1.00	0.00
ATOM	490	HD13	LEU	32	-3.501	8.395	4.065	1.00	0.00
ATOM	491	CD2	LEU	32	-2.557	10.015	6.951	1.00	0.00
ATOM	492	HD21	LEU	32	-2.830	10.973	7.394	1.00	0.00
ATOM	493	HD22	LEU	32	-2.855	9.208	7.619	1.00	0.00
ATOM	494	HD23	LEU	32	-1.478	9.981	6.798	1.00	0.00
ATOM	495	C	LEU	32	-2.939	13.438	4.194	1.00	0.00
ATOM	496	O	LEU	32	-1.878	13.868	4.598	1.00	0.00
ATOM	497	N	GLY	33	-3.652	13.902	3.141	1.00	0.00
ATOM	498	H	GLY	33	-4.536	13.448	2.961	1.00	0.00



ATOM	499	CA	GLY	33	-3.244	14.989	2.263	1.00	0.00
ATOM	500	HA2	GLY	33	-3.767	14.889	1.311	1.00	0.00
ATOM	501	HA3	GLY	33	-3.514	15.938	2.727	1.00	0.00
ATOM	502	C	GLY	33	-1.741	14.973	2.007	1.00	0.00
ATOM	503	O	GLY	33	-0.961	15.655	2.663	1.00	0.00
ATOM	504	N	GLU	34	-1.335	14.228	0.987	1.00	0.00
ATOM	505	H	GLU	34	-1.992	13.690	0.441	1.00	0.00
ATOM	506	CA	GLU	34	0.081	14.107	0.677	1.00	0.00
ATOM	507	HA	GLU	34	0.659	14.108	1.601	1.00	0.00
ATOM	508	CB	GLU	34	0.366	12.807	-0.076	1.00	0.00
ATOM	509	HB2	GLU	34	0.059	11.967	0.546	1.00	0.00
ATOM	510	HB3	GLU	34	-0.212	12.804	-1.001	1.00	0.00
ATOM	511	CG	GLU	34	1.855	12.680	-0.405	1.00	0.00
ATOM	512	HG2	GLU	34	2.000	11.681	-0.815	1.00	0.00
ATOM	513	HG3	GLU	34	2.131	13.423	-1.154	1.00	0.00
ATOM	514	CD	GLU	34	2.734	12.855	0.834	1.00	0.00
ATOM	515	OE1	GLU	34	2.250	12.600	1.954	1.00	0.00
ATOM	516	OE2	GLU	34	3.892	13.283	0.669	1.00	0.00
ATOM	517	C	GLU	34	0.558	15.316	-0.120	1.00	0.00
ATOM	518	O	GLU	34	0.773	15.242	-1.332	1.00	0.00
ATOM	519	N	ARG	35	0.567	16.487	0.513	1.00	0.00
ATOM	520	H	ARG	35	0.235	16.537	1.465	1.00	0.00

ATOM	521	CA	ARG	35	1.007	17.712	-0.126	1.00	0.00
ATOM	522	HA	ARG	35	2.028	17.595	-0.489	1.00	0.00
ATOM	523	CB	ARG	35	0.095	18.049	-1.322	1.00	0.00
ATOM	524	HB2	ARG	35	-0.198	17.124	-1.817	1.00	0.00
ATOM	525	HB3	ARG	35	-0.794	18.563	-0.957	1.00	0.00
ATOM	526	CG	ARG	35	0.827	18.945	-2.314	1.00	0.00
ATOM	527	HG2	ARG	35	0.210	19.822	-2.515	1.00	0.00
ATOM	528	HG3	ARG	35	1.771	19.260	-1.870	1.00	0.00
ATOM	529	CD	ARG	35	1.103	18.203	-3.628	1.00	0.00
ATOM	530	HD2	ARG	35	1.114	17.129	-3.443	1.00	0.00
ATOM	531	HD3	ARG	35	0.321	18.440	-4.350	1.00	0.00
ATOM	532	NE	ARG	35	2.402	18.596	-4.196	1.00	0.00
ATOM	533	HE	ARG	35	3.032	19.079	-3.572	1.00	0.00
ATOM	534	CZ	ARG	35	2.814	18.322	-5.417	1.00	0.00
ATOM	535	NH1	ARG	35	2.037	17.698	-6.267	1.00	0.00
ATOM	536	HH11	ARG	35	1.107	17.421	-5.987	1.00	0.00
ATOM	537	HH12	ARG	35	2.372	17.498	-7.199	1.00	0.00
ATOM	538	NH2	ARG	35	3.992	18.722	-5.818	1.00	0.00
ATOM	539	HH21	ARG	35	4.587	19.243	-5.189	1.00	0.00
ATOM	540	HH22	ARG	35	4.302	18.509	-6.756	1.00	0.00
ATOM	541	C	ARG	35	0.987	18.834	0.888	1.00	0.00
ATOM	542	O	ARG	35	2.040	19.349	1.224	1.00	0.00

ATOM	543	N	SER	36	-0.218	19.265	1.272	1.00	0.00
ATOM	544	H	SER	36	-1.036	18.833	0.867	1.00	0.00
ATOM	545	CA	SER	36	-0.410	20.341	2.231	1.00	0.00
ATOM	546	HA	SER	36	0.105	20.113	3.164	1.00	0.00
ATOM	547	CB	SER	36	0.164	21.641	1.661	1.00	0.00
ATOM	548	HB2	SER	36	1.242	21.529	1.546	1.00	0.00
ATOM	549	HB3	SER	36	-0.287	21.828	0.686	1.00	0.00
ATOM	550	OG	SER	36	-0.105	22.722	2.515	1.00	0.00
ATOM	551	HG	SER	36	0.263	23.526	2.139	1.00	0.00
ATOM	552	C	SER	36	-1.894	20.509	2.523	1.00	0.00
ATOM	553	O	SER	36	-2.343	20.290	3.641	1.00	0.00
ATOM	554	N	GLN	37	-2.676	20.846	1.491	1.00	0.00
ATOM	555	H	GLN	37	-2.261	21.015	0.585	1.00	0.00
ATOM	556	CA	GLN	37	-4.112	21.044	1.640	1.00	0.00
ATOM	557	HA	GLN	37	-4.547	20.222	2.207	1.00	0.00
ATOM	558	CB	GLN	37	-4.382	22.350	2.388	1.00	0.00
ATOM	559	HB2	GLN	37	-3.658	22.464	3.195	1.00	0.00
ATOM	560	HB3	GLN	37	-4.291	23.190	1.698	1.00	0.00
ATOM	561	CG	GLN	37	-5.796	22.321	2.972	1.00	0.00
ATOM	562	HG2	GLN	37	-6.525	22.490	2.179	1.00	0.00
ATOM	563	HG3	GLN	37	-5.963	21.340	3.416	1.00	0.00
ATOM	564	CD	GLN	37	-5.992	23.380	4.045	1.00	0.00

ATOM	565	OE1	GLN	37	-5.090	24.070	4.481	1.00	0.00
ATOM	566	NE2	GLN	37	-7.215	23.549	4.495	1.00	0.00
ATOM	567	HE21	GLN	37	-7.396	24.241	5.208	1.00	0.00
ATOM	568	HE22	GLN	37	-7.968	22.987	4.125	1.00	0.00
ATOM	569	C	GLN	37	-4.794	21.039	0.280	1.00	0.00
ATOM	570	O	GLN	37	-5.181	22.066	-0.272	1.00	0.00
ATOM	571	N	VAL	38	-4.813	19.868	-0.345	1.00	0.00
ATOM	572	H	VAL	38	-4.303	19.080	0.027	1.00	0.00
ATOM	573	CA	VAL	38	-5.469	19.718	-1.636	1.00	0.00
ATOM	574	HA	VAL	38	-5.256	20.556	-2.301	1.00	0.00
ATOM	575	CB	VAL	38	-5.005	18.427	-2.313	1.00	0.00
ATOM	576	HB	VAL	38	-5.532	18.302	-3.259	1.00	0.00
ATOM	577	CG1	VAL	38	-3.495	18.503	-2.576	1.00	0.00
ATOM	578	HG11	VAL	38	-2.967	18.628	-1.631	1.00	0.00
ATOM	579	HG12	VAL	38	-3.163	17.584	-3.059	1.00	0.00
ATOM	580	HG13	VAL	38	-3.281	19.352	-3.226	1.00	0.00
ATOM	581	CG2	VAL	38	-5.332	17.190	-1.468	1.00	0.00
ATOM	582	HG21	VAL	38	-6.409	17.128	-1.317	1.00	0.00
ATOM	583	HG22	VAL	38	-4.986	16.295	-1.985	1.00	0.00
ATOM	584	HG23	VAL	38	-4.833	17.268	-0.502	1.00	0.00
ATOM	585	C	VAL	38	-6.980	19.789	-1.483	1.00	0.00
ATOM	586	O	VAL	38	-7.484	19.810	-0.359	1.00	0.00

ATOM	587	N	SER	39	-7.691	19.797	-2.616	1.00	0.00
ATOM	588	H	SER	39	-7.214	19.850	-3.505	1.00	0.00
ATOM	589	CA	SER	39	-9.143	19.821	-2.612	1.00	0.00
ATOM	590	HA	SER	39	-9.492	20.774	-2.214	1.00	0.00
ATOM	591	CB	SER	39	-9.698	19.651	-4.041	1.00	0.00
ATOM	592	HB2	SER	39	-10.532	20.343	-4.161	1.00	0.00
ATOM	593	HB3	SER	39	-8.905	19.914	-4.742	1.00	0.00
ATOM	594	OG	SER	39	-10.140	18.326	-4.302	1.00	0.00
ATOM	595	HG	SER	39	-10.475	18.272	-5.200	1.00	0.00
ATOM	596	C	SER	39	-9.721	18.755	-1.668	1.00	0.00
ATOM	597	O	SER	39	-9.086	17.746	-1.321	1.00	0.00
ATOM	598	N	PRO	40	-11.010	18.895	-1.354	1.00	0.00
ATOM	599	CD	PRO	40	-11.909	19.945	-1.804	1.00	0.00
ATOM	600	HD2	PRO	40	-12.054	19.824	-2.878	1.00	0.00
ATOM	601	HD3	PRO	40	-11.428	20.904	-1.610	1.00	0.00
ATOM	602	CG	PRO	40	-13.203	19.773	-1.014	1.00	0.00
ATOM	603	HG2	PRO	40	-14.014	19.540	-1.704	1.00	0.00
ATOM	604	HG3	PRO	40	-13.428	20.703	-0.492	1.00	0.00
ATOM	605	CB	PRO	40	-12.967	18.635	-0.025	1.00	0.00
ATOM	606	HB2	PRO	40	-13.802	17.936	-0.053	1.00	0.00
ATOM	607	HB3	PRO	40	-12.836	19.004	0.992	1.00	0.00
ATOM	608	CA	PRO	40	-11.684	17.935	-0.498	1.00	0.00

ATOM	609	HA	PRO	40	-11.052	17.743	0.368	1.00	0.00
ATOM	610	C	PRO	40	-11.957	16.619	-1.232	1.00	0.00
ATOM	611	O	PRO	40	-11.396	16.289	-2.284	1.00	0.00
ATOM	612	N	ARG	41	-12.814	15.787	-0.647	1.00	0.00
ATOM	613	H	ARG	41	-13.150	16.009	0.279	1.00	0.00
ATOM	614	CA	ARG	41	-13.235	14.549	-1.247	1.00	0.00
ATOM	615	HA	ARG	41	-12.388	14.072	-1.740	1.00	0.00
ATOM	616	CB	ARG	41	-13.784	13.595	-0.183	1.00	0.00
ATOM	617	HB2	ARG	41	-13.157	13.656	0.706	1.00	0.00
ATOM	618	HB3	ARG	41	-14.802	13.891	0.069	1.00	0.00
ATOM	619	CG	ARG	41	-13.786	12.149	-0.711	1.00	0.00
ATOM	620	HG2	ARG	41	-13.204	12.129	-1.633	1.00	0.00
ATOM	621	HG3	ARG	41	-13.304	11.519	0.036	1.00	0.00
ATOM	622	CD	ARG	41	-15.193	11.626	-0.987	1.00	0.00
ATOM	623	HD2	ARG	41	-15.920	12.418	-0.805	1.00	0.00
ATOM	624	HD3	ARG	41	-15.265	11.299	-2.025	1.00	0.00
ATOM	625	NE	ARG	41	-15.504	10.495	-0.117	1.00	0.00
ATOM	626	HE	ARG	41	-15.432	9.577	-0.530	1.00	0.00
ATOM	627	CZ	ARG	41	-15.964	10.597	1.117	1.00	0.00
ATOM	628	NH1	ARG	41	-16.114	11.768	1.689	1.00	0.00
ATOM	629	HH11	ARG	41	-15.875	12.609	1.182	1.00	0.00
ATOM	630	HH12	ARG	41	-16.467	11.824	2.633	1.00	0.00

ATOM	631	NH2 ARG	41	-16.172	9.518	1.818	1.00	0.00
ATOM	632	HH21 ARG	41	-15.980	8.613	1.414	1.00	0.00
ATOM	633	HH22 ARG	41	-16.524	9.593	2.761	1.00	0.00
ATOM	634	C ARG	41	-14.264	14.812	-2.323	1.00	0.00
ATOM	635	O ARG	41	-15.277	14.157	-2.315	1.00	0.00
ATOM	636	N MET	42	-14.016	15.744	-3.230	1.00	0.00
ATOM	637	H MET	42	-13.161	16.279	-3.164	1.00	0.00
ATOM	638	CA MET	42	-14.928	16.035	-4.324	1.00	0.00
ATOM	639	HA MET	42	-15.803	16.575	-3.962	1.00	0.00
ATOM	640	CB MET	42	-14.204	16.909	-5.349	1.00	0.00
ATOM	641	HB2 MET	42	-14.824	16.982	-6.243	1.00	0.00
ATOM	642	HB3 MET	42	-14.065	17.902	-4.922	1.00	0.00
ATOM	643	CG MET	42	-12.836	16.317	-5.723	1.00	0.00
ATOM	644	HG2 MET	42	-12.094	16.722	-5.034	1.00	0.00
ATOM	645	HG3 MET	42	-12.893	15.236	-5.601	1.00	0.00
ATOM	646	SD MET	42	-12.343	16.697	-7.413	1.00	0.00
ATOM	647	CE MET	42	-11.870	18.429	-7.161	1.00	0.00
ATOM	648	HE1 MET	42	-11.065	18.484	-6.428	1.00	0.00
ATOM	649	HE2 MET	42	-11.529	18.855	-8.106	1.00	0.00
ATOM	650	HE3 MET	42	-12.730	18.992	-6.799	1.00	0.00
ATOM	651	C MET	42	-15.416	14.762	-5.027	1.00	0.00
ATOM	652	O MET	42	-16.512	14.757	-5.560	1.00	0.00

ATOM	653	N	ARG	43	-14.586	13.701	-5.009	1.00	0.00
ATOM	654	H	ARG	43	-13.646	13.832	-4.664	1.00	0.00
ATOM	655	CA	ARG	43	-14.946	12.411	-5.534	1.00	0.00
ATOM	656	HA	ARG	43	-15.084	12.478	-6.614	1.00	0.00
ATOM	657	CB	ARG	43	-13.844	11.385	-5.244	1.00	0.00
ATOM	658	HB2	ARG	43	-12.923	11.903	-4.973	1.00	0.00
ATOM	659	HB3	ARG	43	-14.152	10.739	-4.423	1.00	0.00
ATOM	660	CG	ARG	43	-13.603	10.538	-6.498	1.00	0.00
ATOM	661	HG2	ARG	43	-13.308	9.533	-6.197	1.00	0.00
ATOM	662	HG3	ARG	43	-14.526	10.488	-7.076	1.00	0.00
ATOM	663	CD	ARG	43	-12.494	11.160	-7.359	1.00	0.00
ATOM	664	HD2	ARG	43	-12.530	10.733	-8.362	1.00	0.00
ATOM	665	HD3	ARG	43	-12.643	12.239	-7.419	1.00	0.00
ATOM	666	NE	ARG	43	-11.158	10.897	-6.779	1.00	0.00
ATOM	667	HE	ARG	43	-11.098	10.117	-6.142	1.00	0.00
ATOM	668	CZ	ARG	43	-10.050	11.547	-7.085	1.00	0.00
ATOM	669	NH1	ARG	43	-10.067	12.539	-7.934	1.00	0.00
ATOM	670	HH11	ARG	43	-10.937	12.817	-8.365	1.00	0.00
ATOM	671	HH12	ARG	43	-9.209	13.025	-8.156	1.00	0.00
ATOM	672	NH2	ARG	43	-8.925	11.253	-6.477	1.00	0.00
ATOM	673	HH21	ARG	43	-8.909	10.528	-5.775	1.00	0.00
ATOM	674	HH22	ARG	43	-8.080	11.754	-6.715	1.00	0.00



ATOM	675	C	ARG	43	-16.287	11.966	-4.971	1.00	0.00
ATOM	676	O	ARG	43	-16.530	12.076	-3.777	1.00	0.00
ATOM	677	N	GLU	44	-17.078	11.342	-5.806	1.00	0.00
ATOM	678	H	GLU	44	-16.815	11.261	-6.778	1.00	0.00
ATOM	679	CA	GLU	44	-18.365	10.796	-5.390	1.00	0.00
ATOM	680	HA	GLU	44	-18.582	11.092	-4.364	1.00	0.00
ATOM	681	CB	GLU	44	-19.475	11.328	-6.297	1.00	0.00
ATOM	682	HB2	GLU	44	-20.419	10.886	-5.981	1.00	0.00
ATOM	683	HB3	GLU	44	-19.524	12.411	-6.182	1.00	0.00
ATOM	684	CG	GLU	44	-19.216	10.981	-7.777	1.00	0.00
ATOM	685	HG2	GLU	44	-19.049	11.879	-8.373	1.00	0.00
ATOM	686	HG3	GLU	44	-18.313	10.371	-7.780	1.00	0.00
ATOM	687	CD	GLU	44	-20.375	10.180	-8.375	1.00	0.00
ATOM	688	OE1	GLU	44	-20.385	8.950	-8.145	1.00	0.00
ATOM	689	OE2	GLU	44	-21.254	10.833	-8.984	1.00	0.00
ATOM	690	C	GLU	44	-18.342	9.266	-5.417	1.00	0.00
ATOM	691	O	GLU	44	-19.073	8.624	-4.672	1.00	0.00
ATOM	692	N	GLU	45	-17.390	8.693	-6.162	1.00	0.00
ATOM	693	H	GLU	45	-16.742	9.276	-6.673	1.00	0.00
ATOM	694	CA	GLU	45	-17.283	7.260	-6.308	1.00	0.00
ATOM	695	HA	GLU	45	-18.279	6.821	-6.357	1.00	0.00
ATOM	696	CB	GLU	45	-16.524	6.899	-7.594	1.00	0.00

ATOM	697	HB2	GLU	45	-15.997	7.782	-7.956	1.00	0.00
ATOM	698	HB3	GLU	45	-15.804	6.112	-7.374	1.00	0.00
ATOM	699	CG	GLU	45	-17.505	6.409	-8.674	1.00	0.00
ATOM	700	HG2	GLU	45	-17.750	5.348	-8.695	1.00	0.00
ATOM	701	HG3	GLU	45	-18.380	6.978	-8.360	1.00	0.00
ATOM	702	CD	GLU	45	-17.079	6.861	-10.072	1.00	0.00
ATOM	703	OE1	GLU	45	-17.166	8.078	-10.344	1.00	0.00
ATOM	704	OE2	GLU	45	-16.452	6.026	-10.767	1.00	0.00
ATOM	705	C	GLU	45	-16.584	6.718	-5.072	1.00	0.00
ATOM	706	O	GLU	45	-15.406	7.022	-4.811	1.00	0.00
ATOM	707	N	ASP	46	-17.301	5.885	-4.326	1.00	0.00
ATOM	708	H	ASP	46	-18.246	5.662	-4.603	1.00	0.00
ATOM	709	CA	ASP	46	-16.778	5.282	-3.119	1.00	0.00
ATOM	710	HA	ASP	46	-16.377	6.058	-2.467	1.00	0.00
ATOM	711	CB	ASP	46	-17.879	4.529	-2.366	1.00	0.00
ATOM	712	HB2	ASP	46	-18.754	5.162	-2.513	1.00	0.00
ATOM	713	HB3	ASP	46	-18.067	3.545	-2.795	1.00	0.00
ATOM	714	CG	ASP	46	-17.597	4.388	-0.867	1.00	0.00
ATOM	715	OD1	ASP	46	-16.570	4.943	-0.398	1.00	0.00
ATOM	716	OD2	ASP	46	-18.343	3.638	-0.207	1.00	0.00
ATOM	717	C	ASP	46	-15.668	4.305	-3.492	1.00	0.00
ATOM	718	O	ASP	46	-15.733	3.564	-4.485	1.00	0.00

ATOM	719	N	HID	47	-14.590	4.286	-2.720	1.00	0.00
ATOM	720	H	HID	47	-14.508	4.946	-1.960	1.00	0.00
ATOM	721	CA	HID	47	-13.479	3.382	-2.970	1.00	0.00
ATOM	722	HA	HID	47	-13.718	2.711	-3.795	1.00	0.00
ATOM	723	CB	HID	47	-12.237	4.184	-3.340	1.00	0.00
ATOM	724	HB2	HID	47	-12.059	4.986	-2.623	1.00	0.00
ATOM	725	HB3	HID	47	-11.360	3.539	-3.389	1.00	0.00
ATOM	726	CG	HID	47	-12.367	4.839	-4.697	1.00	0.00
ATOM	727	ND1	HID	47	-13.346	4.539	-5.636	1.00	0.00
ATOM	728	HD1	HID	47	-14.069	3.841	-5.539	1.00	0.00
ATOM	729	CE1	HID	47	-13.161	5.343	-6.700	1.00	0.00
ATOM	730	HE1	HID	47	-13.843	5.297	-7.550	1.00	0.00
ATOM	731	NE2	HID	47	-12.067	6.115	-6.478	1.00	0.00
ATOM	732	CD2	HID	47	-11.557	5.816	-5.223	1.00	0.00
ATOM	733	HD2	HID	47	-10.674	6.339	-4.855	1.00	0.00
ATOM	734	C	HID	47	-13.261	2.534	-1.753	1.00	0.00
ATOM	735	O	HID	47	-13.038	3.089	-0.687	1.00	0.00
ATOM	736	N	LYS	48	-13.245	1.213	-1.953	1.00	0.00
ATOM	737	H	LYS	48	-13.426	0.877	-2.888	1.00	0.00
ATOM	738	CA	LYS	48	-13.038	0.234	-0.894	1.00	0.00
ATOM	739	HA	LYS	48	-12.005	0.273	-0.547	1.00	0.00
ATOM	740	CB	LYS	48	-13.963	0.535	0.288	1.00	0.00

ATOM	741	HB2 LYS	48	-14.539	1.434	0.066	1.00	0.00
ATOM	742	HB3 LYS	48	-14.642	-0.306	0.428	1.00	0.00
ATOM	743	CG LYS	48	-13.148	0.754	1.569	1.00	0.00
ATOM	744	HG2 LYS	48	-12.497	-0.107	1.719	1.00	0.00
ATOM	745	HG3 LYS	48	-12.540	1.651	1.445	1.00	0.00
ATOM	746	CD LYS	48	-14.064	0.921	2.788	1.00	0.00
ATOM	747	HD2 LYS	48	-13.476	1.311	3.619	1.00	0.00
ATOM	748	HD3 LYS	48	-14.855	1.629	2.539	1.00	0.00
ATOM	749	CE LYS	48	-14.688	-0.425	3.189	1.00	0.00
ATOM	750	HE2 LYS	48	-13.950	-1.213	3.037	1.00	0.00
ATOM	751	HE3 LYS	48	-14.964	-0.384	4.242	1.00	0.00
ATOM	752	NZ LYS	48	-15.895	-0.713	2.372	1.00	0.00
ATOM	753	HZ1 LYS	48	-15.639	-0.751	1.395	1.00	0.00
ATOM	754	HZ2 LYS	48	-16.287	-1.600	2.652	1.00	0.00
ATOM	755	HZ3 LYS	48	-16.579	0.017	2.512	1.00	0.00
ATOM	756	C LYS	48	-13.270	-1.176	-1.409	1.00	0.00
ATOM	757	O LYS	48	-12.561	-2.099	-1.048	1.00	0.00
ATOM	758	N GLN	49	-14.190	-1.312	-2.359	1.00	0.00
ATOM	759	H GLN	49	-14.706	-0.503	-2.678	1.00	0.00
ATOM	760	CA GLN	49	-14.470	-2.582	-2.969	1.00	0.00
ATOM	761	HA GLN	49	-14.266	-3.378	-2.254	1.00	0.00
ATOM	762	CB GLN	49	-15.924	-2.681	-3.406	1.00	0.00

ATOM	763	HB2	GLN	49	-16.379	-1.690	-3.381	1.00	0.00
ATOM	764	HB3	GLN	49	-15.972	-3.076	-4.421	1.00	0.00
ATOM	765	CG	GLN	49	-16.680	-3.612	-2.461	1.00	0.00
ATOM	766	HG2	GLN	49	-16.197	-4.588	-2.491	1.00	0.00
ATOM	767	HG3	GLN	49	-16.643	-3.219	-1.445	1.00	0.00
ATOM	768	CD	GLN	49	-18.136	-3.777	-2.865	1.00	0.00
ATOM	769	OE1	GLN	49	-18.576	-3.366	-3.919	1.00	0.00
ATOM	770	NE2	GLN	49	-18.918	-4.375	-1.997	1.00	0.00
ATOM	771	HE21	GLN	49	-19.895	-4.511	-2.213	1.00	0.00
ATOM	772	HE22	GLN	49	-18.539	-4.695	-1.118	1.00	0.00
ATOM	773	C	GLN	49	-13.607	-2.740	-4.182	1.00	0.00
ATOM	774	O	GLN	49	-13.257	-3.852	-4.436	1.00	0.00
ATOM	775	N	LEU	50	-13.139	-1.690	-4.850	1.00	0.00
ATOM	776	H	LEU	50	-13.457	-0.774	-4.567	1.00	0.00
ATOM	777	CA	LEU	50	-12.244	-1.785	-5.991	1.00	0.00
ATOM	778	HA	LEU	50	-12.658	-2.443	-6.755	1.00	0.00
ATOM	779	CB	LEU	50	-12.073	-0.380	-6.593	1.00	0.00
ATOM	780	HB2	LEU	50	-12.186	0.313	-5.759	1.00	0.00
ATOM	781	HB3	LEU	50	-11.071	-0.282	-7.013	1.00	0.00
ATOM	782	CG	LEU	50	-13.116	-0.053	-7.676	1.00	0.00
ATOM	783	HG	LEU	50	-14.055	-0.553	-7.439	1.00	0.00
ATOM	784	CD1	LEU	50	-13.344	1.462	-7.729	1.00	0.00

ATOM	785	HD11	LEU	50	-12.406	1.963	-7.967	1.00	0.00
ATOM	786	HD12	LEU	50	-14.083	1.693	-8.497	1.00	0.00
ATOM	787	HD13	LEU	50	-13.706	1.810	-6.762	1.00	0.00
ATOM	788	CD2	LEU	50	-12.666	-0.582	-9.040	1.00	0.00
ATOM	789	HD21	LEU	50	-12.541	-1.663	-8.988	1.00	0.00
ATOM	790	HD22	LEU	50	-13.418	-0.339	-9.791	1.00	0.00
ATOM	791	HD23	LEU	50	-11.718	-0.120	-9.315	1.00	0.00
ATOM	792	C	LEU	50	-10.905	-2.385	-5.559	1.00	0.00
ATOM	793	O	LEU	50	-10.221	-2.979	-6.371	1.00	0.00
ATOM	794	N	CYX	51	-10.566	-2.282	-4.271	1.00	0.00
ATOM	795	H	CYX	51	-11.141	-1.721	-3.659	1.00	0.00
ATOM	796	CA	CYX	51	-9.379	-2.892	-3.726	1.00	0.00
ATOM	797	HA	CYX	51	-8.606	-2.953	-4.492	1.00	0.00
ATOM	798	CB	CYX	51	-8.853	-2.065	-2.573	1.00	0.00
ATOM	799	HB2	CYX	51	-7.767	-2.146	-2.533	1.00	0.00
ATOM	800	HB3	CYX	51	-9.133	-1.021	-2.717	1.00	0.00
ATOM	801	SG	CYX	51	-9.409	-2.448	-0.881	1.00	0.00
ATOM	802	C	CYX	51	-9.672	-4.300	-3.288	1.00	0.00
ATOM	803	O	CYX	51	-8.964	-5.179	-3.735	1.00	0.00
ATOM	804	N	CYX	52	-10.778	-4.523	-2.566	1.00	0.00
ATOM	805	H	CYX	52	-11.314	-3.730	-2.243	1.00	0.00
ATOM	806	CA	CYX	52	-11.187	-5.852	-2.142	1.00	0.00

ATOM	807	HA	CYX	52	-10.326	-6.402	-1.762	1.00	0.00
ATOM	808	CB	CYX	52	-12.238	-5.753	-1.028	1.00	0.00
ATOM	809	HB2	CYX	52	-12.828	-4.846	-1.164	1.00	0.00
ATOM	810	HB3	CYX	52	-12.894	-6.622	-1.069	1.00	0.00
ATOM	811	SG	CYX	52	-11.490	-5.736	0.633	1.00	0.00
ATOM	812	C	CYX	52	-11.683	-6.663	-3.344	1.00	0.00
ATOM	813	O	CYX	52	-12.017	-7.830	-3.202	1.00	0.00
ATOM	814	N	MET	53	-11.742	-6.050	-4.525	1.00	0.00
ATOM	815	H	MET	53	-11.419	-5.093	-4.561	1.00	0.00
ATOM	816	CA	MET	53	-12.243	-6.646	-5.734	1.00	0.00
ATOM	817	HA	MET	53	-12.901	-7.477	-5.484	1.00	0.00
ATOM	818	CB	MET	53	-13.033	-5.630	-6.566	1.00	0.00
ATOM	819	HB2	MET	53	-13.994	-5.457	-6.082	1.00	0.00
ATOM	820	HB3	MET	53	-12.470	-4.696	-6.599	1.00	0.00
ATOM	821	CG	MET	53	-13.263	-6.131	-7.981	1.00	0.00
ATOM	822	HG2	MET	53	-13.024	-7.193	-8.029	1.00	0.00
ATOM	823	HG3	MET	53	-14.309	-5.981	-8.249	1.00	0.00
ATOM	824	SD	MET	53	-12.217	-5.235	-9.151	1.00	0.00
ATOM	825	CE	MET	53	-11.893	-6.575	-10.316	1.00	0.00
ATOM	826	HE1	MET	53	-12.835	-6.930	-10.733	1.00	0.00
ATOM	827	HE2	MET	53	-11.254	-6.210	-11.121	1.00	0.00
ATOM	828	HE3	MET	53	-11.393	-7.394	-9.799	1.00	0.00

ATOM	829	C	MET	53	-11.053	-7.151	-6.513	1.00	0.00
ATOM	830	O	MET	53	-11.041	-8.305	-6.907	1.00	0.00
ATOM	831	N	GLN	54	-10.090	-6.275	-6.791	1.00	0.00
ATOM	832	H	GLN	54	-10.146	-5.321	-6.463	1.00	0.00
ATOM	833	CA	GLN	54	-8.931	-6.667	-7.563	1.00	0.00
ATOM	834	HA	GLN	54	-9.247	-7.205	-8.457	1.00	0.00
ATOM	835	CB	GLN	54	-8.141	-5.450	-7.987	1.00	0.00
ATOM	836	HB2	GLN	54	-8.228	-4.699	-7.202	1.00	0.00
ATOM	837	HB3	GLN	54	-7.097	-5.744	-8.093	1.00	0.00
ATOM	838	CG	GLN	54	-8.637	-4.870	-9.297	1.00	0.00
ATOM	839	HG2	GLN	54	-7.889	-5.057	-10.068	1.00	0.00
ATOM	840	HG3	GLN	54	-9.562	-5.385	-9.556	1.00	0.00
ATOM	841	CD	GLN	54	-8.913	-3.375	-9.241	1.00	0.00
ATOM	842	OE1	GLN	54	-8.221	-2.564	-8.666	1.00	0.00
ATOM	843	NE2	GLN	54	-9.965	-2.931	-9.870	1.00	0.00
ATOM	844	HE21	GLN	54	-10.180	-1.944	-9.855	1.00	0.00
ATOM	845	HE22	GLN	54	-10.560	-3.575	-10.370	1.00	0.00
ATOM	846	C	GLN	54	-8.030	-7.549	-6.738	1.00	0.00
ATOM	847	O	GLN	54	-7.416	-8.431	-7.307	1.00	0.00
ATOM	848	N	LEU	55	-7.986	-7.375	-5.415	1.00	0.00
ATOM	849	H	LEU	55	-8.540	-6.645	-4.990	1.00	0.00
ATOM	850	CA	LEU	55	-7.152	-8.198	-4.555	1.00	0.00



ATOM	851	HA	LEU	55	-6.098	-8.065	-4.802	1.00	0.00
ATOM	852	CB	LEU	55	-7.369	-7.778	-3.111	1.00	0.00
ATOM	853	HB2	LEU	55	-8.342	-7.289	-3.150	1.00	0.00
ATOM	854	HB3	LEU	55	-7.430	-8.658	-2.471	1.00	0.00
ATOM	855	CG	LEU	55	-6.323	-6.797	-2.538	1.00	0.00
ATOM	856	HG	LEU	55	-5.773	-6.372	-3.379	1.00	0.00
ATOM	857	CD1	LEU	55	-6.948	-5.662	-1.709	1.00	0.00
ATOM	858	HD11	LEU	55	-7.497	-6.085	-0.869	1.00	0.00
ATOM	859	HD12	LEU	55	-6.160	-5.008	-1.336	1.00	0.00
ATOM	860	HD13	LEU	55	-7.630	-5.087	-2.336	1.00	0.00
ATOM	861	CD2	LEU	55	-5.265	-7.540	-1.717	1.00	0.00
ATOM	862	HD21	LEU	55	-4.754	-8.263	-2.352	1.00	0.00
ATOM	863	HD22	LEU	55	-4.541	-6.825	-1.326	1.00	0.00
ATOM	864	HD23	LEU	55	-5.746	-8.060	-0.889	1.00	0.00
ATOM	865	C	LEU	55	-7.527	-9.660	-4.741	1.00	0.00
ATOM	866	O	LEU	55	-6.678	-10.516	-4.595	1.00	0.00
ATOM	867	N	LYS	56	-8.776	-9.938	-5.116	1.00	0.00
ATOM	868	H	LYS	56	-9.482	-9.216	-5.077	1.00	0.00
ATOM	869	CA	LYS	56	-9.184	-11.276	-5.478	1.00	0.00
ATOM	870	HA	LYS	56	-8.866	-11.993	-4.722	1.00	0.00
ATOM	871	CB	LYS	56	-10.707	-11.313	-5.576	1.00	0.00
ATOM	872	HB2	LYS	56	-11.129	-11.065	-4.603	1.00	0.00

ATOM	873	HB3 LYS	56	-11.031	-10.575	-6.311	1.00	0.00
ATOM	874	CG LYS	56	-11.189	-12.703	-6.002	1.00	0.00
ATOM	875	HG2 LYS	56	-11.492	-12.665	-7.049	1.00	0.00
ATOM	876	HG3 LYS	56	-10.368	-13.411	-5.887	1.00	0.00
ATOM	877	CD LYS	56	-12.373	-13.152	-5.145	1.00	0.00
ATOM	878	HD2 LYS	56	-11.997	-13.617	-4.235	1.00	0.00
ATOM	879	HD3 LYS	56	-12.975	-12.281	-4.886	1.00	0.00
ATOM	880	CE LYS	56	-13.236	-14.158	-5.914	1.00	0.00
ATOM	881	HE2 LYS	56	-13.189	-13.930	-6.979	1.00	0.00
ATOM	882	HE3 LYS	56	-12.854	-15.164	-5.741	1.00	0.00
ATOM	883	NZ LYS	56	-14.643	-14.078	-5.454	1.00	0.00
ATOM	884	HZ1 LYS	56	-14.997	-13.146	-5.615	1.00	0.00
ATOM	885	HZ2 LYS	56	-15.203	-14.744	-5.967	1.00	0.00
ATOM	886	HZ3 LYS	56	-14.687	-14.289	-4.468	1.00	0.00
ATOM	887	C LYS	56	-8.506	-11.765	-6.755	1.00	0.00
ATOM	888	O LYS	56	-8.120	-12.920	-6.807	1.00	0.00
ATOM	889	N ASN	57	-8.470	-10.928	-7.792	1.00	0.00
ATOM	890	H ASN	57	-8.994	-10.065	-7.761	1.00	0.00
ATOM	891	CA ASN	57	-7.726	-11.236	-8.996	1.00	0.00
ATOM	892	HA ASN	57	-8.159	-12.108	-9.485	1.00	0.00
ATOM	893	CB ASN	57	-7.772	-10.048	-9.978	1.00	0.00
ATOM	894	HB2 ASN	57	-8.076	-9.128	-9.479	1.00	0.00

ATOM	895	HB3 ASN	57	-6.755	-9.937	-10.354	1.00	0.00
ATOM	896	CG ASN	57	-8.695	-10.289	-11.148	1.00	0.00
ATOM	897	OD1 ASN	57	-9.108	-11.386	-11.474	1.00	0.00
ATOM	898	ND2 ASN	57	-9.111	-9.218	-11.784	1.00	0.00
ATOM	899	HD21 ASN	57	-9.731	-9.313	-12.576	1.00	0.00
ATOM	900	HD22 ASN	57	-8.809	-8.303	-11.479	1.00	0.00
ATOM	901	C ASN	57	-6.263	-11.585	-8.721	1.00	0.00
ATOM	902	O ASN	57	-5.662	-12.279	-9.533	1.00	0.00
ATOM	903	N LEU	58	-5.686	-10.972	-7.681	1.00	0.00
ATOM	904	H LEU	58	-6.167	-10.213	-7.219	1.00	0.00
ATOM	905	CA LEU	58	-4.336	-11.275	-7.272	1.00	0.00
ATOM	906	HA LEU	58	-3.659	-11.218	-8.125	1.00	0.00
ATOM	907	CB LEU	58	-3.882	-10.253	-6.216	1.00	0.00
ATOM	908	HB2 LEU	58	-4.773	-9.992	-5.645	1.00	0.00
ATOM	909	HB3 LEU	58	-3.164	-10.749	-5.563	1.00	0.00
ATOM	910	CG LEU	58	-3.259	-8.991	-6.785	1.00	0.00
ATOM	911	HG LEU	58	-4.013	-8.442	-7.350	1.00	0.00
ATOM	912	CD1 LEU	58	-2.728	-8.107	-5.650	1.00	0.00
ATOM	913	HD11 LEU	58	-1.973	-8.654	-5.085	1.00	0.00
ATOM	914	HD12 LEU	58	-2.283	-7.204	-6.070	1.00	0.00
ATOM	915	HD13 LEU	58	-3.549	-7.832	-4.988	1.00	0.00
ATOM	916	CD2 LEU	58	-2.135	-9.336	-7.717	1.00	0.00

ATOM	917	HD21	LEU	58	-2.516	-9.944	-8.538	1.00	0.00
ATOM	918	HD22	LEU	58	-1.699	-8.420	-8.117	1.00	0.00
ATOM	919	HD23	LEU	58	-1.372	-9.894	-7.176	1.00	0.00
ATOM	920	C	LEU	58	-4.202	-12.729	-6.800	1.00	0.00
ATOM	921	O	LEU	58	-5.112	-13.548	-6.896	1.00	0.00
ATOM	922	N	ASP	59	-3.027	-13.059	-6.287	1.00	0.00
ATOM	923	H	ASP	59	-2.281	-12.379	-6.236	1.00	0.00
ATOM	924	CA	ASP	59	-2.775	-14.390	-5.791	1.00	0.00
ATOM	925	HA	ASP	59	-3.452	-15.098	-6.267	1.00	0.00
ATOM	926	CB	ASP	59	-1.340	-14.804	-6.101	1.00	0.00
ATOM	927	HB2	ASP	59	-0.799	-14.043	-5.539	1.00	0.00
ATOM	928	HB3	ASP	59	-1.059	-15.792	-5.738	1.00	0.00
ATOM	929	CG	ASP	59	-0.989	-14.688	-7.581	1.00	0.00
ATOM	930	OD1	ASP	59	-1.750	-15.236	-8.397	1.00	0.00
ATOM	931	OD2	ASP	59	0.134	-14.208	-7.840	1.00	0.00
ATOM	932	C	ASP	59	-2.989	-14.417	-4.291	1.00	0.00
ATOM	933	O	ASP	59	-2.659	-13.453	-3.597	1.00	0.00
ATOM	934	N	GLU	60	-3.231	-15.608	-3.748	1.00	0.00
ATOM	935	H	GLU	60	-3.300	-16.424	-4.339	1.00	0.00
ATOM	936	CA	GLU	60	-3.429	-15.775	-2.308	1.00	0.00
ATOM	937	HA	GLU	60	-4.092	-14.995	-1.934	1.00	0.00
ATOM	938	CB	GLU	60	-4.059	-17.141	-2.007	1.00	0.00

ATOM	939	HB2	GLU	60	-4.412	-17.584	-2.938	1.00	0.00
ATOM	940	HB3	GLU	60	-3.307	-17.790	-1.558	1.00	0.00
ATOM	941	CG	GLU	60	-5.238	-16.978	-1.039	1.00	0.00
ATOM	942	HG2	GLU	60	-4.956	-16.207	-0.321	1.00	0.00
ATOM	943	HG3	GLU	60	-6.133	-16.663	-1.576	1.00	0.00
ATOM	944	CD	GLU	60	-5.521	-18.289	-0.297	1.00	0.00
ATOM	945	OE1	GLU	60	-4.908	-18.481	0.778	1.00	0.00
ATOM	946	OE2	GLU	60	-6.310	-19.094	-0.836	1.00	0.00
ATOM	947	C	GLU	60	-2.095	-15.656	-1.571	1.00	0.00
ATOM	948	O	GLU	60	-2.032	-15.311	-0.396	1.00	0.00
ATOM	949	N	LYS	61	-0.995	-15.901	-2.291	1.00	0.00
ATOM	950	H	LYS	61	-1.089	-16.278	-3.223	1.00	0.00
ATOM	951	CA	LYS	61	0.330	-15.732	-1.753	1.00	0.00
ATOM	952	HA	LYS	61	0.319	-15.850	-0.670	1.00	0.00
ATOM	953	CB	LYS	61	1.256	-16.792	-2.351	1.00	0.00
ATOM	954	HB2	LYS	61	2.162	-16.833	-1.746	1.00	0.00
ATOM	955	HB3	LYS	61	0.746	-17.754	-2.307	1.00	0.00
ATOM	956	CG	LYS	61	1.628	-16.477	-3.806	1.00	0.00
ATOM	957	HG2	LYS	61	0.716	-16.268	-4.366	1.00	0.00
ATOM	958	HG3	LYS	61	2.273	-15.598	-3.823	1.00	0.00
ATOM	959	CD	LYS	61	2.361	-17.659	-4.448	1.00	0.00
ATOM	960	HD2	LYS	61	3.289	-17.300	-4.894	1.00	0.00

ATOM	961	HD3 LYS	61	2.589	-18.395	-3.678	1.00	0.00
ATOM	962	CE LYS	61	1.490	-18.307	-5.532	1.00	0.00
ATOM	963	HE2 LYS	61	0.833	-17.548	-5.958	1.00	0.00
ATOM	964	HE3 LYS	61	2.137	-18.706	-6.314	1.00	0.00
ATOM	965	NZ LYS	61	0.672	-19.404	-4.958	1.00	0.00
ATOM	966	HZ1 LYS	61	0.073	-19.033	-4.235	1.00	0.00
ATOM	967	HZ2 LYS	61	0.106	-19.817	-5.686	1.00	0.00
ATOM	968	HZ3 LYS	61	1.281	-20.107	-4.564	1.00	0.00
ATOM	969	C LYS	61	0.817	-14.328	-2.001	1.00	0.00
ATOM	970	O LYS	61	1.883	-14.035	-1.515	1.00	0.00
ATOM	971	N CYX	62	0.135	-13.514	-2.800	1.00	0.00
ATOM	972	H CYX	62	-0.649	-13.908	-3.300	1.00	0.00
ATOM	973	CA CYX	62	0.467	-12.127	-3.032	1.00	0.00
ATOM	974	HA CYX	62	1.496	-11.925	-2.736	1.00	0.00
ATOM	975	CB CYX	62	0.321	-11.825	-4.509	1.00	0.00
ATOM	976	HB2 CYX	62	-0.630	-12.218	-4.869	1.00	0.00
ATOM	977	HB3 CYX	62	0.350	-10.746	-4.665	1.00	0.00
ATOM	978	SG CYX	62	1.615	-12.573	-5.536	1.00	0.00
ATOM	979	C CYX	62	-0.442	-11.233	-2.186	1.00	0.00
ATOM	980	O CYX	62	-0.130	-10.081	-1.913	1.00	0.00
ATOM	981	N MET	63	-1.496	-11.771	-1.607	1.00	0.00
ATOM	982	H MET	63	-1.691	-12.750	-1.760	1.00	0.00

ATOM	983	CA	MET	63	-2.407	-11.013	-0.794	1.00	0.00
ATOM	984	HA	MET	63	-2.498	-9.992	-1.165	1.00	0.00
ATOM	985	CB	MET	63	-3.765	-11.672	-0.854	1.00	0.00
ATOM	986	HB2	MET	63	-3.623	-12.744	-0.718	1.00	0.00
ATOM	987	HB3	MET	63	-4.364	-11.278	-0.034	1.00	0.00
ATOM	988	CG	MET	63	-4.481	-11.420	-2.169	1.00	0.00
ATOM	989	HG2	MET	63	-5.124	-10.549	-2.043	1.00	0.00
ATOM	990	HG3	MET	63	-3.729	-11.208	-2.930	1.00	0.00
ATOM	991	SD	MET	63	-5.481	-12.825	-2.699	1.00	0.00
ATOM	992	CE	MET	63	-6.339	-13.203	-1.168	1.00	0.00
ATOM	993	HE1	MET	63	-6.924	-12.338	-0.856	1.00	0.00
ATOM	994	HE2	MET	63	-7.003	-14.053	-1.324	1.00	0.00
ATOM	995	HE3	MET	63	-5.611	-13.447	-0.394	1.00	0.00
ATOM	996	C	MET	63	-1.871	-10.961	0.612	1.00	0.00
ATOM	997	O	MET	63	-2.449	-11.471	1.529	1.00	0.00
ATOM	998	N	CYX	64	-0.727	-10.374	0.855	1.00	0.00
ATOM	999	H	CYX	64	-0.230	-9.991	0.062	1.00	0.00
ATOM	1000	CA	CYX	64	-0.097	-10.301	2.165	1.00	0.00
ATOM	1001	HA	CYX	64	-0.671	-9.609	2.781	1.00	0.00
ATOM	1002	CB	CYX	64	-0.021	-11.660	2.889	1.00	0.00
ATOM	1003	HB2	CYX	64	-0.838	-11.736	3.606	1.00	0.00
ATOM	1004	HB3	CYX	64	-0.103	-12.465	2.159	1.00	0.00

ATOM	1005	SG	CYX	64	1.521	-11.974	3.841	1.00	0.00
ATOM	1006	C	CYX	64	1.277	-9.706	1.982	1.00	0.00
ATOM	1007	O	CYX	64	1.539	-8.630	2.521	1.00	0.00
ATOM	1008	N	PRO	65	2.128	-10.372	1.180	1.00	0.00
ATOM	1009	CD	PRO	65	1.869	-11.621	0.476	1.00	0.00
ATOM	1010	HD2	PRO	65	1.130	-11.414	-0.298	1.00	0.00
ATOM	1011	HD3	PRO	65	1.453	-12.324	1.197	1.00	0.00
ATOM	1012	CG	PRO	65	3.190	-12.091	-0.093	1.00	0.00
ATOM	1013	HG2	PRO	65	3.122	-12.102	-1.181	1.00	0.00
ATOM	1014	HG3	PRO	65	3.391	-13.099	0.268	1.00	0.00
ATOM	1015	CB	PRO	65	4.252	-11.125	0.384	1.00	0.00
ATOM	1016	HB2	PRO	65	4.853	-10.819	-0.473	1.00	0.00
ATOM	1017	HB3	PRO	65	4.902	-11.542	1.153	1.00	0.00
ATOM	1018	CA	PRO	65	3.488	-9.916	0.943	1.00	0.00
ATOM	1019	HA	PRO	65	3.924	-9.596	1.889	1.00	0.00
ATOM	1020	C	PRO	65	3.499	-8.751	-0.040	1.00	0.00
ATOM	1021	O	PRO	65	4.304	-7.841	0.100	1.00	0.00
ATOM	1022	N	ALA	66	2.587	-8.769	-1.012	1.00	0.00
ATOM	1023	H	ALA	66	1.962	-9.558	-1.093	1.00	0.00
ATOM	1024	CA	ALA	66	2.473	-7.714	-1.969	1.00	0.00
ATOM	1025	HA	ALA	66	3.443	-7.440	-2.386	1.00	0.00
ATOM	1026	CB	ALA	66	1.562	-8.137	-3.101	1.00	0.00



ATOM	1027	HB1	ALA	66	0.585	-8.405	-2.701	1.00	0.00
ATOM	1028	HB2	ALA	66	1.452	-7.313	-3.807	1.00	0.00
ATOM	1029	HB3	ALA	66	1.993	-8.997	-3.613	1.00	0.00
ATOM	1030	C	ALA	66	1.926	-6.501	-1.277	1.00	0.00
ATOM	1031	O	ALA	66	2.531	-5.470	-1.424	1.00	0.00
ATOM	1032	N	ILE	67	0.844	-6.603	-0.510	1.00	0.00
ATOM	1033	H	ILE	67	0.412	-7.511	-0.421	1.00	0.00
ATOM	1034	CA	ILE	67	0.245	-5.484	0.196	1.00	0.00
ATOM	1035	HA	ILE	67	-0.335	-4.819	-0.445	1.00	0.00
ATOM	1036	CB	ILE	67	-0.633	-5.987	1.333	1.00	0.00
ATOM	1037	HB	ILE	67	-0.094	-6.756	1.884	1.00	0.00
ATOM	1038	CG2	ILE	67	-0.993	-4.830	2.285	1.00	0.00
ATOM	1039	HG21	ILE	67	-1.532	-4.059	1.733	1.00	0.00
ATOM	1040	HG22	ILE	67	-1.621	-5.205	3.092	1.00	0.00
ATOM	1041	HG23	ILE	67	-0.080	-4.405	2.702	1.00	0.00
ATOM	1042	CG1	ILE	67	-1.863	-6.717	0.760	1.00	0.00
ATOM	1043	HG12	ILE	67	-1.933	-6.480	-0.302	1.00	0.00
ATOM	1044	HG13	ILE	67	-1.709	-7.789	0.883	1.00	0.00
ATOM	1045	CD1	ILE	67	-3.155	-6.306	1.459	1.00	0.00
ATOM	1046	HD11	ILE	67	-3.310	-5.234	1.335	1.00	0.00
ATOM	1047	HD12	ILE	67	-3.994	-6.846	1.020	1.00	0.00
ATOM	1048	HD13	ILE	67	-3.085	-6.542	2.520	1.00	0.00

ATOM	1049	C	ILE	67	1.332	-4.586	0.764	1.00	0.00
ATOM	1050	O	ILE	67	1.362	-3.418	0.494	1.00	0.00
ATOM	1051	N	MET	68	2.284	-5.089	1.517	1.00	0.00
ATOM	1052	H	MET	68	2.255	-6.069	1.759	1.00	0.00
ATOM	1053	CA	MET	68	3.383	-4.285	2.029	1.00	0.00
ATOM	1054	HA	MET	68	3.044	-3.635	2.836	1.00	0.00
ATOM	1055	CB	MET	68	4.445	-5.215	2.571	1.00	0.00
ATOM	1056	HB2	MET	68	4.769	-5.877	1.768	1.00	0.00
ATOM	1057	HB3	MET	68	5.290	-4.616	2.911	1.00	0.00
ATOM	1058	CG	MET	68	3.913	-6.047	3.731	1.00	0.00
ATOM	1059	HG2	MET	68	4.122	-5.530	4.667	1.00	0.00
ATOM	1060	HG3	MET	68	2.836	-6.172	3.617	1.00	0.00
ATOM	1061	SD	MET	68	4.701	-7.675	3.761	1.00	0.00
ATOM	1062	CE	MET	68	3.532	-8.538	4.829	1.00	0.00
ATOM	1063	HE1	MET	68	2.543	-8.525	4.370	1.00	0.00
ATOM	1064	HE2	MET	68	3.856	-9.569	4.964	1.00	0.00
ATOM	1065	HE3	MET	68	3.489	-8.041	5.798	1.00	0.00
ATOM	1066	C	MET	68	4.007	-3.400	0.966	1.00	0.00
ATOM	1067	O	MET	68	3.896	-2.182	1.112	1.00	0.00
ATOM	1068	N	MET	69	4.461	-4.021	-0.136	1.00	0.00
ATOM	1069	H	MET	69	4.490	-5.030	-0.143	1.00	0.00
ATOM	1070	CA	MET	69	4.963	-3.314	-1.292	1.00	0.00

ATOM	1071	HA	MET	69	5.837	-2.721	-1.023	1.00	0.00
ATOM	1072	CB	MET	69	5.366	-4.315	-2.363	1.00	0.00
ATOM	1073	HB2	MET	69	4.636	-5.124	-2.369	1.00	0.00
ATOM	1074	HB3	MET	69	5.354	-3.808	-3.329	1.00	0.00
ATOM	1075	CG	MET	69	6.746	-4.882	-2.108	1.00	0.00
ATOM	1076	HG2	MET	69	6.784	-5.300	-1.103	1.00	0.00
ATOM	1077	HG3	MET	69	6.953	-5.667	-2.836	1.00	0.00
ATOM	1078	SD	MET	69	7.998	-3.585	-2.260	1.00	0.00
ATOM	1079	CE	MET	69	9.416	-4.472	-1.611	1.00	0.00
ATOM	1080	HE1	MET	69	9.607	-5.352	-2.225	1.00	0.00
ATOM	1081	HE2	MET	69	10.291	-3.821	-1.628	1.00	0.00
ATOM	1082	HE3	MET	69	9.214	-4.781	-0.586	1.00	0.00
ATOM	1083	C	MET	69	3.983	-2.310	-1.893	1.00	0.00
ATOM	1084	O	MET	69	4.384	-1.282	-2.430	1.00	0.00
ATOM	1085	N	MET	70	2.692	-2.581	-1.801	1.00	0.00
ATOM	1086	H	MET	70	2.420	-3.484	-1.442	1.00	0.00
ATOM	1087	CA	MET	70	1.661	-1.684	-2.236	1.00	0.00
ATOM	1088	HA	MET	70	1.707	-1.538	-3.316	1.00	0.00
ATOM	1089	CB	MET	70	0.312	-2.289	-1.884	1.00	0.00
ATOM	1090	HB2	MET	70	-0.307	-2.212	-2.778	1.00	0.00
ATOM	1091	HB3	MET	70	0.491	-3.339	-1.656	1.00	0.00
ATOM	1092	CG	MET	70	-0.405	-1.630	-0.712	1.00	0.00

ATOM	1093	HG2 MET	70	0.351	-1.450	0.052	1.00	0.00
ATOM	1094	HG3 MET	70	-0.785	-0.676	-1.078	1.00	0.00
ATOM	1095	SD MET	70	-1.756	-2.569	0.003	1.00	0.00
ATOM	1096	CE MET	70	-2.662	-1.257	0.789	1.00	0.00
ATOM	1097	HE1 MET	70	-2.976	-0.531	0.038	1.00	0.00
ATOM	1098	HE2 MET	70	-3.541	-1.668	1.285	1.00	0.00
ATOM	1099	HE3 MET	70	-2.026	-0.765	1.525	1.00	0.00
ATOM	1100	C MET	70	1.812	-0.308	-1.621	1.00	0.00
ATOM	1101	O MET	70	1.476	0.679	-2.257	1.00	0.00
ATOM	1102	N LEU	71	2.238	-0.258	-0.356	1.00	0.00
ATOM	1103	H LEU	71	2.383	-1.129	0.134	1.00	0.00
ATOM	1104	CA LEU	71	2.390	0.976	0.380	1.00	0.00
ATOM	1105	HA LEU	71	1.933	1.794	-0.177	1.00	0.00
ATOM	1106	CB LEU	71	1.715	0.879	1.748	1.00	0.00
ATOM	1107	HB2 LEU	71	2.188	0.007	2.199	1.00	0.00
ATOM	1108	HB3 LEU	71	1.947	1.765	2.339	1.00	0.00
ATOM	1109	CG LEU	71	0.209	0.675	1.710	1.00	0.00
ATOM	1110	HG LEU	71	-0.008	-0.365	1.467	1.00	0.00
ATOM	1111	CD1 LEU	71	-0.384	1.011	3.051	1.00	0.00
ATOM	1112	HD11 LEU	71	-0.167	2.052	3.294	1.00	0.00
ATOM	1113	HD12 LEU	71	-1.463	0.864	3.018	1.00	0.00
ATOM	1114	HD13 LEU	71	0.049	0.363	3.812	1.00	0.00

ATOM	1115	CD2	LEU	71	-0.489	1.462	0.607	1.00	0.00
ATOM	1116	HD21	LEU	71	-0.096	1.157	-0.363	1.00	0.00
ATOM	1117	HD22	LEU	71	-1.561	1.266	0.642	1.00	0.00
ATOM	1118	HD23	LEU	71	-0.310	2.528	0.751	1.00	0.00
ATOM	1119	C	LEU	71	3.866	1.302	0.441	1.00	0.00
ATOM	1120	O	LEU	71	4.346	1.846	1.427	1.00	0.00
ATOM	1121	N	ASN	72	4.613	0.901	-0.575	1.00	0.00
ATOM	1122	H	ASN	72	4.174	0.338	-1.290	1.00	0.00
ATOM	1123	CA	ASN	72	6.023	1.191	-0.701	1.00	0.00
ATOM	1124	HA	ASN	72	6.343	1.869	0.090	1.00	0.00
ATOM	1125	CB	ASN	72	6.818	-0.103	-0.584	1.00	0.00
ATOM	1126	HB2	ASN	72	6.531	-0.898	-1.272	1.00	0.00
ATOM	1127	HB3	ASN	72	7.831	0.228	-0.814	1.00	0.00
ATOM	1128	CG	ASN	72	6.797	-0.650	0.821	1.00	0.00
ATOM	1129	OD1	ASN	72	6.631	-1.819	1.086	1.00	0.00
ATOM	1130	ND2	ASN	72	7.136	0.161	1.790	1.00	0.00
ATOM	1131	HD21	ASN	72	7.134	-0.169	2.744	1.00	0.00
ATOM	1132	HD22	ASN	72	7.398	1.114	1.579	1.00	0.00
ATOM	1133	C	ASN	72	6.324	1.870	-2.023	1.00	0.00
ATOM	1134	O	ASN	72	7.488	2.111	-2.332	1.00	0.00
ATOM	1135	N	GLU	73	5.282	2.121	-2.811	1.00	0.00
ATOM	1136	H	GLU	73	4.363	1.802	-2.540	1.00	0.00

ATOM	1137	CA	GLU	73	5.432	2.753	-4.087	1.00	0.00
ATOM	1138	HA	GLU	73	6.202	2.248	-4.671	1.00	0.00
ATOM	1139	CB	GLU	73	4.103	2.680	-4.859	1.00	0.00
ATOM	1140	HB2	GLU	73	3.341	2.239	-4.217	1.00	0.00
ATOM	1141	HB3	GLU	73	3.800	3.688	-5.142	1.00	0.00
ATOM	1142	CG	GLU	73	4.267	1.818	-6.127	1.00	0.00
ATOM	1143	HG2	GLU	73	5.302	1.689	-6.443	1.00	0.00
ATOM	1144	HG3	GLU	73	3.863	0.858	-5.806	1.00	0.00
ATOM	1145	CD	GLU	73	3.439	2.353	-7.299	1.00	0.00
ATOM	1146	OE1	GLU	73	2.305	2.814	-7.033	1.00	0.00
ATOM	1147	OE2	GLU	73	4.006	2.423	-8.412	1.00	0.00
ATOM	1148	C	GLU	73	5.929	4.190	-3.931	1.00	0.00
ATOM	1149	O	GLU	73	6.054	4.718	-2.813	1.00	0.00
ATOM	1150	N	PRO	74	6.154	4.882	-5.058	1.00	0.00
ATOM	1151	CD	PRO	74	5.998	4.396	-6.421	1.00	0.00
ATOM	1152	HD2	PRO	74	4.934	4.211	-6.570	1.00	0.00
ATOM	1153	HD3	PRO	74	6.543	3.455	-6.484	1.00	0.00
ATOM	1154	CG	PRO	74	6.542	5.441	-7.368	1.00	0.00
ATOM	1155	HG2	PRO	74	5.737	5.823	-7.997	1.00	0.00
ATOM	1156	HG3	PRO	74	7.315	5.000	-7.998	1.00	0.00
ATOM	1157	CB	PRO	74	7.121	6.534	-6.483	1.00	0.00
ATOM	1158	HB2	PRO	74	6.805	7.518	-6.830	1.00	0.00

ATOM	1159	HB3 PRO	74	8.210	6.486	-6.474	1.00	0.00
ATOM	1160	CA PRO	74	6.571	6.276	-5.069	1.00	0.00
ATOM	1161	HA PRO	74	7.391	6.389	-4.361	1.00	0.00
ATOM	1162	C PRO	74	5.432	7.228	-4.687	1.00	0.00
ATOM	1163	O PRO	74	5.271	8.298	-5.274	1.00	0.00
ATOM	1164	N MET	75	4.657	6.859	-3.675	1.00	0.00
ATOM	1165	H MET	75	4.851	5.978	-3.222	1.00	0.00
ATOM	1166	CA MET	75	3.549	7.640	-3.201	1.00	0.00
ATOM	1167	HA MET	75	3.870	8.650	-2.945	1.00	0.00
ATOM	1168	CB MET	75	2.503	7.727	-4.314	1.00	0.00
ATOM	1169	HB2 MET	75	3.001	7.652	-5.281	1.00	0.00
ATOM	1170	HB3 MET	75	1.794	6.907	-4.206	1.00	0.00
ATOM	1171	CG MET	75	1.761	9.052	-4.228	1.00	0.00
ATOM	1172	HG2 MET	75	2.017	9.543	-3.289	1.00	0.00
ATOM	1173	HG3 MET	75	2.065	9.685	-5.063	1.00	0.00
ATOM	1174	SD MET	75	-0.034	8.796	-4.297	1.00	0.00
ATOM	1175	CE MET	75	-0.438	9.969	-5.600	1.00	0.00
ATOM	1176	HE1 MET	75	0.091	9.696	-6.513	1.00	0.00
ATOM	1177	HE2 MET	75	-1.512	9.953	-5.785	1.00	0.00
ATOM	1178	HE3 MET	75	-0.138	10.971	-5.294	1.00	0.00
ATOM	1179	C MET	75	2.943	6.996	-1.962	1.00	0.00
ATOM	1180	O MET	75	1.737	7.045	-1.766	1.00	0.00

ATOM	1181	N	TRP	76	3.754	6.333	-1.147	1.00	0.00
ATOM	1182	H	TRP	76	4.721	6.211	-1.412	1.00	0.00
ATOM	1183	CA	TRP	76	3.289	5.696	0.064	1.00	0.00
ATOM	1184	HA	TRP	76	2.464	6.263	0.494	1.00	0.00
ATOM	1185	CB	TRP	76	2.800	4.287	-0.253	1.00	0.00
ATOM	1186	HB2	TRP	76	3.475	3.855	-0.993	1.00	0.00
ATOM	1187	HB3	TRP	76	2.789	3.660	0.638	1.00	0.00
ATOM	1188	CG	TRP	76	1.425	4.223	-0.839	1.00	0.00
ATOM	1189	CD1	TRP	76	1.045	3.667	-2.006	1.00	0.00
ATOM	1190	HD1	TRP	76	1.820	3.192	-2.608	1.00	0.00
ATOM	1191	NE1	TRP	76	-0.311	3.836	-2.183	1.00	0.00
ATOM	1192	HE1	TRP	76	-0.810	3.473	-2.983	1.00	0.00
ATOM	1193	CE2	TRP	76	-0.869	4.531	-1.149	1.00	0.00
ATOM	1194	CZ2	TRP	76	-2.164	4.942	-0.870	1.00	0.00
ATOM	1195	HZ2	TRP	76	-2.950	4.712	-1.589	1.00	0.00
ATOM	1196	CH2	TRP	76	-2.376	5.631	0.325	1.00	0.00
ATOM	1197	HH2	TRP	76	-3.386	5.957	0.572	1.00	0.00
ATOM	1198	CZ3	TRP	76	-1.339	5.916	1.210	1.00	0.00
ATOM	1199	HZ3	TRP	76	-1.502	6.470	2.134	1.00	0.00
ATOM	1200	CE3	TRP	76	-0.046	5.490	0.923	1.00	0.00
ATOM	1201	HE3	TRP	76	0.719	5.695	1.671	1.00	0.00
ATOM	1202	CD2	TRP	76	0.218	4.795	-0.275	1.00	0.00



ATOM	1203	C	TRP	76	4.393	5.721	1.098	1.00	0.00
ATOM	1204	O	TRP	76	5.164	4.773	1.230	1.00	0.00
ATOM	1205	N	ILE	77	4.516	6.840	1.815	1.00	0.00
ATOM	1206	H	ILE	77	3.861	7.591	1.650	1.00	0.00
ATOM	1207	CA	ILE	77	5.618	7.073	2.749	1.00	0.00
ATOM	1208	HA	ILE	77	6.218	6.175	2.893	1.00	0.00
ATOM	1209	CB	ILE	77	6.533	8.239	2.335	1.00	0.00
ATOM	1210	HB	ILE	77	6.113	9.177	2.700	1.00	0.00
ATOM	1211	CG2	ILE	77	7.935	8.036	2.937	1.00	0.00
ATOM	1212	HG21	ILE	77	8.356	7.100	2.571	1.00	0.00
ATOM	1213	HG22	ILE	77	8.581	8.864	2.642	1.00	0.00
ATOM	1214	HG23	ILE	77	7.863	8.002	4.024	1.00	0.00
ATOM	1215	CG1	ILE	77	6.585	8.432	0.818	1.00	0.00
ATOM	1216	HG12	ILE	77	5.599	8.757	0.486	1.00	0.00
ATOM	1217	HG13	ILE	77	7.315	9.212	0.602	1.00	0.00
ATOM	1218	CD1	ILE	77	6.975	7.151	0.079	1.00	0.00
ATOM	1219	HD11	ILE	77	6.245	6.371	0.293	1.00	0.00
ATOM	1220	HD12	ILE	77	6.997	7.343	-0.994	1.00	0.00
ATOM	1221	HD13	ILE	77	7.961	6.826	0.410	1.00	0.00
ATOM	1222	C	ILE	77	5.029	7.265	4.116	1.00	0.00
ATOM	1223	O	ILE	77	4.090	6.593	4.480	1.00	0.00
ATOM	1224	N	ARG	78	5.526	8.177	4.921	1.00	0.00

ATOM	1225	H	ARG	78	6.308	8.723	4.589	1.00	0.00
ATOM	1226	CA	ARG	78	4.999	8.465	6.226	1.00	0.00
ATOM	1227	HA	ARG	78	5.221	7.637	6.898	1.00	0.00
ATOM	1228	CB	ARG	78	5.611	9.731	6.798	1.00	0.00
ATOM	1229	HB2	ARG	78	5.871	10.403	5.979	1.00	0.00
ATOM	1230	HB3	ARG	78	4.883	10.217	7.448	1.00	0.00
ATOM	1231	CG	ARG	78	6.867	9.397	7.600	1.00	0.00
ATOM	1232	HG2	ARG	78	6.856	9.968	8.528	1.00	0.00
ATOM	1233	HG3	ARG	78	6.867	8.332	7.828	1.00	0.00
ATOM	1234	CD	ARG	78	8.124	9.747	6.803	1.00	0.00
ATOM	1235	HD2	ARG	78	8.042	9.338	5.796	1.00	0.00
ATOM	1236	HD3	ARG	78	8.229	10.831	6.746	1.00	0.00
ATOM	1237	NE	ARG	78	9.325	9.190	7.441	1.00	0.00
ATOM	1238	HE	ARG	78	9.175	8.675	8.296	1.00	0.00
ATOM	1239	CZ	ARG	78	10.561	9.342	7.006	1.00	0.00
ATOM	1240	NH1	ARG	78	10.805	10.006	5.906	1.00	0.00
ATOM	1241	HH11	ARG	78	10.041	10.408	5.382	1.00	0.00
ATOM	1242	HH12	ARG	78	11.757	10.114	5.585	1.00	0.00
ATOM	1243	NH2	ARG	78	11.561	8.797	7.649	1.00	0.00
ATOM	1244	HH21	ARG	78	11.386	8.257	8.483	1.00	0.00
ATOM	1245	HH22	ARG	78	12.504	8.920	7.307	1.00	0.00
ATOM	1246	C	ARG	78	3.520	8.705	6.208	1.00	0.00

ATOM	1247	O	ARG	78	2.917	8.286	7.168	1.00	0.00
ATOM	1248	N	MET	79	2.967	9.241	5.124	1.00	0.00
ATOM	1249	H	MET	79	3.596	9.549	4.396	1.00	0.00
ATOM	1250	CA	MET	79	1.545	9.393	4.910	1.00	0.00
ATOM	1251	HA	MET	79	1.162	10.181	5.558	1.00	0.00
ATOM	1252	CB	MET	79	1.244	9.764	3.462	1.00	0.00
ATOM	1253	HB2	MET	79	0.172	9.657	3.296	1.00	0.00
ATOM	1254	HB3	MET	79	1.533	10.804	3.307	1.00	0.00
ATOM	1255	CG	MET	79	2.005	8.870	2.475	1.00	0.00
ATOM	1256	HG2	MET	79	2.727	8.300	3.059	1.00	0.00
ATOM	1257	HG3	MET	79	1.274	8.190	2.038	1.00	0.00
ATOM	1258	SD	MET	79	2.857	9.730	1.170	1.00	0.00
ATOM	1259	CE	MET	79	1.772	9.323	-0.190	1.00	0.00
ATOM	1260	HE1	MET	79	0.771	9.700	0.018	1.00	0.00
ATOM	1261	HE2	MET	79	2.149	9.781	-1.106	1.00	0.00
ATOM	1262	HE3	MET	79	1.734	8.241	-0.314	1.00	0.00
ATOM	1263	C	MET	79	0.803	8.113	5.194	1.00	0.00
ATOM	1264	O	MET	79	-0.313	8.167	5.630	1.00	0.00
ATOM	1265	N	ARG	80	1.418	6.945	5.076	1.00	0.00
ATOM	1266	H	ARG	80	2.314	6.946	4.609	1.00	0.00
ATOM	1267	CA	ARG	80	0.869	5.698	5.478	1.00	0.00
ATOM	1268	HA	ARG	80	-0.060	5.536	4.931	1.00	0.00

ATOM	1269	CB	ARG	80	1.791	4.537	5.214	1.00	0.00
ATOM	1270	HB2	ARG	80	2.709	4.681	5.784	1.00	0.00
ATOM	1271	HB3	ARG	80	1.302	3.619	5.539	1.00	0.00
ATOM	1272	CG	ARG	80	2.126	4.436	3.730	1.00	0.00
ATOM	1273	HG2	ARG	80	1.296	3.967	3.202	1.00	0.00
ATOM	1274	HG3	ARG	80	2.294	5.435	3.327	1.00	0.00
ATOM	1275	CD	ARG	80	3.385	3.596	3.545	1.00	0.00
ATOM	1276	HD2	ARG	80	3.116	2.556	3.723	1.00	0.00
ATOM	1277	HD3	ARG	80	3.711	3.715	2.511	1.00	0.00
ATOM	1278	NE	ARG	80	4.494	3.951	4.429	1.00	0.00
ATOM	1279	HE	ARG	80	4.438	4.899	4.773	1.00	0.00
ATOM	1280	CZ	ARG	80	5.505	3.215	4.796	1.00	0.00
ATOM	1281	NH1	ARG	80	5.620	2.004	4.342	1.00	0.00
ATOM	1282	HH11	ARG	80	4.926	1.639	3.706	1.00	0.00
ATOM	1283	HH12	ARG	80	6.404	1.434	4.626	1.00	0.00
ATOM	1284	NH2	ARG	80	6.395	3.693	5.629	1.00	0.00
ATOM	1285	HH21	ARG	80	6.295	4.633	5.985	1.00	0.00
ATOM	1286	HH22	ARG	80	7.177	3.120	5.911	1.00	0.00
ATOM	1287	C	ARG	80	0.474	5.722	6.916	1.00	0.00
ATOM	1288	O	ARG	80	-0.244	4.836	7.232	1.00	0.00
ATOM	1289	N	ASP	81	0.812	6.671	7.756	1.00	0.00
ATOM	1290	H	ASP	81	1.352	7.414	7.335	1.00	0.00

ATOM	1291	CA	ASP	81	0.482	6.774	9.163	1.00	0.00
ATOM	1292	HA	ASP	81	1.218	6.244	9.767	1.00	0.00
ATOM	1293	CB	ASP	81	0.485	8.244	9.570	1.00	0.00
ATOM	1294	HB2	ASP	81	1.283	8.734	9.010	1.00	0.00
ATOM	1295	HB3	ASP	81	-0.473	8.688	9.299	1.00	0.00
ATOM	1296	CG	ASP	81	0.726	8.428	11.065	1.00	0.00
ATOM	1297	OD1	ASP	81	0.982	7.424	11.763	1.00	0.00
ATOM	1298	OD2	ASP	81	0.629	9.591	11.497	1.00	0.00
ATOM	1299	C	ASP	81	-0.913	6.216	9.444	1.00	0.00
ATOM	1300	O	ASP	81	-1.089	5.246	10.175	1.00	0.00
ATOM	1301	N	GLN	82	-1.892	6.702	8.670	1.00	0.00
ATOM	1302	H	GLN	82	-1.687	7.448	8.020	1.00	0.00
ATOM	1303	CA	GLN	82	-3.248	6.249	8.780	1.00	0.00
ATOM	1304	HA	GLN	82	-3.463	6.048	9.829	1.00	0.00
ATOM	1305	CB	GLN	82	-4.248	7.260	8.267	1.00	0.00
ATOM	1306	HB2	GLN	82	-3.733	7.964	7.613	1.00	0.00
ATOM	1307	HB3	GLN	82	-5.019	6.737	7.701	1.00	0.00
ATOM	1308	CG	GLN	82	-4.889	8.015	9.418	1.00	0.00
ATOM	1309	HG2	GLN	82	-5.795	8.490	9.041	1.00	0.00
ATOM	1310	HG3	GLN	82	-5.148	7.322	10.218	1.00	0.00
ATOM	1311	CD	GLN	82	-3.977	9.090	9.983	1.00	0.00
ATOM	1312	OE1	GLN	82	-4.218	10.273	9.846	1.00	0.00

ATOM	1313	NE2	GLN	82	-2.895	8.690	10.608	1.00	0.00
ATOM	1314	HE21	GLN	82	-2.260	9.372	10.999	1.00	0.00
ATOM	1315	HE22	GLN	82	-2.701	7.703	10.694	1.00	0.00
ATOM	1316	C	GLN	82	-3.454	4.965	8.078	1.00	0.00
ATOM	1317	O	GLN	82	-3.543	3.988	8.802	1.00	0.00
ATOM	1318	N	VAL	83	-3.638	4.983	6.751	1.00	0.00
ATOM	1319	H	VAL	83	-3.785	5.900	6.353	1.00	0.00
ATOM	1320	CA	VAL	83	-3.711	3.836	5.874	1.00	0.00
ATOM	1321	HA	VAL	83	-4.724	3.446	5.780	1.00	0.00
ATOM	1322	CB	VAL	83	-3.166	4.110	4.483	1.00	0.00
ATOM	1323	HB	VAL	83	-4.015	4.211	3.807	1.00	0.00
ATOM	1324	CG1	VAL	83	-2.328	5.348	4.418	1.00	0.00
ATOM	1325	HG11	VAL	83	-1.478	5.248	5.092	1.00	0.00
ATOM	1326	HG12	VAL	83	-1.967	5.491	3.399	1.00	0.00
ATOM	1327	HG13	VAL	83	-2.927	6.209	4.714	1.00	0.00
ATOM	1328	CG2	VAL	83	-2.402	2.947	3.920	1.00	0.00
ATOM	1329	HG21	VAL	83	-3.057	2.078	3.856	1.00	0.00
ATOM	1330	HG22	VAL	83	-2.036	3.200	2.924	1.00	0.00
ATOM	1331	HG23	VAL	83	-1.557	2.718	4.569	1.00	0.00
ATOM	1332	C	VAL	83	-2.990	2.646	6.463	1.00	0.00
ATOM	1333	O	VAL	83	-3.573	1.606	6.541	1.00	0.00
ATOM	1334	N	MET	84	-1.760	2.734	6.910	1.00	0.00

ATOM	1335	H	MET	84	-1.299	3.609	6.703	1.00	0.00
ATOM	1336	CA	MET	84	-1.021	1.724	7.625	1.00	0.00
ATOM	1337	HA	MET	84	-0.593	1.010	6.922	1.00	0.00
ATOM	1338	CB	MET	84	0.106	2.361	8.416	1.00	0.00
ATOM	1339	HB2	MET	84	0.805	2.815	7.713	1.00	0.00
ATOM	1340	HB3	MET	84	-0.318	3.135	9.055	1.00	0.00
ATOM	1341	CG	MET	84	0.837	1.344	9.271	1.00	0.00
ATOM	1342	HG2	MET	84	0.116	0.890	9.949	1.00	0.00
ATOM	1343	HG3	MET	84	1.248	0.579	8.612	1.00	0.00
ATOM	1344	SD	MET	84	2.175	2.080	10.233	1.00	0.00
ATOM	1345	CE	MET	84	1.277	3.511	10.915	1.00	0.00
ATOM	1346	HE1	MET	84	0.433	3.162	11.509	1.00	0.00
ATOM	1347	HE2	MET	84	1.948	4.095	11.545	1.00	0.00
ATOM	1348	HE3	MET	84	0.912	4.135	10.098	1.00	0.00
ATOM	1349	C	MET	84	-1.894	0.932	8.585	1.00	0.00
ATOM	1350	O	MET	84	-2.086	-0.267	8.386	1.00	0.00
ATOM	1351	N	SER	85	-2.458	1.598	9.594	1.00	0.00
ATOM	1352	H	SER	85	-2.164	2.550	9.761	1.00	0.00
ATOM	1353	CA	SER	85	-3.409	1.001	10.510	1.00	0.00
ATOM	1354	HA	SER	85	-3.146	-0.040	10.695	1.00	0.00
ATOM	1355	CB	SER	85	-3.395	1.748	11.833	1.00	0.00
ATOM	1356	HB2	SER	85	-2.369	1.974	12.123	1.00	0.00

ATOM	1357	HB3	SER	85	-3.959	2.677	11.743	1.00	0.00
ATOM	1358	OG	SER	85	-3.994	0.924	12.819	1.00	0.00
ATOM	1359	HG	SER	85	-3.993	1.383	13.662	1.00	0.00
ATOM	1360	C	SER	85	-4.829	0.951	9.930	1.00	0.00
ATOM	1361	O	SER	85	-5.819	1.056	10.641	1.00	0.00
ATOM	1362	N	MET	86	-4.958	0.647	8.647	1.00	0.00
ATOM	1363	H	MET	86	-4.113	0.476	8.121	1.00	0.00
ATOM	1364	CA	MET	86	-6.222	0.561	7.957	1.00	0.00
ATOM	1365	HA	MET	86	-7.006	0.223	8.634	1.00	0.00
ATOM	1366	CB	MET	86	-6.592	1.931	7.436	1.00	0.00
ATOM	1367	HB2	MET	86	-5.672	2.437	7.141	1.00	0.00
ATOM	1368	HB3	MET	86	-7.228	1.796	6.561	1.00	0.00
ATOM	1369	CG	MET	86	-7.321	2.770	8.465	1.00	0.00
ATOM	1370	HG2	MET	86	-6.692	2.894	9.346	1.00	0.00
ATOM	1371	HG3	MET	86	-7.550	3.749	8.042	1.00	0.00
ATOM	1372	SD	MET	86	-8.862	1.954	8.944	1.00	0.00
ATOM	1373	CE	MET	86	-9.300	2.992	10.349	1.00	0.00
ATOM	1374	HE1	MET	86	-9.419	4.024	10.016	1.00	0.00
ATOM	1375	HE2	MET	86	-10.236	2.641	10.783	1.00	0.00
ATOM	1376	HE3	MET	86	-8.510	2.942	11.098	1.00	0.00
ATOM	1377	C	MET	86	-6.183	-0.408	6.793	1.00	0.00
ATOM	1378	O	MET	86	-6.997	-1.308	6.725	1.00	0.00



ATOM	1379	N	ALA	87	-5.164	-0.371	5.959	1.00	0.00
ATOM	1380	H	ALA	87	-4.530	0.403	6.095	1.00	0.00
ATOM	1381	CA	ALA	87	-4.912	-1.269	4.880	1.00	0.00
ATOM	1382	HA	ALA	87	-5.838	-1.529	4.367	1.00	0.00
ATOM	1383	CB	ALA	87	-3.968	-0.612	3.877	1.00	0.00
ATOM	1384	HB1	ALA	87	-3.032	-0.353	4.373	1.00	0.00
ATOM	1385	HB2	ALA	87	-3.766	-1.304	3.059	1.00	0.00
ATOM	1386	HB3	ALA	87	-4.430	0.292	3.480	1.00	0.00
ATOM	1387	C	ALA	87	-4.336	-2.559	5.428	1.00	0.00
ATOM	1388	O	ALA	87	-3.937	-3.401	4.659	1.00	0.00
ATOM	1389	N	HIE	88	-4.213	-2.724	6.737	1.00	0.00
ATOM	1390	H	HIE	88	-4.394	-1.932	7.337	1.00	0.00
ATOM	1391	CA	HIE	88	-3.766	-3.948	7.341	1.00	0.00
ATOM	1392	HA	HIE	88	-3.237	-4.567	6.616	1.00	0.00
ATOM	1393	CB	HIE	88	-2.811	-3.603	8.475	1.00	0.00
ATOM	1394	HB2	HIE	88	-2.188	-4.467	8.703	1.00	0.00
ATOM	1395	HB3	HIE	88	-2.179	-2.775	8.153	1.00	0.00
ATOM	1396	CG	HIE	88	-3.453	-3.178	9.775	1.00	0.00
ATOM	1397	ND1	HIE	88	-3.179	-3.733	11.006	1.00	0.00
ATOM	1398	CE1	HIE	88	-3.912	-3.072	11.931	1.00	0.00
ATOM	1399	HE1	HIE	88	-3.817	-3.336	12.984	1.00	0.00
ATOM	1400	NE2	HIE	88	-4.679	-2.138	11.313	1.00	0.00

ATOM	1401	HE2 HIE	88	-5.337	-1.499	11.735	1.00	0.00
ATOM	1402	CD2 HIE	88	-4.400	-2.209	9.962	1.00	0.00
ATOM	1403	HD2 HIE	88	-4.915	-1.549	9.263	1.00	0.00
ATOM	1404	C HIE	88	-4.953	-4.754	7.806	1.00	0.00
ATOM	1405	O HIE	88	-4.816	-5.938	7.976	1.00	0.00
ATOM	1406	N ASN	89	-6.084	-4.114	8.083	1.00	0.00
ATOM	1407	H ASN	89	-6.093	-3.107	7.997	1.00	0.00
ATOM	1408	CA ASN	89	-7.304	-4.779	8.475	1.00	0.00
ATOM	1409	HA ASN	89	-7.093	-5.809	8.760	1.00	0.00
ATOM	1410	CB ASN	89	-7.927	-4.062	9.665	1.00	0.00
ATOM	1411	HB2 ASN	89	-7.692	-2.998	9.618	1.00	0.00
ATOM	1412	HB3 ASN	89	-9.009	-4.195	9.657	1.00	0.00
ATOM	1413	CG ASN	89	-7.382	-4.619	10.954	1.00	0.00
ATOM	1414	OD1 ASN	89	-8.061	-4.984	11.879	1.00	0.00
ATOM	1415	ND2 ASN	89	-6.080	-4.693	11.041	1.00	0.00
ATOM	1416	HD21 ASN	89	-5.653	-5.057	11.880	1.00	0.00
ATOM	1417	HD22 ASN	89	-5.507	-4.385	10.268	1.00	0.00
ATOM	1418	C ASN	89	-8.306	-4.754	7.348	1.00	0.00
ATOM	1419	O ASN	89	-9.164	-5.593	7.328	1.00	0.00
ATOM	1420	N LEU	90	-8.202	-3.825	6.407	1.00	0.00
ATOM	1421	H LEU	90	-7.534	-3.080	6.548	1.00	0.00
ATOM	1422	CA LEU	90	-9.046	-3.776	5.230	1.00	0.00

ATOM	1423	HA	LEU	90	-10.095	-3.720	5.519	1.00	0.00
ATOM	1424	CB	LEU	90	-8.700	-2.532	4.401	1.00	0.00
ATOM	1425	HB2	LEU	90	-7.631	-2.370	4.540	1.00	0.00
ATOM	1426	HB3	LEU	90	-8.901	-2.742	3.350	1.00	0.00
ATOM	1427	CG	LEU	90	-9.463	-1.278	4.824	1.00	0.00
ATOM	1428	HG	LEU	90	-9.486	-1.221	5.912	1.00	0.00
ATOM	1429	CD1	LEU	90	-8.772	-0.030	4.262	1.00	0.00
ATOM	1430	HD11	LEU	90	-8.749	-0.085	3.173	1.00	0.00
ATOM	1431	HD12	LEU	90	-9.322	0.860	4.568	1.00	0.00
ATOM	1432	HD13	LEU	90	-7.752	0.025	4.644	1.00	0.00
ATOM	1433	CD2	LEU	90	-10.906	-1.358	4.334	1.00	0.00
ATOM	1434	HD21	LEU	90	-11.389	-2.234	4.765	1.00	0.00
ATOM	1435	HD22	LEU	90	-11.444	-0.460	4.639	1.00	0.00
ATOM	1436	HD23	LEU	90	-10.917	-1.435	3.246	1.00	0.00
ATOM	1437	C	LEU	90	-8.918	-5.057	4.403	1.00	0.00
ATOM	1438	O	LEU	90	-9.921	-5.675	4.069	1.00	0.00
ATOM	1439	N	PRO	91	-7.684	-5.480	4.076	1.00	0.00
ATOM	1440	CD	PRO	91	-6.424	-4.866	4.418	1.00	0.00
ATOM	1441	HD2	PRO	91	-6.313	-4.944	5.499	1.00	0.00
ATOM	1442	HD3	PRO	91	-6.493	-3.815	4.136	1.00	0.00
ATOM	1443	CG	PRO	91	-5.335	-5.590	3.671	1.00	0.00
ATOM	1444	HG2	PRO	91	-4.658	-6.060	4.384	1.00	0.00

ATOM	1445	HG3 PRO	91	-4.780	-4.877	3.059	1.00	0.00
ATOM	1446	CB PRO	91	-6.023	-6.612	2.812	1.00	0.00
ATOM	1447	HB2 PRO	91	-5.524	-7.569	2.959	1.00	0.00
ATOM	1448	HB3 PRO	91	-6.025	-6.364	1.750	1.00	0.00
ATOM	1449	CA PRO	91	-7.452	-6.687	3.331	1.00	0.00
ATOM	1450	HA PRO	91	-8.157	-6.737	2.501	1.00	0.00
ATOM	1451	C PRO	91	-7.639	-7.890	4.223	1.00	0.00
ATOM	1452	O PRO	91	-8.153	-8.888	3.777	1.00	0.00
ATOM	1453	N ILE	92	-7.263	-7.843	5.481	1.00	0.00
ATOM	1454	H ILE	92	-6.776	-7.028	5.826	1.00	0.00
ATOM	1455	CA ILE	92	-7.470	-8.953	6.385	1.00	0.00
ATOM	1456	HA ILE	92	-7.111	-9.912	6.011	1.00	0.00
ATOM	1457	CB ILE	92	-6.782	-8.634	7.706	1.00	0.00
ATOM	1458	HB ILE	92	-6.815	-7.556	7.864	1.00	0.00
ATOM	1459	CG2 ILE	92	-7.473	-9.344	8.876	1.00	0.00
ATOM	1460	HG21 ILE	92	-7.440	-10.422	8.718	1.00	0.00
ATOM	1461	HG22 ILE	92	-6.960	-9.097	9.805	1.00	0.00
ATOM	1462	HG23 ILE	92	-8.511	-9.018	8.937	1.00	0.00
ATOM	1463	CG1 ILE	92	-5.292	-8.961	7.627	1.00	0.00
ATOM	1464	HG12 ILE	92	-5.166	-9.703	6.839	1.00	0.00
ATOM	1465	HG13 ILE	92	-4.774	-8.043	7.347	1.00	0.00
ATOM	1466	CD1 ILE	92	-4.709	-9.495	8.923	1.00	0.00

ATOM	1467	HD11	ILE	92	-5.225	-10.412	9.203	1.00	0.00
ATOM	1468	HD12	ILE	92	-3.648	-9.703	8.786	1.00	0.00
ATOM	1469	HD13	ILE	92	-4.834	-8.752	9.711	1.00	0.00
ATOM	1470	C	ILE	92	-8.946	-9.232	6.586	1.00	0.00
ATOM	1471	O	ILE	92	-9.332	-10.390	6.530	1.00	0.00
ATOM	1472	N	GLU	93	-9.747	-8.193	6.783	1.00	0.00
ATOM	1473	H	GLU	93	-9.346	-7.267	6.831	1.00	0.00
ATOM	1474	CA	GLU	93	-11.185	-8.333	6.961	1.00	0.00
ATOM	1475	HA	GLU	93	-11.387	-9.034	7.770	1.00	0.00
ATOM	1476	CB	GLU	93	-11.825	-6.983	7.310	1.00	0.00
ATOM	1477	HB2	GLU	93	-11.300	-6.196	6.767	1.00	0.00
ATOM	1478	HB3	GLU	93	-12.870	-7.001	7.000	1.00	0.00
ATOM	1479	CG	GLU	93	-11.743	-6.706	8.819	1.00	0.00
ATOM	1480	HG2	GLU	93	-11.351	-7.600	9.304	1.00	0.00
ATOM	1481	HG3	GLU	93	-11.071	-5.868	9.004	1.00	0.00
ATOM	1482	CD	GLU	93	-13.127	-6.384	9.385	1.00	0.00
ATOM	1483	OE1	GLU	93	-13.746	-5.421	8.872	1.00	0.00
ATOM	1484	OE2	GLU	93	-13.539	-7.086	10.333	1.00	0.00
ATOM	1485	C	GLU	93	-11.836	-8.883	5.694	1.00	0.00
ATOM	1486	O	GLU	93	-12.935	-9.422	5.742	1.00	0.00
ATOM	1487	N	CYX	94	-11.143	-8.762	4.558	1.00	0.00
ATOM	1488	H	CYX	94	-10.311	-8.188	4.544	1.00	0.00

ATOM	1489	CA	CYX	94	-11.582	-9.355	3.323	1.00	0.00
ATOM	1490	HA	CYX	94	-12.667	-9.458	3.317	1.00	0.00
ATOM	1491	CB	CYX	94	-11.172	-8.462	2.156	1.00	0.00
ATOM	1492	HB2	CYX	94	-10.230	-7.966	2.390	1.00	0.00
ATOM	1493	HB3	CYX	94	-11.049	-9.069	1.259	1.00	0.00
ATOM	1494	SG	CYX	94	-12.434	-7.212	1.759	1.00	0.00
ATOM	1495	C	CYX	94	-11.046	-10.762	3.158	1.00	0.00
ATOM	1496	O	CYX	94	-11.498	-11.412	2.222	1.00	0.00
ATOM	1497	N	ASN	95	-10.084	-11.187	3.992	1.00	0.00
ATOM	1498	H	ASN	95	-9.769	-10.506	4.668	1.00	0.00
ATOM	1499	CA	ASN	95	-9.439	-12.489	3.973	1.00	0.00
ATOM	1500	HA	ASN	95	-8.998	-12.705	4.946	1.00	0.00
ATOM	1501	CB	ASN	95	-10.474	-13.572	3.653	1.00	0.00
ATOM	1502	HB2	ASN	95	-11.419	-13.261	4.097	1.00	0.00
ATOM	1503	HB3	ASN	95	-10.600	-13.688	2.576	1.00	0.00
ATOM	1504	CG	ASN	95	-10.082	-14.899	4.237	1.00	0.00
ATOM	1505	OD1	ASN	95	-10.819	-15.495	4.995	1.00	0.00
ATOM	1506	ND2	ASN	95	-8.895	-15.366	3.933	1.00	0.00
ATOM	1507	HD21	ASN	95	-8.595	-16.255	4.306	1.00	0.00
ATOM	1508	HD22	ASN	95	-8.286	-14.834	3.327	1.00	0.00
ATOM	1509	C	ASN	95	-8.300	-12.461	2.935	1.00	0.00
ATOM	1510	O	ASN	95	-7.941	-13.439	2.303	1.00	0.00

ATOM	1511	N	LEU	96	-7.763	-11.307	2.618	1.00	0.00
ATOM	1512	H	LEU	96	-8.145	-10.475	3.044	1.00	0.00
ATOM	1513	CA	LEU	96	-6.740	-11.153	1.623	1.00	0.00
ATOM	1514	HA	LEU	96	-6.911	-11.864	0.815	1.00	0.00
ATOM	1515	CB	LEU	96	-6.740	-9.752	1.043	1.00	0.00
ATOM	1516	HB2	LEU	96	-6.326	-9.159	1.858	1.00	0.00
ATOM	1517	HB3	LEU	96	-6.082	-9.685	0.176	1.00	0.00
ATOM	1518	CG	LEU	96	-8.124	-9.216	0.675	1.00	0.00
ATOM	1519	HG	LEU	96	-8.773	-9.285	1.547	1.00	0.00
ATOM	1520	CD1	LEU	96	-8.036	-7.781	0.229	1.00	0.00
ATOM	1521	HD11	LEU	96	-7.387	-7.710	-0.644	1.00	0.00
ATOM	1522	HD12	LEU	96	-9.031	-7.418	-0.029	1.00	0.00
ATOM	1523	HD13	LEU	96	-7.626	-7.173	1.035	1.00	0.00
ATOM	1524	CD2	LEU	96	-8.825	-10.078	-0.355	1.00	0.00
ATOM	1525	HD21	LEU	96	-8.950	-11.086	0.038	1.00	0.00
ATOM	1526	HD22	LEU	96	-9.803	-9.652	-0.581	1.00	0.00
ATOM	1527	HD23	LEU	96	-8.227	-10.115	-1.266	1.00	0.00
ATOM	1528	C	LEU	96	-5.440	-11.552	2.274	1.00	0.00
ATOM	1529	O	LEU	96	-4.887	-12.568	1.905	1.00	0.00
ATOM	1530	N	MET	97	-5.058	-10.849	3.338	1.00	0.00
ATOM	1531	H	MET	97	-5.629	-10.067	3.625	1.00	0.00
ATOM	1532	CA	MET	97	-3.830	-11.101	4.055	1.00	0.00

ATOM	1533	HA	MET	97	-3.319	-11.968	3.638	1.00	0.00
ATOM	1534	CB	MET	97	-2.915	-9.891	3.930	1.00	0.00
ATOM	1535	HB2	MET	97	-1.944	-10.156	4.347	1.00	0.00
ATOM	1536	HB3	MET	97	-2.804	-9.659	2.870	1.00	0.00
ATOM	1537	CG	MET	97	-3.462	-8.680	4.657	1.00	0.00
ATOM	1538	HG2	MET	97	-3.610	-7.885	3.925	1.00	0.00
ATOM	1539	HG3	MET	97	-4.422	-8.953	5.094	1.00	0.00
ATOM	1540	SD	MET	97	-2.359	-8.087	5.966	1.00	0.00
ATOM	1541	CE	MET	97	-0.886	-7.805	4.961	1.00	0.00
ATOM	1542	HE1	MET	97	-1.109	-7.071	4.186	1.00	0.00
ATOM	1543	HE2	MET	97	-0.080	-7.431	5.593	1.00	0.00
ATOM	1544	HE3	MET	97	-0.578	-8.741	4.495	1.00	0.00
ATOM	1545	C	MET	97	-4.059	-11.444	5.492	1.00	0.00
ATOM	1546	O	MET	97	-3.157	-11.175	6.276	1.00	0.00
ATOM	1547	N	SER	98	-5.260	-11.950	5.813	1.00	0.00
ATOM	1548	H	SER	98	-5.944	-12.050	5.076	1.00	0.00
ATOM	1549	CA	SER	98	-5.657	-12.288	7.177	1.00	0.00
ATOM	1550	HA	SER	98	-5.982	-11.385	7.695	1.00	0.00
ATOM	1551	CB	SER	98	-6.800	-13.290	7.183	1.00	0.00
ATOM	1552	HB2	SER	98	-7.074	-13.499	8.216	1.00	0.00
ATOM	1553	HB3	SER	98	-7.651	-12.850	6.663	1.00	0.00
ATOM	1554	OG	SER	98	-6.426	-14.497	6.540	1.00	0.00



ATOM	1555	HG	SER	98	-7.164	-15.110	6.557	1.00	0.00
ATOM	1556	C	SER	98	-4.495	-12.827	8.028	1.00	0.00
ATOM	1557	O	SER	98	-3.899	-12.192	8.886	1.00	0.00
ATOM	1558	N	GLN	99	-4.039	-14.013	7.713	1.00	0.00
ATOM	1559	H	GLN	99	-4.588	-14.584	7.086	1.00	0.00
ATOM	1560	CA	GLN	99	-2.831	-14.575	8.271	1.00	0.00
ATOM	1561	HA	GLN	99	-2.038	-13.834	8.376	1.00	0.00
ATOM	1562	CB	GLN	99	-3.225	-15.065	9.656	1.00	0.00
ATOM	1563	HB2	GLN	99	-4.229	-14.713	9.893	1.00	0.00
ATOM	1564	HB3	GLN	99	-3.208	-16.154	9.674	1.00	0.00
ATOM	1565	CG	GLN	99	-2.244	-14.526	10.683	1.00	0.00
ATOM	1566	HG2	GLN	99	-1.397	-15.209	10.737	1.00	0.00
ATOM	1567	HG3	GLN	99	-1.894	-13.536	10.388	1.00	0.00
ATOM	1568	CD	GLN	99	-2.877	-14.426	12.060	1.00	0.00
ATOM	1569	OE1	GLN	99	-3.957	-14.907	12.353	1.00	0.00
ATOM	1570	NE2	GLN	99	-2.201	-13.751	12.962	1.00	0.00
ATOM	1571	HE21	GLN	99	-2.572	-13.650	13.896	1.00	0.00
ATOM	1572	HE22	GLN	99	-1.313	-13.335	12.717	1.00	0.00
ATOM	1573	C	GLN	99	-2.262	-15.669	7.370	1.00	0.00
ATOM	1574	O	GLN	99	-2.076	-16.815	7.777	1.00	0.00
ATOM	1575	N	PRO	100	-2.025	-15.346	6.090	1.00	0.00
ATOM	1576	CD	PRO	100	-2.174	-14.050	5.458	1.00	0.00

ATOM	1577	HD2 PRO	100	-1.431	-13.384	5.897	1.00	0.00
ATOM	1578	HD3 PRO	100	-3.173	-13.684	5.693	1.00	0.00
ATOM	1579	CG PRO	100	-1.968	-14.250	3.975	1.00	0.00
ATOM	1580	HG2 PRO	100	-1.115	-13.653	3.652	1.00	0.00
ATOM	1581	HG3 PRO	100	-2.862	-13.919	3.445	1.00	0.00
ATOM	1582	CB PRO	100	-1.724	-15.728	3.754	1.00	0.00
ATOM	1583	HB2 PRO	100	-0.827	-15.846	3.146	1.00	0.00
ATOM	1584	HB3 PRO	100	-2.559	-16.235	3.271	1.00	0.00
ATOM	1585	CA PRO	100	-1.489	-16.320	5.152	1.00	0.00
ATOM	1586	HA PRO	100	-2.041	-17.254	5.254	1.00	0.00
ATOM	1587	C PRO	100	-0.007	-16.571	5.433	1.00	0.00
ATOM	1588	O PRO	100	0.378	-17.691	5.750	1.00	0.00
ATOM	1589	N CYX	101	0.825	-15.546	5.257	1.00	0.00
ATOM	1590	H CYX	101	0.473	-14.672	4.892	1.00	0.00
ATOM	1591	CA CYX	101	2.240	-15.663	5.500	1.00	0.00
ATOM	1592	HA CYX	101	2.618	-16.591	5.071	1.00	0.00
ATOM	1593	CB CYX	101	2.978	-14.491	4.855	1.00	0.00
ATOM	1594	HB2 CYX	101	2.993	-13.646	5.544	1.00	0.00
ATOM	1595	HB3 CYX	101	4.001	-14.788	4.622	1.00	0.00
ATOM	1596	SG CYX	101	2.230	-13.854	3.305	1.00	0.00
ATOM	1597	C CYX	101	2.462	-15.741	7.003	1.00	0.00
ATOM	1598	O CYX	101	1.994	-14.870	7.741	1.00	0.00

ATOM	1599	N	GLN	102	3.182	-16.762	7.438	1.00	0.00
ATOM	1600	H	GLN	102	3.480	-17.466	6.778	1.00	0.00
ATOM	1601	CA	GLN	102	3.502	-16.953	8.843	1.00	0.00
ATOM	1602	HA	GLN	102	3.186	-16.083	9.418	1.00	0.00
ATOM	1603	CB	GLN	102	2.780	-18.186	9.385	1.00	0.00
ATOM	1604	HB2	GLN	102	3.101	-19.060	8.818	1.00	0.00
ATOM	1605	HB3	GLN	102	3.045	-18.317	10.434	1.00	0.00
ATOM	1606	CG	GLN	102	1.262	-18.024	9.258	1.00	0.00
ATOM	1607	HG2	GLN	102	1.024	-16.971	9.410	1.00	0.00
ATOM	1608	HG3	GLN	102	0.922	-18.333	8.269	1.00	0.00
ATOM	1609	CD	GLN	102	0.529	-18.842	10.300	1.00	0.00
ATOM	1610	OE1	GLN	102	0.533	-18.539	11.480	1.00	0.00
ATOM	1611	NE2	GLN	102	-0.090	-19.924	9.886	1.00	0.00
ATOM	1612	HE21	GLN	102	-0.591	-20.499	10.547	1.00	0.00
ATOM	1613	HE22	GLN	102	-0.061	-20.175	8.908	1.00	0.00
ATOM	1614	C	GLN	102	5.006	-17.062	9.034	1.00	0.00
ATOM	1615	O	GLN	102	5.768	-16.917	8.073	1.00	0.00
ATOM	1616	N	MET	103	5.420	-17.239	10.287	1.00	0.00
ATOM	1617	H	MET	103	4.742	-17.176	11.033	1.00	0.00
ATOM	1618	CA	MET	103	6.820	-17.439	10.640	1.00	0.00
ATOM	1619	HA	MET	103	7.484	-17.040	9.872	1.00	0.00
ATOM	1620	CB	MET	103	7.072	-16.681	11.947	1.00	0.00

ATOM	1621	HB2 MET	103	6.210	-16.048	12.157	1.00	0.00
ATOM	1622	HB3 MET	103	7.197	-17.403	12.753	1.00	0.00
ATOM	1623	CG MET	103	8.327	-15.814	11.842	1.00	0.00
ATOM	1624	HG2 MET	103	8.661	-15.806	10.804	1.00	0.00
ATOM	1625	HG3 MET	103	8.078	-14.798	12.150	1.00	0.00
ATOM	1626	SD MET	103	9.661	-16.445	12.892	1.00	0.00
ATOM	1627	CE MET	103	9.978	-14.972	13.876	1.00	0.00
ATOM	1628	HE1 MET	103	9.074	-14.695	14.418	1.00	0.00
ATOM	1629	HE2 MET	103	10.779	-15.174	14.586	1.00	0.00
ATOM	1630	HE3 MET	103	10.273	-14.152	13.220	1.00	0.00
ATOM	1631	C MET	103	7.220	-18.925	10.758	1.00	0.00
ATOM	1632	O MET	103	6.338	-19.690	11.227	1.00	0.00
ATOM	1633	OXT MET	103	8.392	-19.200	10.402	1.00	0.00

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ATOM	1634	S1 LIG	104	15.269	-15.821	-1.142	1.00	0.00
ATOM	1635	O1 LIG	104	17.293	-19.613	0.485	1.00	0.00
ATOM	1636	O2 LIG	104	13.874	-15.228	-1.762	1.00	0.00
ATOM	1637	O3 LIG	104	15.745	-15.420	0.365	1.00	0.00
ATOM	1638	N1 LIG	104	14.898	-17.641	-1.214	1.00	0.00
ATOM	1639	H1 LIG	104	13.891	-17.736	-1.308	1.00	0.00
ATOM	1640	N2 LIG	104	16.931	-18.453	-0.325	1.00	0.00
ATOM	1641	N3 LIG	104	19.678	-14.778	-5.075	1.00	0.00

ATOM	1642	H10	LIG	104	19.481	-14.373	-5.974	1.00	0.00
ATOM	1643	H11	LIG	104	20.636	-14.989	-4.855	1.00	0.00
ATOM	1644	C1	LIG	104	16.640	-15.540	-2.349	1.00	0.00
ATOM	1645	C2	LIG	104	16.306	-14.980	-3.581	1.00	0.00
ATOM	1646	H2	LIG	104	15.272	-14.743	-3.806	1.00	0.00
ATOM	1647	C3	LIG	104	17.950	-15.854	-1.990	1.00	0.00
ATOM	1648	H3	LIG	104	18.167	-16.312	-1.034	1.00	0.00
ATOM	1649	C4	LIG	104	15.609	-18.570	-0.479	1.00	0.00
ATOM	1650	C5	LIG	104	18.670	-15.031	-4.172	1.00	0.00
ATOM	1651	C6	LIG	104	17.325	-14.725	-4.493	1.00	0.00
ATOM	1652	H4	LIG	104	17.088	-14.285	-5.457	1.00	0.00
ATOM	1653	C7	LIG	104	18.963	-15.599	-2.909	1.00	0.00
ATOM	1654	H5	LIG	104	19.990	-15.842	-2.655	1.00	0.00
ATOM	1655	C8	LIG	104	15.078	-19.743	0.161	1.00	0.00
ATOM	1656	H6	LIG	104	14.048	-20.058	0.185	1.00	0.00
ATOM	1657	C9	LIG	104	16.154	-20.356	0.735	1.00	0.00
ATOM	1658	C10	LIG	104	16.325	-21.591	1.544	1.00	0.00
ATOM	1659	H7	LIG	104	15.362	-22.090	1.685	1.00	0.00
ATOM	1660	H8	LIG	104	17.011	-22.289	1.053	1.00	0.00
ATOM	1661	H9	LIG	104	16.744	-21.356	2.528	1.00	0.00
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ATOM	1662	S1	LIG	105	-24.917	18.378	3.911	1.00	0.00

ATOM	1663	O1	LIG	105	-23.342	21.496	6.897	1.00	0.00
ATOM	1664	O2	LIG	105	-26.267	17.614	3.385	1.00	0.00
ATOM	1665	O3	LIG	105	-24.184	19.500	2.986	1.00	0.00
ATOM	1666	N1	LIG	105	-25.588	19.179	5.448	1.00	0.00
ATOM	1667	H1	LIG	105	-26.601	19.184	5.364	1.00	0.00
ATOM	1668	N2	LIG	105	-23.615	20.255	6.177	1.00	0.00
ATOM	1669	N3	LIG	105	-20.968	14.225	5.686	1.00	0.00
ATOM	1670	H10	LIG	105	-21.216	13.251	5.698	1.00	0.00
ATOM	1671	H11	LIG	105	-20.037	14.476	5.970	1.00	0.00
ATOM	1672	C1	LIG	105	-23.694	17.120	4.494	1.00	0.00
ATOM	1673	C2	LIG	105	-24.096	15.785	4.491	1.00	0.00
ATOM	1674	H2	LIG	105	-25.097	15.521	4.171	1.00	0.00
ATOM	1675	C3	LIG	105	-22.417	17.527	4.878	1.00	0.00
ATOM	1676	H3	LIG	105	-22.152	18.577	4.892	1.00	0.00
ATOM	1677	C4	LIG	105	-24.947	20.232	6.074	1.00	0.00
ATOM	1678	C5	LIG	105	-21.873	15.184	5.291	1.00	0.00
ATOM	1679	C6	LIG	105	-23.181	14.816	4.890	1.00	0.00
ATOM	1680	H4	LIG	105	-23.470	13.771	4.892	1.00	0.00
ATOM	1681	C7	LIG	105	-21.509	16.553	5.280	1.00	0.00
ATOM	1682	H5	LIG	105	-20.512	16.845	5.590	1.00	0.00
ATOM	1683	C8	LIG	105	-25.571	21.367	6.695	1.00	0.00
ATOM	1684	H6	LIG	105	-26.627	21.580	6.745	1.00	0.00

ATOM	1685	C9	LIG	105	-24.543	22.113	7.194	1.00	0.00
ATOM	1686	C10	LIG	105	-24.470	23.398	7.940	1.00	0.00
ATOM	1687	H7	LIG	105	-25.473	23.797	8.110	1.00	0.00
ATOM	1688	H8	LIG	105	-23.980	23.259	8.910	1.00	0.00
ATOM	1689	H9	LIG	105	-23.889	24.139	7.380	1.00	0.00
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ATOM	1690	S1	LIG	106	21.749	-8.158	20.490	1.00	0.00
ATOM	1691	O1	LIG	106	23.402	-4.567	18.145	1.00	0.00
ATOM	1692	O2	LIG	106	21.750	-9.793	20.579	1.00	0.00
ATOM	1693	O3	LIG	106	22.534	-7.265	21.604	1.00	0.00
ATOM	1694	N1	LIG	106	22.555	-7.933	18.830	1.00	0.00
ATOM	1695	H1	LIG	106	23.026	-8.805	18.607	1.00	0.00
ATOM	1696	N2	LIG	106	22.523	-5.572	18.738	1.00	0.00
ATOM	1697	N3	LIG	106	16.071	-6.301	19.941	1.00	0.00
ATOM	1698	H10	LIG	106	15.320	-6.962	19.846	1.00	0.00
ATOM	1699	H11	LIG	106	15.837	-5.323	19.952	1.00	0.00
ATOM	1700	C1	LIG	106	20.012	-7.561	20.289	1.00	0.00
ATOM	1701	C2	LIG	106	19.013	-8.524	20.158	1.00	0.00
ATOM	1702	H2	LIG	106	19.271	-9.577	20.160	1.00	0.00
ATOM	1703	C3	LIG	106	19.746	-6.192	20.310	1.00	0.00
ATOM	1704	H3	LIG	106	20.553	-5.473	20.386	1.00	0.00
ATOM	1705	C4	LIG	106	23.114	-6.732	18.436	1.00	0.00

ATOM	1706	C5	LIG	106	17.377	-6.720	20.056	1.00	0.00
ATOM	1707	C6	LIG	106	17.693	-8.100	20.042	1.00	0.00
ATOM	1708	H4	LIG	106	16.898	-8.833	19.944	1.00	0.00
ATOM	1709	C7	LIG	106	18.424	-5.776	20.190	1.00	0.00
ATOM	1710	H5	LIG	106	18.194	-4.716	20.196	1.00	0.00
ATOM	1711	C8	LIG	106	24.316	-6.558	17.667	1.00	0.00
ATOM	1712	H6	LIG	106	24.972	-7.333	17.305	1.00	0.00
ATOM	1713	C9	LIG	106	24.447	-5.209	17.507	1.00	0.00
ATOM	1714	C10	LIG	106	25.451	-4.345	16.830	1.00	0.00
ATOM	1715	H7	LIG	106	26.231	-4.957	16.371	1.00	0.00
ATOM	1716	H8	LIG	106	24.980	-3.736	16.051	1.00	0.00
ATOM	1717	H9	LIG	106	25.918	-3.660	17.546	1.00	0.00
TER									
ATOM	1718	S1	LIG	107	13.920	14.156	-17.525	1.00	0.00
ATOM	1719	O1	LIG	107	16.380	12.881	-13.858	1.00	0.00
ATOM	1720	O2	LIG	107	12.780	15.206	-18.053	1.00	0.00
ATOM	1721	O3	LIG	107	15.472	14.308	-17.997	1.00	0.00
ATOM	1722	N1	LIG	107	13.795	14.449	-15.694	1.00	0.00
ATOM	1723	H1	LIG	107	13.322	15.339	-15.566	1.00	0.00
ATOM	1724	N2	LIG	107	15.440	12.912	-14.975	1.00	0.00
ATOM	1725	N3	LIG	107	11.960	8.577	-18.540	1.00	0.00
ATOM	1726	H10	LIG	107	11.037	8.414	-18.903	1.00	0.00



ATOM	1727	H11	LIG	107	12.545	7.778	-18.365	1.00	0.00
ATOM	1728	C1	LIG	107	13.327	12.427	-17.798	1.00	0.00
ATOM	1729	C2	LIG	107	12.037	12.262	-18.300	1.00	0.00
ATOM	1730	H2	LIG	107	11.418	13.129	-18.498	1.00	0.00
ATOM	1731	C3	LIG	107	14.180	11.356	-17.536	1.00	0.00
ATOM	1732	H3	LIG	107	15.167	11.522	-17.121	1.00	0.00
ATOM	1733	C4	LIG	107	14.791	14.069	-14.814	1.00	0.00
ATOM	1734	C5	LIG	107	12.412	9.854	-18.294	1.00	0.00
ATOM	1735	C6	LIG	107	11.581	10.972	-18.548	1.00	0.00
ATOM	1736	H4	LIG	107	10.582	10.820	-18.943	1.00	0.00
ATOM	1737	C7	LIG	107	13.716	10.068	-17.783	1.00	0.00
ATOM	1738	H5	LIG	107	14.359	9.218	-17.580	1.00	0.00
ATOM	1739	C8	LIG	107	15.229	14.794	-13.652	1.00	0.00
ATOM	1740	H6	LIG	107	14.866	15.749	-13.309	1.00	0.00
ATOM	1741	C9	LIG	107	16.203	14.019	-13.093	1.00	0.00
ATOM	1742	C10	LIG	107	17.072	14.162	-11.895	1.00	0.00
ATOM	1743	H7	LIG	107	16.852	15.098	-11.375	1.00	0.00
ATOM	1744	H8	LIG	107	16.919	13.331	-11.199	1.00	0.00
ATOM	1745	H9	LIG	107	18.130	14.161	-12.181	1.00	0.00
TER									
ATOM	1746	S1	LIG	108	6.706	-0.124	-20.338	1.00	0.00
ATOM	1747	O1	LIG	108	8.145	0.540	-16.024	1.00	0.00

ATOM	1748	O2	LIG	108	5.971	0.595	-21.613	1.00	0.00
ATOM	1749	O3	LIG	108	8.300	-0.460	-20.379	1.00	0.00
ATOM	1750	N1	LIG	108	6.372	1.147	-19.024	1.00	0.00
ATOM	1751	H1	LIG	108	6.128	2.011	-19.500	1.00	0.00
ATOM	1752	N2	LIG	108	7.433	0.069	-17.209	1.00	0.00
ATOM	1753	N3	LIG	108	3.572	-5.024	-18.870	1.00	0.00
ATOM	1754	H10	LIG	108	2.708	-5.241	-19.336	1.00	0.00
ATOM	1755	H11	LIG	108	3.897	-5.661	-18.163	1.00	0.00
ATOM	1756	C1	LIG	108	5.742	-1.622	-19.845	1.00	0.00
ATOM	1757	C2	LIG	108	4.549	-1.869	-20.523	1.00	0.00
ATOM	1758	H2	LIG	108	4.212	-1.186	-21.294	1.00	0.00
ATOM	1759	C3	LIG	108	6.240	-2.468	-18.855	1.00	0.00
ATOM	1760	H3	LIG	108	7.158	-2.227	-18.333	1.00	0.00
ATOM	1761	C4	LIG	108	7.085	1.193	-17.841	1.00	0.00
ATOM	1762	C5	LIG	108	4.290	-3.896	-19.194	1.00	0.00
ATOM	1763	C6	LIG	108	3.824	-3.010	-20.196	1.00	0.00
ATOM	1764	H4	LIG	108	2.894	-3.225	-20.713	1.00	0.00
ATOM	1765	C7	LIG	108	5.507	-3.604	-18.531	1.00	0.00
ATOM	1766	H5	LIG	108	5.871	-4.274	-17.758	1.00	0.00
ATOM	1767	C8	LIG	108	7.504	2.376	-17.140	1.00	0.00
ATOM	1768	H6	LIG	108	7.347	3.399	-17.442	1.00	0.00
ATOM	1769	C9	LIG	108	8.145	1.923	-16.024	1.00	0.00

ATOM	1770	C10	LIG	108	8.821	2.592	-14.882	1.00	0.00
ATOM	1771	H7	LIG	108	8.768	3.678	-14.991	1.00	0.00
ATOM	1772	H8	LIG	108	8.352	2.313	-13.932	1.00	0.00
ATOM	1773	H9	LIG	108	9.875	2.298	-14.827	1.00	0.00
TER									
ATOM	1774	S1	LIG	109	-9.033	6.230	-15.427	1.00	0.00
ATOM	1775	O1	LIG	109	-6.034	8.901	-17.662	1.00	0.00
ATOM	1776	O2	LIG	109	-9.193	5.168	-14.191	1.00	0.00
ATOM	1777	O3	LIG	109	-9.658	7.731	-15.319	1.00	0.00
ATOM	1778	N1	LIG	109	-7.179	6.333	-15.517	1.00	0.00
ATOM	1779	H1	LIG	109	-6.818	5.980	-14.634	1.00	0.00
ATOM	1780	N2	LIG	109	-6.994	7.858	-17.311	1.00	0.00
ATOM	1781	N3	LIG	109	-10.880	3.552	-20.467	1.00	0.00
ATOM	1782	H10	LIG	109	-11.149	2.583	-20.467	1.00	0.00
ATOM	1783	H11	LIG	109	-10.943	4.056	-21.335	1.00	0.00
ATOM	1784	C1	LIG	109	-9.567	5.419	-17.000	1.00	0.00
ATOM	1785	C2	LIG	109	-9.924	4.072	-16.938	1.00	0.00
ATOM	1786	H2	LIG	109	-9.866	3.539	-15.996	1.00	0.00
ATOM	1787	C3	LIG	109	-9.633	6.167	-18.174	1.00	0.00
ATOM	1788	H3	LIG	109	-9.321	7.204	-18.187	1.00	0.00
ATOM	1789	C4	LIG	109	-6.525	7.366	-16.161	1.00	0.00
ATOM	1790	C5	LIG	109	-10.444	4.170	-19.317	1.00	0.00

ATOM	1791	C6	LIG	109	-10.364	3.449	-18.101	1.00	0.00
ATOM	1792	H4	LIG	109	-10.652	2.403	-18.076	1.00	0.00
ATOM	1793	C7	LIG	109	-10.070	5.535	-19.333	1.00	0.00
ATOM	1794	H5	LIG	109	-10.123	6.095	-20.261	1.00	0.00
ATOM	1795	C8	LIG	109	-5.308	8.004	-15.740	1.00	0.00
ATOM	1796	H6	LIG	109	-4.738	7.790	-14.850	1.00	0.00
ATOM	1797	C9	LIG	109	-5.041	8.937	-16.700	1.00	0.00
ATOM	1798	C10	LIG	109	-3.959	9.938	-16.890	1.00	0.00
ATOM	1799	H7	LIG	109	-3.240	9.882	-16.070	1.00	0.00
ATOM	1800	H8	LIG	109	-3.428	9.765	-17.833	1.00	0.00
ATOM	1801	H9	LIG	109	-4.370	10.952	-16.926	1.00	0.00
TER									
ATOM	1802	S1	LIG	110	-17.653	-23.082	-14.788	1.00	0.00
ATOM	1803	O1	LIG	110	-19.876	-22.127	-10.880	1.00	0.00
ATOM	1804	O2	LIG	110	-17.174	-22.458	-16.224	1.00	0.00
ATOM	1805	O3	LIG	110	-16.568	-23.387	-13.611	1.00	0.00
ATOM	1806	N1	LIG	110	-18.813	-21.741	-14.232	1.00	0.00
ATOM	1807	H1	LIG	110	-18.594	-20.912	-14.779	1.00	0.00
ATOM	1808	N2	LIG	110	-19.486	-22.684	-12.173	1.00	0.00
ATOM	1809	N3	LIG	110	-20.994	-27.947	-15.866	1.00	0.00
ATOM	1810	H10	LIG	110	-21.233	-28.209	-16.807	1.00	0.00
ATOM	1811	H11	LIG	110	-21.323	-28.532	-15.117	1.00	0.00

ATOM	1812	C1	LIG	110	-18.711	-24.566	-15.093	1.00	0.00
ATOM	1813	C2	LIG	110	-19.013	-24.879	-16.417	1.00	0.00
ATOM	1814	H2	LIG	110	-18.644	-24.251	-17.220	1.00	0.00
ATOM	1815	C3	LIG	110	-19.141	-25.340	-14.015	1.00	0.00
ATOM	1816	H3	LIG	110	-18.908	-25.050	-12.998	1.00	0.00
ATOM	1817	C4	LIG	110	-19.214	-21.607	-12.916	1.00	0.00
ATOM	1818	C5	LIG	110	-20.238	-26.825	-15.611	1.00	0.00
ATOM	1819	C6	LIG	110	-19.777	-26.012	-16.675	1.00	0.00
ATOM	1820	H4	LIG	110	-20.021	-26.277	-17.698	1.00	0.00
ATOM	1821	C7	LIG	110	-19.908	-26.469	-14.280	1.00	0.00
ATOM	1822	H5	LIG	110	-20.260	-27.083	-13.458	1.00	0.00
ATOM	1823	C8	LIG	110	-19.417	-20.376	-12.203	1.00	0.00
ATOM	1824	H6	LIG	110	-19.265	-19.377	-12.578	1.00	0.00
ATOM	1825	C9	LIG	110	-19.832	-20.747	-10.957	1.00	0.00
ATOM	1826	C10	LIG	110	-20.208	-19.996	-9.731	1.00	0.00
ATOM	1827	H7	LIG	110	-20.127	-18.920	-9.904	1.00	0.00
ATOM	1828	H8	LIG	110	-21.236	-20.226	-9.431	1.00	0.00
ATOM	1829	H9	LIG	110	-19.554	-20.265	-8.895	1.00	0.00
TER									
ATOM	1830	S1	LIG	111	-7.665	19.718	19.014	1.00	0.00
ATOM	1831	O1	LIG	111	-6.581	17.085	15.406	1.00	0.00
ATOM	1832	O2	LIG	111	-7.147	20.231	20.480	1.00	0.00

ATOM	1833	O3	LIG	111	-7.693	20.733	17.740	1.00	0.00
ATOM	1834	N1	LIG	111	-6.434	18.361	18.701	1.00	0.00
ATOM	1835	H1	LIG	111	-5.650	18.520	19.329	1.00	0.00
ATOM	1836	N2	LIG	111	-7.222	17.644	16.593	1.00	0.00
ATOM	1837	N3	LIG	111	-13.015	17.095	19.716	1.00	0.00
ATOM	1838	H10	LIG	111	-13.409	16.967	20.632	1.00	0.00
ATOM	1839	H11	LIG	111	-13.551	16.780	18.926	1.00	0.00
ATOM	1840	C1	LIG	111	-9.300	18.877	19.207	1.00	0.00
ATOM	1841	C2	LIG	111	-9.794	18.724	20.501	1.00	0.00
ATOM	1842	H2	LIG	111	-9.216	19.077	21.347	1.00	0.00
ATOM	1843	C3	LIG	111	-9.998	18.459	18.075	1.00	0.00
ATOM	1844	H3	LIG	111	-9.569	18.571	17.087	1.00	0.00
ATOM	1845	C4	LIG	111	-6.208	17.842	17.441	1.00	0.00
ATOM	1846	C5	LIG	111	-11.783	17.685	19.548	1.00	0.00
ATOM	1847	C6	LIG	111	-11.039	18.127	20.670	1.00	0.00
ATOM	1848	H4	LIG	111	-11.446	18.002	21.668	1.00	0.00
ATOM	1849	C7	LIG	111	-11.241	17.860	18.252	1.00	0.00
ATOM	1850	H5	LIG	111	-11.800	17.520	17.386	1.00	0.00
ATOM	1851	C8	LIG	111	-4.943	17.432	16.897	1.00	0.00
ATOM	1852	H6	LIG	111	-3.980	17.491	17.379	1.00	0.00
ATOM	1853	C9	LIG	111	-5.224	16.966	15.645	1.00	0.00
ATOM	1854	C10	LIG	111	-4.397	16.403	14.546	1.00	0.00

ATOM	1855	H7	LIG	111	-3.345	16.365	14.842	1.00	0.00
ATOM	1856	H8	LIG	111	-4.725	15.390	14.290	1.00	0.00
ATOM	1857	H9	LIG	111	-4.483	17.016	13.642	1.00	0.00
TER									
ATOM	1858	S1	LIG	112	-0.823	-23.935	-4.776	1.00	0.00
ATOM	1859	O1	LIG	112	-2.698	-27.081	-1.999	1.00	0.00
ATOM	1860	O2	LIG	112	-1.165	-22.728	-5.828	1.00	0.00
ATOM	1861	O3	LIG	112	-0.208	-23.604	-3.303	1.00	0.00
ATOM	1862	N1	LIG	112	-2.515	-24.680	-4.590	1.00	0.00
ATOM	1863	H1	LIG	112	-3.184	-23.986	-4.915	1.00	0.00
ATOM	1864	N2	LIG	112	-1.976	-26.416	-3.080	1.00	0.00
ATOM	1865	N3	LIG	112	2.575	-27.994	-7.597	1.00	0.00
ATOM	1866	H10	LIG	112	2.781	-27.903	-8.577	1.00	0.00
ATOM	1867	H11	LIG	112	2.967	-28.780	-7.107	1.00	0.00
ATOM	1868	C1	LIG	112	0.199	-25.216	-5.630	1.00	0.00
ATOM	1869	C2	LIG	112	0.447	-25.037	-6.990	1.00	0.00
ATOM	1870	H2	LIG	112	0.032	-24.181	-7.509	1.00	0.00
ATOM	1871	C3	LIG	112	0.715	-26.286	-4.900	1.00	0.00
ATOM	1872	H3	LIG	112	0.477	-26.405	-3.850	1.00	0.00
ATOM	1873	C4	LIG	112	-2.847	-25.511	-3.536	1.00	0.00
ATOM	1874	C5	LIG	112	1.787	-27.073	-6.946	1.00	0.00
ATOM	1875	C6	LIG	112	1.244	-25.969	-7.647	1.00	0.00

ATOM	1876	H4	LIG	112	1.454	-25.848	-8.705	1.00	0.00
ATOM	1877	C7	LIG	112	1.507	-27.216	-5.565	1.00	0.00
ATOM	1878	H5	LIG	112	1.914	-28.061	-5.020	1.00	0.00
ATOM	1879	C8	LIG	112	-4.103	-25.549	-2.839	1.00	0.00
ATOM	1880	H6	LIG	112	-4.962	-24.923	-3.016	1.00	0.00
ATOM	1881	C9	LIG	112	-3.966	-26.537	-1.908	1.00	0.00
ATOM	1882	C10	LIG	112	-4.861	-27.097	-0.861	1.00	0.00
ATOM	1883	H7	LIG	112	-5.827	-26.587	-0.874	1.00	0.00
ATOM	1884	H8	LIG	112	-5.028	-28.168	-1.021	1.00	0.00
ATOM	1885	H9	LIG	112	-4.417	-26.979	0.134	1.00	0.00

TER

ATOM	1886	S1	LIG	113	15.213	22.383	-8.569	1.00	0.00
ATOM	1887	O1	LIG	113	15.980	26.510	-10.439	1.00	0.00
ATOM	1888	O2	LIG	113	15.491	20.778	-8.744	1.00	0.00
ATOM	1889	O3	LIG	113	15.962	23.233	-7.398	1.00	0.00
ATOM	1890	N1	LIG	113	15.778	22.985	-10.234	1.00	0.00
ATOM	1891	H1	LIG	113	16.357	22.251	-10.635	1.00	0.00
ATOM	1892	N2	LIG	113	15.350	25.290	-9.942	1.00	0.00
ATOM	1893	N3	LIG	113	9.282	23.253	-8.318	1.00	0.00
ATOM	1894	H10	LIG	113	8.643	22.489	-8.452	1.00	0.00
ATOM	1895	H11	LIG	113	8.894	24.161	-8.129	1.00	0.00
ATOM	1896	C1	LIG	113	13.389	22.682	-8.520	1.00	0.00



ATOM	1897	C2	LIG	113	12.553	21.584	-8.717	1.00	0.00
ATOM	1898	H2	LIG	113	12.978	20.606	-8.907	1.00	0.00
ATOM	1899	C3	LIG	113	12.908	23.964	-8.256	1.00	0.00
ATOM	1900	H3	LIG	113	13.589	24.797	-8.135	1.00	0.00
ATOM	1901	C4	LIG	113	16.085	24.310	-10.476	1.00	0.00
ATOM	1902	C5	LIG	113	10.644	23.063	-8.385	1.00	0.00
ATOM	1903	C6	LIG	113	11.177	21.777	-8.648	1.00	0.00
ATOM	1904	H4	LIG	113	10.507	20.937	-8.794	1.00	0.00
ATOM	1905	C7	LIG	113	11.531	24.149	-8.193	1.00	0.00
ATOM	1906	H5	LIG	113	11.132	25.139	-7.996	1.00	0.00
ATOM	1907	C8	LIG	113	17.148	24.804	-11.309	1.00	0.00
ATOM	1908	H6	LIG	113	17.876	24.219	-11.846	1.00	0.00
ATOM	1909	C9	LIG	113	17.038	26.164	-11.261	1.00	0.00
ATOM	1910	C10	LIG	113	17.803	27.281	-11.874	1.00	0.00
ATOM	1911	H7	LIG	113	18.616	26.892	-12.491	1.00	0.00
ATOM	1912	H8	LIG	113	17.154	27.902	-12.501	1.00	0.00
ATOM	1913	H9	LIG	113	18.231	27.929	-11.101	1.00	0.00
TER									
END									

**Table Q:** The number of atoms present in the system of MO-Dic

ATOM	1	N	PRO	1	-13.611	9.181	-6.754	1.00	0.00
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ATOM	2	H2	PRO	1	-13.966	8.251	-6.582	1.00	0.00
ATOM	3	H3	PRO	1	-14.236	9.910	-7.071	1.00	0.00
ATOM	4	CD	PRO	1	-13.006	9.729	-5.519	1.00	0.00
ATOM	5	HD2	PRO	1	-12.992	8.953	-4.755	1.00	0.00
ATOM	6	HD3	PRO	1	-13.607	10.570	-5.171	1.00	0.00
ATOM	7	CG	PRO	1	-11.620	10.149	-5.945	1.00	0.00
ATOM	8	HG2	PRO	1	-10.902	9.616	-5.322	1.00	0.00
ATOM	9	HG3	PRO	1	-11.526	11.221	-5.771	1.00	0.00
ATOM	10	CB	PRO	1	-11.430	9.820	-7.417	1.00	0.00
ATOM	11	HB2	PRO	1	-10.494	9.281	-7.557	1.00	0.00
ATOM	12	HB3	PRO	1	-11.427	10.720	-8.033	1.00	0.00
ATOM	13	CA	PRO	1	-12.614	8.921	-7.808	1.00	0.00
ATOM	14	HA	PRO	1	-13.052	9.229	-8.758	1.00	0.00
ATOM	15	C	PRO	1	-12.187	7.434	-7.895	1.00	0.00
ATOM	16	O	PRO	1	-12.461	6.645	-6.971	1.00	0.00
ATOM	17	N	PRO	2	-11.561	7.046	-9.011	1.00	0.00
ATOM	18	CD	PRO	2	-11.157	7.917	-10.120	1.00	0.00
ATOM	19	HD2	PRO	2	-10.394	8.609	-9.763	1.00	0.00
ATOM	20	HD3	PRO	2	-12.027	8.480	-10.458	1.00	0.00
ATOM	21	CG	PRO	2	-10.646	6.993	-11.156	1.00	0.00
ATOM	22	HG2	PRO	2	-9.634	7.303	-11.415	1.00	0.00
ATOM	23	HG3	PRO	2	-11.288	7.081	-12.033	1.00	0.00

ATOM	24	CB	PRO	2	-10.669	5.622	-10.624	1.00	0.00
ATOM	25	HB2	PRO	2	-9.655	5.226	-10.672	1.00	0.00
ATOM	26	HB3	PRO	2	-11.338	4.977	-11.193	1.00	0.00
ATOM	27	CA	PRO	2	-11.126	5.696	-9.180	1.00	0.00
ATOM	28	HA	PRO	2	-11.975	5.038	-8.993	1.00	0.00
ATOM	29	C	PRO	2	-9.983	5.338	-8.226	1.00	0.00
ATOM	30	O	PRO	2	-9.240	6.158	-7.776	1.00	0.00
ATOM	31	N	THR	3	-9.834	4.056	-7.999	1.00	0.00
ATOM	32	H	THR	3	-10.346	3.363	-8.526	1.00	0.00
ATOM	33	CA	THR	3	-8.934	3.605	-6.974	1.00	0.00
ATOM	34	HA	THR	3	-9.267	4.048	-6.035	1.00	0.00
ATOM	35	CB	THR	3	-9.045	2.078	-6.862	1.00	0.00
ATOM	36	HB	THR	3	-8.752	1.634	-7.813	1.00	0.00
ATOM	37	CG2	THR	3	-8.173	1.568	-5.793	1.00	0.00
ATOM	38	HG21	THR	3	-8.466	2.012	-4.842	1.00	0.00
ATOM	39	HG22	THR	3	-8.268	0.484	-5.732	1.00	0.00
ATOM	40	HG23	THR	3	-7.138	1.830	-6.012	1.00	0.00
ATOM	41	OG1	THR	3	-10.402	1.771	-6.463	1.00	0.00
ATOM	42	HG1	THR	3	-10.505	0.820	-6.384	1.00	0.00
ATOM	43	C	THR	3	-7.515	3.967	-7.269	1.00	0.00
ATOM	44	O	THR	3	-6.813	4.425	-6.387	1.00	0.00
ATOM	45	N	LEU	4	-7.098	3.775	-8.518	1.00	0.00

ATOM	46	H	LEU	4	-7.653	3.389	-9.269	1.00	0.00
ATOM	47	CA	LEU	4	-5.679	4.097	-8.788	1.00	0.00
ATOM	48	HA	LEU	4	-5.063	3.566	-8.063	1.00	0.00
ATOM	49	CB	LEU	4	-5.225	3.706	-10.196	1.00	0.00
ATOM	50	HB2	LEU	4	-5.397	2.630	-10.221	1.00	0.00
ATOM	51	HB3	LEU	4	-5.881	4.195	-10.916	1.00	0.00
ATOM	52	CG	LEU	4	-3.791	3.993	-10.549	1.00	0.00
ATOM	53	HG	LEU	4	-3.648	5.069	-10.447	1.00	0.00
ATOM	54	CD1	LEU	4	-2.779	3.267	-9.693	1.00	0.00
ATOM	55	HD11	LEU	4	-2.922	2.191	-9.795	1.00	0.00
ATOM	56	HD12	LEU	4	-1.773	3.532	-10.016	1.00	0.00
ATOM	57	HD13	LEU	4	-2.913	3.554	-8.650	1.00	0.00
ATOM	58	CD2	LEU	4	-3.632	3.644	-11.993	1.00	0.00
ATOM	59	HD21	LEU	4	-4.310	4.253	-12.592	1.00	0.00
ATOM	60	HD22	LEU	4	-2.605	3.835	-12.303	1.00	0.00
ATOM	61	HD23	LEU	4	-3.866	2.590	-12.141	1.00	0.00
ATOM	62	C	LEU	4	-5.409	5.574	-8.574	1.00	0.00
ATOM	63	O	LEU	4	-4.402	5.928	-8.052	1.00	0.00
ATOM	64	N	GLN	5	-6.335	6.422	-8.968	1.00	0.00
ATOM	65	H	GLN	5	-7.151	6.129	-9.486	1.00	0.00
ATOM	66	CA	GLN	5	-6.129	7.847	-8.755	1.00	0.00
ATOM	67	HA	GLN	5	-5.146	8.149	-9.115	1.00	0.00

ATOM	68	CB	GLN	5	-7.203	8.635	-9.536	1.00	0.00
ATOM	69	HB2	GLN	5	-7.073	8.405	-10.594	1.00	0.00
ATOM	70	HB3	GLN	5	-8.178	8.277	-9.204	1.00	0.00
ATOM	71	CG	GLN	5	-7.119	10.162	-9.329	1.00	0.00
ATOM	72	HG2	GLN	5	-7.069	10.418	-8.271	1.00	0.00
ATOM	73	HG3	GLN	5	-6.207	10.493	-9.826	1.00	0.00
ATOM	74	CD	GLN	5	-8.300	10.890	-9.949	1.00	0.00
ATOM	75	OE1	GLN	5	-8.934	10.385	-10.916	1.00	0.00
ATOM	76	NE2	GLN	5	-8.651	12.052	-9.364	1.00	0.00
ATOM	77	HE21	GLN	5	-9.429	12.584	-9.730	1.00	0.00
ATOM	78	HE22	GLN	5	-8.136	12.387	-8.563	1.00	0.00
ATOM	79	C	GLN	5	-6.103	8.228	-7.264	1.00	0.00
ATOM	80	O	GLN	5	-5.235	9.003	-6.845	1.00	0.00
ATOM	81	N	ARG	6	-6.894	7.516	-6.427	1.00	0.00
ATOM	82	H	ARG	6	-7.520	6.817	-6.801	1.00	0.00
ATOM	83	CA	ARG	6	-6.900	7.744	-5.028	1.00	0.00
ATOM	84	HA	ARG	6	-7.020	8.810	-4.831	1.00	0.00
ATOM	85	CB	ARG	6	-8.037	7.000	-4.369	1.00	0.00
ATOM	86	HB2	ARG	6	-7.944	5.963	-4.691	1.00	0.00
ATOM	87	HB3	ARG	6	-7.856	7.065	-3.296	1.00	0.00
ATOM	88	CG	ARG	6	-9.434	7.500	-4.676	1.00	0.00
ATOM	89	HG2	ARG	6	-9.403	8.590	-4.701	1.00	0.00

ATOM	90	HG3 ARG	6	-9.718	7.123	-5.659	1.00	0.00
ATOM	91	CD ARG	6	-10.487	7.032	-3.613	1.00	0.00
ATOM	92	HD2 ARG	6	-10.350	7.655	-2.730	1.00	0.00
ATOM	93	HD3 ARG	6	-11.475	7.216	-4.037	1.00	0.00
ATOM	94	NE ARG	6	-10.402	5.614	-3.210	1.00	0.00
ATOM	95	HE ARG	6	-9.875	5.421	-2.371	1.00	0.00
ATOM	96	CZ ARG	6	-10.966	4.583	-3.866	1.00	0.00
ATOM	97	NH1 ARG	6	-11.698	4.765	-4.966	1.00	0.00
ATOM	98	HH11 ARG	6	-11.840	5.698	-5.326	1.00	0.00
ATOM	99	HH12 ARG	6	-12.107	3.969	-5.434	1.00	0.00
ATOM	100	NH2 ARG	6	-10.800	3.323	-3.421	1.00	0.00
ATOM	101	HH21 ARG	6	-10.250	3.152	-2.592	1.00	0.00
ATOM	102	HH22 ARG	6	-11.227	2.555	-3.919	1.00	0.00
ATOM	103	C ARG	6	-5.558	7.286	-4.485	1.00	0.00
ATOM	104	O ARG	6	-4.997	7.863	-3.567	1.00	0.00
ATOM	105	N CYX	7	-5.072	6.126	-5.001	1.00	0.00
ATOM	106	H CYX	7	-5.592	5.552	-5.649	1.00	0.00
ATOM	107	CA CYX	7	-3.778	5.662	-4.561	1.00	0.00
ATOM	108	HA CYX	7	-3.787	5.516	-3.481	1.00	0.00
ATOM	109	CB CYX	7	-3.419	4.302	-5.247	1.00	0.00
ATOM	110	HB2 CYX	7	-4.035	3.508	-4.825	1.00	0.00
ATOM	111	HB3 CYX	7	-3.605	4.375	-6.319	1.00	0.00

ATOM	112	SG	CYX	7	-1.728	3.823	-5.095	1.00	0.00
ATOM	113	C	CYX	7	-2.679	6.694	-4.846	1.00	0.00
ATOM	114	O	CYX	7	-1.883	7.035	-3.983	1.00	0.00
ATOM	115	N	CYX	8	-2.653	7.290	-6.020	1.00	0.00
ATOM	116	H	CYX	8	-3.397	7.152	-6.689	1.00	0.00
ATOM	117	CA	CYX	8	-1.573	8.181	-6.372	1.00	0.00
ATOM	118	HA	CYX	8	-0.626	7.688	-6.156	1.00	0.00
ATOM	119	CB	CYX	8	-1.594	8.562	-7.817	1.00	0.00
ATOM	120	HB2	CYX	8	-2.576	8.960	-8.074	1.00	0.00
ATOM	121	HB3	CYX	8	-0.835	9.321	-8.004	1.00	0.00
ATOM	122	SG	CYX	8	-1.289	7.152	-8.977	1.00	0.00
ATOM	123	C	CYX	8	-1.684	9.498	-5.567	1.00	0.00
ATOM	124	O	CYX	8	-0.720	10.012	-5.167	1.00	0.00
ATOM	125	N	ARG	9	-2.914	9.839	-5.241	1.00	0.00
ATOM	126	H	ARG	9	-3.702	9.354	-5.646	1.00	0.00
ATOM	127	CA	ARG	9	-3.187	11.015	-4.335	1.00	0.00
ATOM	128	HA	ARG	9	-2.598	11.864	-4.683	1.00	0.00
ATOM	129	CB	ARG	9	-4.640	11.417	-4.307	1.00	0.00
ATOM	130	HB2	ARG	9	-4.943	11.735	-5.305	1.00	0.00
ATOM	131	HB3	ARG	9	-5.242	10.562	-4.001	1.00	0.00
ATOM	132	CG	ARG	9	-4.844	12.533	-3.349	1.00	0.00
ATOM	133	HG2	ARG	9	-4.503	12.194	-2.371	1.00	0.00

ATOM	134	HG3 ARG	9	-4.226	13.368	-3.680	1.00	0.00
ATOM	135	CD ARG	9	-6.313	12.990	-3.250	1.00	0.00
ATOM	136	HD2 ARG	9	-6.373	13.678	-2.407	1.00	0.00
ATOM	137	HD3 ARG	9	-6.539	13.527	-4.172	1.00	0.00
ATOM	138	NE ARG	9	-7.308	11.936	-3.066	1.00	0.00
ATOM	139	HE ARG	9	-7.906	11.785	-3.866	1.00	0.00
ATOM	140	CZ ARG	9	-7.504	11.183	-1.964	1.00	0.00
ATOM	141	NH1 ARG	9	-6.768	11.320	-0.849	1.00	0.00
ATOM	142	HH11 ARG	9	-6.032	12.011	-0.815	1.00	0.00
ATOM	143	HH12 ARG	9	-6.954	10.732	-0.050	1.00	0.00
ATOM	144	NH2 ARG	9	-8.463	10.247	-1.980	1.00	0.00
ATOM	145	HH21 ARG	9	-9.024	10.117	-2.810	1.00	0.00
ATOM	146	HH22 ARG	9	-8.621	9.676	-1.162	1.00	0.00
ATOM	147	C ARG	9	-2.698	10.737	-2.926	1.00	0.00
ATOM	148	O ARG	9	-1.922	11.475	-2.333	1.00	0.00
ATOM	149	N GLN	10	-2.969	9.531	-2.365	1.00	0.00
ATOM	150	H GLN	10	-3.563	8.829	-2.784	1.00	0.00
ATOM	151	CA GLN	10	-2.422	9.272	-1.056	1.00	0.00
ATOM	152	HA GLN	10	-2.661	10.080	-0.365	1.00	0.00
ATOM	153	CB GLN	10	-3.061	7.954	-0.522	1.00	0.00
ATOM	154	HB2 GLN	10	-2.748	7.174	-1.216	1.00	0.00
ATOM	155	HB3 GLN	10	-2.603	7.780	0.451	1.00	0.00



ATOM	156	CG	GLN	10	-4.559	7.929	-0.383	1.00	0.00
ATOM	157	HG2	GLN	10	-4.675	8.523	0.524	1.00	0.00
ATOM	158	HG3	GLN	10	-5.045	8.439	-1.215	1.00	0.00
ATOM	159	CD	GLN	10	-5.247	6.568	-0.171	1.00	0.00
ATOM	160	OE1	GLN	10	-4.697	5.483	-0.367	1.00	0.00
ATOM	161	NE2	GLN	10	-6.527	6.655	0.087	1.00	0.00
ATOM	162	HE21	GLN	10	-7.066	5.815	0.241	1.00	0.00
ATOM	163	HE22	GLN	10	-6.970	7.562	0.130	1.00	0.00
ATOM	164	C	GLN	10	-0.987	9.168	-0.959	1.00	0.00
ATOM	165	O	GLN	10	-0.309	9.668	-0.112	1.00	0.00
ATOM	166	N	LEU	11	-0.377	8.539	-2.012	1.00	0.00
ATOM	167	H	LEU	11	-0.954	8.051	-2.683	1.00	0.00
ATOM	168	CA	LEU	11	1.036	8.407	-2.115	1.00	0.00
ATOM	169	HA	LEU	11	1.451	8.088	-1.159	1.00	0.00
ATOM	170	CB	LEU	11	1.394	7.355	-3.183	1.00	0.00
ATOM	171	HB2	LEU	11	0.775	6.490	-2.945	1.00	0.00
ATOM	172	HB3	LEU	11	1.107	7.749	-4.158	1.00	0.00
ATOM	173	CG	LEU	11	2.812	6.952	-3.214	1.00	0.00
ATOM	174	HG	LEU	11	3.403	7.854	-3.374	1.00	0.00
ATOM	175	CD1	LEU	11	3.276	6.261	-1.943	1.00	0.00
ATOM	176	HD11	LEU	11	2.685	5.359	-1.783	1.00	0.00
ATOM	177	HD12	LEU	11	4.328	5.994	-2.038	1.00	0.00

ATOM	178	HD13	LEU	11	3.148	6.934	-1.096	1.00	0.00
ATOM	179	CD2	LEU	11	3.059	6.023	-4.395	1.00	0.00
ATOM	180	HD21	LEU	11	2.811	6.540	-5.323	1.00	0.00
ATOM	181	HD22	LEU	11	4.108	5.729	-4.413	1.00	0.00
ATOM	182	HD23	LEU	11	2.434	5.135	-4.297	1.00	0.00
ATOM	183	C	LEU	11	1.765	9.713	-2.321	1.00	0.00
ATOM	184	O	LEU	11	2.833	9.923	-1.827	1.00	0.00
ATOM	185	N	ARG	12	1.083	10.555	-3.089	1.00	0.00
ATOM	186	H	ARG	12	0.185	10.333	-3.495	1.00	0.00
ATOM	187	CA	ARG	12	1.684	11.904	-3.380	1.00	0.00
ATOM	188	HA	ARG	12	2.675	11.780	-3.815	1.00	0.00
ATOM	189	CB	ARG	12	0.836	12.658	-4.340	1.00	0.00
ATOM	190	HB2	ARG	12	0.873	12.152	-5.305	1.00	0.00
ATOM	191	HB3	ARG	12	-0.189	12.658	-3.970	1.00	0.00
ATOM	192	CG	ARG	12	1.315	14.089	-4.501	1.00	0.00
ATOM	193	HG2	ARG	12	1.275	14.550	-3.514	1.00	0.00
ATOM	194	HG3	ARG	12	2.350	14.041	-4.838	1.00	0.00
ATOM	195	CD	ARG	12	0.509	14.913	-5.473	1.00	0.00
ATOM	196	HD2	ARG	12	0.950	15.910	-5.483	1.00	0.00
ATOM	197	HD3	ARG	12	0.631	14.453	-6.454	1.00	0.00
ATOM	198	NE	ARG	12	-0.866	15.032	-5.199	1.00	0.00
ATOM	199	HE	ARG	12	-1.511	14.486	-5.753	1.00	0.00

ATOM	200	CZ	ARG	12	-1.339	15.735	-4.207	1.00	0.00
ATOM	201	NH1	ARG	12	-0.533	16.428	-3.446	1.00	0.00
ATOM	202	HH11	ARG	12	0.460	16.419	-3.628	1.00	0.00
ATOM	203	HH12	ARG	12	-0.908	16.970	-2.680	1.00	0.00
ATOM	204	NH2	ARG	12	-2.577	15.828	-4.035	1.00	0.00
ATOM	205	HH21	ARG	12	-3.209	15.357	-4.667	1.00	0.00
ATOM	206	HH22	ARG	12	-2.938	16.374	-3.265	1.00	0.00
ATOM	207	C	ARG	12	1.787	12.660	-2.057	1.00	0.00
ATOM	208	O	ARG	12	2.801	13.262	-1.843	1.00	0.00
ATOM	209	N	ASN	13	0.819	12.452	-1.179	1.00	0.00
ATOM	210	H	ASN	13	-0.030	11.990	-1.472	1.00	0.00
ATOM	211	CA	ASN	13	0.832	13.149	0.183	1.00	0.00
ATOM	212	HA	ASN	13	1.239	14.156	0.084	1.00	0.00
ATOM	213	CB	ASN	13	-0.544	13.246	0.713	1.00	0.00
ATOM	214	HB2	ASN	13	-1.093	12.307	0.640	1.00	0.00
ATOM	215	HB3	ASN	13	-0.423	13.515	1.762	1.00	0.00
ATOM	216	CG	ASN	13	-1.335	14.314	0.036	1.00	0.00
ATOM	217	OD1	ASN	13	-1.117	15.472	0.294	1.00	0.00
ATOM	218	ND2	ASN	13	-2.155	13.957	-0.871	1.00	0.00
ATOM	219	HD21	ASN	13	-2.708	14.654	-1.351	1.00	0.00
ATOM	220	HD22	ASN	13	-2.249	12.980	-1.106	1.00	0.00
ATOM	221	C	ASN	13	1.869	12.647	1.157	1.00	0.00

ATOM	222	O	ASN	13	2.125	13.222	2.243	1.00	0.00
ATOM	223	N	VAL	14	2.451	11.457	0.873	1.00	0.00
ATOM	224	H	VAL	14	1.995	10.837	0.219	1.00	0.00
ATOM	225	CA	VAL	14	3.584	11.007	1.522	1.00	0.00
ATOM	226	HA	VAL	14	3.723	11.345	2.549	1.00	0.00
ATOM	227	CB	VAL	14	3.634	9.414	1.499	1.00	0.00
ATOM	228	HB	VAL	14	3.558	9.061	0.471	1.00	0.00
ATOM	229	CG1	VAL	14	4.962	8.941	2.106	1.00	0.00
ATOM	230	HG11	VAL	14	5.038	9.294	3.134	1.00	0.00
ATOM	231	HG12	VAL	14	5.000	7.852	2.092	1.00	0.00
ATOM	232	HG13	VAL	14	5.791	9.341	1.523	1.00	0.00
ATOM	233	CG2	VAL	14	2.414	8.878	2.114	1.00	0.00
ATOM	234	HG21	VAL	14	1.543	9.223	1.555	1.00	0.00
ATOM	235	HG22	VAL	14	2.447	7.789	2.099	1.00	0.00
ATOM	236	HG23	VAL	14	2.344	9.225	3.145	1.00	0.00
ATOM	237	C	VAL	14	4.893	11.630	0.955	1.00	0.00
ATOM	238	O	VAL	14	5.059	11.754	-0.261	1.00	0.00
ATOM	239	N	SER	15	5.838	12.013	1.825	1.00	0.00
ATOM	240	H	SER	15	5.732	11.836	2.813	1.00	0.00
ATOM	241	CA	SER	15	7.084	12.615	1.359	1.00	0.00
ATOM	242	HA	SER	15	6.864	13.547	0.837	1.00	0.00
ATOM	243	CB	SER	15	8.009	12.915	2.514	1.00	0.00

ATOM	244	HB2	SER	15	8.255	12.029	3.099	1.00	0.00
ATOM	245	HB3	SER	15	8.928	13.410	2.201	1.00	0.00
ATOM	246	OG	SER	15	7.254	13.788	3.291	1.00	0.00
ATOM	247	HG	SER	15	7.759	14.046	4.065	1.00	0.00
ATOM	248	C	SER	15	7.843	11.700	0.521	1.00	0.00
ATOM	249	O	SER	15	7.849	10.474	0.814	1.00	0.00
ATOM	250	N	PRO	16	8.475	12.183	-0.543	1.00	0.00
ATOM	251	CD	PRO	16	8.416	13.586	-1.122	1.00	0.00
ATOM	252	HD2	PRO	16	8.878	14.287	-0.427	1.00	0.00
ATOM	253	HD3	PRO	16	7.376	13.870	-1.285	1.00	0.00
ATOM	254	CG	PRO	16	9.190	13.457	-2.419	1.00	0.00
ATOM	255	HG2	PRO	16	9.760	14.370	-2.590	1.00	0.00
ATOM	256	HG3	PRO	16	8.490	13.308	-3.242	1.00	0.00
ATOM	257	CB	PRO	16	10.078	12.288	-2.263	1.00	0.00
ATOM	258	HB2	PRO	16	10.996	12.522	-1.725	1.00	0.00
ATOM	259	HB3	PRO	16	10.325	11.849	-3.230	1.00	0.00
ATOM	260	CA	PRO	16	9.223	11.301	-1.439	1.00	0.00
ATOM	261	HA	PRO	16	8.494	10.820	-2.091	1.00	0.00
ATOM	262	C	PRO	16	10.057	10.231	-0.729	1.00	0.00
ATOM	263	O	PRO	16	10.001	9.028	-1.053	1.00	0.00
ATOM	264	N	PHE	17	10.807	10.633	0.286	1.00	0.00
ATOM	265	H	PHE	17	10.831	11.603	0.568	1.00	0.00

ATOM	266	CA	PHE	17	11.704	9.683	0.969	1.00	0.00
ATOM	267	HA	PHE	17	12.273	9.127	0.224	1.00	0.00
ATOM	268	CB	PHE	17	12.693	10.411	1.903	1.00	0.00
ATOM	269	HB2	PHE	17	13.488	10.837	1.291	1.00	0.00
ATOM	270	HB3	PHE	17	12.205	11.206	2.468	1.00	0.00
ATOM	271	CG	PHE	17	13.370	9.497	2.927	1.00	0.00
ATOM	272	CD1	PHE	17	14.351	8.565	2.522	1.00	0.00
ATOM	273	HD1	PHE	17	14.647	8.519	1.474	1.00	0.00
ATOM	274	CE1	PHE	17	14.943	7.703	3.457	1.00	0.00
ATOM	275	HE1	PHE	17	15.700	6.988	3.136	1.00	0.00
ATOM	276	CZ	PHE	17	14.560	7.761	4.805	1.00	0.00
ATOM	277	HZ	PHE	17	15.026	7.091	5.527	1.00	0.00
ATOM	278	CE2	PHE	17	13.588	8.671	5.224	1.00	0.00
ATOM	279	HE2	PHE	17	13.290	8.713	6.272	1.00	0.00
ATOM	280	CD2	PHE	17	12.996	9.530	4.295	1.00	0.00
ATOM	281	HD2	PHE	17	12.234	10.240	4.617	1.00	0.00
ATOM	282	C	PHE	17	10.934	8.604	1.749	1.00	0.00
ATOM	283	O	PHE	17	11.511	7.561	2.058	1.00	0.00
ATOM	284	N	CYX	18	9.677	8.866	2.074	1.00	0.00
ATOM	285	H	CYX	18	9.271	9.731	1.746	1.00	0.00
ATOM	286	CA	CYX	18	8.856	7.980	2.851	1.00	0.00
ATOM	287	HA	CYX	18	9.510	7.336	3.438	1.00	0.00

ATOM	288	CB	CYX	18	7.933	8.681	3.771	1.00	0.00
ATOM	289	HB2	CYX	18	7.425	9.483	3.235	1.00	0.00
ATOM	290	HB3	CYX	18	7.195	7.976	4.153	1.00	0.00
ATOM	291	SG	CYX	18	8.981	9.396	5.156	1.00	0.00
ATOM	292	C	CYX	18	7.958	7.108	1.897	1.00	0.00
ATOM	293	O	CYX	18	7.232	6.284	2.459	1.00	0.00
ATOM	294	N	ARG	19	8.000	7.292	0.561	1.00	0.00
ATOM	295	H	ARG	19	8.698	7.858	0.101	1.00	0.00
ATOM	296	CA	ARG	19	6.980	6.656	-0.257	1.00	0.00
ATOM	297	HA	ARG	19	6.011	6.825	0.213	1.00	0.00
ATOM	298	CB	ARG	19	6.927	7.177	-1.663	1.00	0.00
ATOM	299	HB2	ARG	19	7.938	7.279	-2.058	1.00	0.00
ATOM	300	HB3	ARG	19	6.359	6.490	-2.291	1.00	0.00
ATOM	301	CG	ARG	19	6.240	8.550	-1.658	1.00	0.00
ATOM	302	HG2	ARG	19	5.203	8.379	-1.367	1.00	0.00
ATOM	303	HG3	ARG	19	6.738	9.145	-0.893	1.00	0.00
ATOM	304	CD	ARG	19	6.276	9.280	-2.955	1.00	0.00
ATOM	305	HD2	ARG	19	7.309	9.407	-3.278	1.00	0.00
ATOM	306	HD3	ARG	19	5.726	8.718	-3.710	1.00	0.00
ATOM	307	NE	ARG	19	5.667	10.591	-2.817	1.00	0.00
ATOM	308	HE	ARG	19	4.972	10.675	-2.089	1.00	0.00
ATOM	309	CZ	ARG	19	5.975	11.663	-3.518	1.00	0.00

ATOM	310	NH1	ARG	19	6.923	11.633	-4.442	1.00	0.00
ATOM	311	HH11	ARG	19	7.424	10.775	-4.619	1.00	0.00
ATOM	312	HH12	ARG	19	7.140	12.469	-4.966	1.00	0.00
ATOM	313	NH2	ARG	19	5.265	12.795	-3.314	1.00	0.00
ATOM	314	HH21	ARG	19	4.517	12.803	-2.635	1.00	0.00
ATOM	315	HH22	ARG	19	5.485	13.628	-3.842	1.00	0.00
ATOM	316	C	ARG	19	7.274	5.134	-0.305	1.00	0.00
ATOM	317	O	ARG	19	6.364	4.385	-0.117	1.00	0.00
ATOM	318	N	CYX	20	8.542	4.819	-0.475	1.00	0.00
ATOM	319	H	CYX	20	9.242	5.512	-0.699	1.00	0.00
ATOM	320	CA	CYX	20	8.922	3.344	-0.585	1.00	0.00
ATOM	321	HA	CYX	20	8.176	2.850	-1.209	1.00	0.00
ATOM	322	CB	CYX	20	10.286	3.103	-1.182	1.00	0.00
ATOM	323	HB2	CYX	20	11.035	3.652	-0.611	1.00	0.00
ATOM	324	HB3	CYX	20	10.514	2.038	-1.151	1.00	0.00
ATOM	325	SG	CYX	20	10.304	3.470	-2.944	1.00	0.00
ATOM	326	C	CYX	20	8.676	2.634	0.732	1.00	0.00
ATOM	327	O	CYX	20	8.021	1.586	0.754	1.00	0.00
ATOM	328	N	PRO	21	9.112	3.189	1.863	1.00	0.00
ATOM	329	CD	PRO	21	10.201	4.166	2.030	1.00	0.00
ATOM	330	HD2	PRO	21	9.876	5.138	1.656	1.00	0.00
ATOM	331	HD3	PRO	21	11.074	3.835	1.468	1.00	0.00



ATOM	332	CG	PRO	21	10.437	4.169	3.488	1.00	0.00
ATOM	333	HG2	PRO	21	10.661	5.193	3.788	1.00	0.00
ATOM	334	HG3	PRO	21	11.300	3.535	3.688	1.00	0.00
ATOM	335	CB	PRO	21	9.287	3.679	4.146	1.00	0.00
ATOM	336	HB2	PRO	21	8.556	4.464	4.341	1.00	0.00
ATOM	337	HB3	PRO	21	9.543	3.181	5.081	1.00	0.00
ATOM	338	CA	PRO	21	8.704	2.656	3.147	1.00	0.00
ATOM	339	HA	PRO	21	9.176	1.678	3.239	1.00	0.00
ATOM	340	C	PRO	21	7.224	2.517	3.345	1.00	0.00
ATOM	341	O	PRO	21	6.740	1.481	3.883	1.00	0.00
ATOM	342	N	SER	22	6.411	3.484	2.881	1.00	0.00
ATOM	343	H	SER	22	6.796	4.292	2.412	1.00	0.00
ATOM	344	CA	SER	22	5.046	3.443	3.103	1.00	0.00
ATOM	345	HA	SER	22	4.861	3.159	4.139	1.00	0.00
ATOM	346	CB	SER	22	4.382	4.804	2.841	1.00	0.00
ATOM	347	HB2	SER	22	4.664	5.206	1.867	1.00	0.00
ATOM	348	HB3	SER	22	3.296	4.738	2.905	1.00	0.00
ATOM	349	OG	SER	22	4.857	5.648	3.848	1.00	0.00
ATOM	350	HG	SER	22	4.475	6.523	3.739	1.00	0.00
ATOM	351	C	SER	22	4.342	2.320	2.237	1.00	0.00
ATOM	352	O	SER	22	3.405	1.752	2.682	1.00	0.00
ATOM	353	N	LEU	23	4.858	2.187	1.039	1.00	0.00

ATOM	354	H	LEU	23	5.599	2.811	0.751	1.00	0.00
ATOM	355	CA	LEU	23	4.376	1.181	0.073	1.00	0.00
ATOM	356	HA	LEU	23	3.297	1.304	-0.022	1.00	0.00
ATOM	357	CB	LEU	23	4.992	1.277	-1.293	1.00	0.00
ATOM	358	HB2	LEU	23	5.999	1.655	-1.119	1.00	0.00
ATOM	359	HB3	LEU	23	5.046	0.344	-1.853	1.00	0.00
ATOM	360	CG	LEU	23	4.187	2.314	-2.101	1.00	0.00
ATOM	361	HG	LEU	23	4.038	3.227	-1.524	1.00	0.00
ATOM	362	CD1	LEU	23	4.986	2.621	-3.314	1.00	0.00
ATOM	363	HD11	LEU	23	5.134	1.709	-3.892	1.00	0.00
ATOM	364	HD12	LEU	23	4.456	3.354	-3.923	1.00	0.00
ATOM	365	HD13	LEU	23	5.954	3.026	-3.019	1.00	0.00
ATOM	366	CD2	LEU	23	2.807	1.883	-2.374	1.00	0.00
ATOM	367	HD21	LEU	23	2.284	1.719	-1.432	1.00	0.00
ATOM	368	HD22	LEU	23	2.291	2.655	-2.946	1.00	0.00
ATOM	369	HD23	LEU	23	2.822	0.956	-2.947	1.00	0.00
ATOM	370	C	LEU	23	4.708	-0.183	0.735	1.00	0.00
ATOM	371	O	LEU	23	3.884	-1.075	0.554	1.00	0.00
ATOM	372	N	ARG	24	5.869	-0.344	1.299	1.00	0.00
ATOM	373	H	ARG	24	6.561	0.391	1.326	1.00	0.00
ATOM	374	CA	ARG	24	6.171	-1.643	2.018	1.00	0.00
ATOM	375	HA	ARG	24	6.212	-2.463	1.302	1.00	0.00

ATOM	376	CB	ARG	24	7.487	-1.551	2.715	1.00	0.00
ATOM	377	HB2	ARG	24	8.264	-1.426	1.961	1.00	0.00
ATOM	378	HB3	ARG	24	7.469	-0.676	3.365	1.00	0.00
ATOM	379	CG	ARG	24	7.781	-2.805	3.552	1.00	0.00
ATOM	380	HG2	ARG	24	7.017	-2.899	4.323	1.00	0.00
ATOM	381	HG3	ARG	24	7.748	-3.678	2.900	1.00	0.00
ATOM	382	CD	ARG	24	9.150	-2.712	4.204	1.00	0.00
ATOM	383	HD2	ARG	24	9.136	-1.849	4.870	1.00	0.00
ATOM	384	HD3	ARG	24	9.295	-3.620	4.789	1.00	0.00
ATOM	385	NE	ARG	24	10.269	-2.569	3.277	1.00	0.00
ATOM	386	HE	ARG	24	10.547	-1.624	3.051	1.00	0.00
ATOM	387	CZ	ARG	24	10.956	-3.585	2.735	1.00	0.00
ATOM	388	NH1	ARG	24	10.617	-4.876	2.942	1.00	0.00
ATOM	389	HH11	ARG	24	9.821	-5.099	3.522	1.00	0.00
ATOM	390	HH12	ARG	24	11.160	-5.612	2.515	1.00	0.00
ATOM	391	NH2	ARG	24	11.995	-3.298	1.942	1.00	0.00
ATOM	392	HH21	ARG	24	12.241	-2.334	1.767	1.00	0.00
ATOM	393	HH22	ARG	24	12.527	-4.046	1.522	1.00	0.00
ATOM	394	C	ARG	24	5.116	-1.867	3.119	1.00	0.00
ATOM	395	O	ARG	24	4.544	-3.004	3.290	1.00	0.00
ATOM	396	N	GLN	25	4.810	-0.843	3.915	1.00	0.00
ATOM	397	H	GLN	25	5.330	0.023	3.907	1.00	0.00

ATOM	398	CA	GLN	25	3.721	-0.999	4.909	1.00	0.00
ATOM	399	HA	GLN	25	3.922	-1.864	5.541	1.00	0.00
ATOM	400	CB	GLN	25	3.613	0.261	5.812	1.00	0.00
ATOM	401	HB2	GLN	25	3.395	1.124	5.182	1.00	0.00
ATOM	402	HB3	GLN	25	2.797	0.114	6.519	1.00	0.00
ATOM	403	CG	GLN	25	4.916	0.506	6.580	1.00	0.00
ATOM	404	HG2	GLN	25	5.318	-0.464	6.872	1.00	0.00
ATOM	405	HG3	GLN	25	5.634	1.019	5.939	1.00	0.00
ATOM	406	CD	GLN	25	4.700	1.345	7.841	1.00	0.00
ATOM	407	OE1	GLN	25	4.561	2.591	7.793	1.00	0.00
ATOM	408	NE2	GLN	25	4.698	0.666	8.990	1.00	0.00
ATOM	409	HE21	GLN	25	4.560	1.156	9.862	1.00	0.00
ATOM	410	HE22	GLN	25	4.833	-0.334	8.982	1.00	0.00
ATOM	411	C	GLN	25	2.360	-1.290	4.343	1.00	0.00
ATOM	412	O	GLN	25	1.552	-2.057	4.861	1.00	0.00
ATOM	413	N	ALA	26	2.039	-0.760	3.115	1.00	0.00
ATOM	414	H	ALA	26	2.671	-0.114	2.663	1.00	0.00
ATOM	415	CA	ALA	26	0.838	-1.087	2.458	1.00	0.00
ATOM	416	HA	ALA	26	0.010	-0.858	3.129	1.00	0.00
ATOM	417	CB	ALA	26	0.705	-0.236	1.221	1.00	0.00
ATOM	418	HB1	ALA	26	1.522	-0.460	0.535	1.00	0.00
ATOM	419	HB2	ALA	26	-0.247	-0.449	0.733	1.00	0.00

ATOM	420	HB3	ALA	26	0.743	0.818	1.498	1.00	0.00
ATOM	421	C	ALA	26	0.726	-2.591	2.004	1.00	0.00
ATOM	422	O	ALA	26	-0.402	-3.073	2.031	1.00	0.00
ATOM	423	N	VAL	27	1.825	-3.087	1.556	1.00	0.00
ATOM	424	H	VAL	27	2.641	-2.495	1.490	1.00	0.00
ATOM	425	CA	VAL	27	1.945	-4.549	1.096	1.00	0.00
ATOM	426	HA	VAL	27	1.170	-4.678	0.340	1.00	0.00
ATOM	427	CB	VAL	27	3.251	-4.955	0.512	1.00	0.00
ATOM	428	HB	VAL	27	4.054	-4.696	1.201	1.00	0.00
ATOM	429	CG1	VAL	27	3.253	-6.473	0.270	1.00	0.00
ATOM	430	HG11	VAL	27	2.450	-6.732	-0.420	1.00	0.00
ATOM	431	HG12	VAL	27	4.209	-6.772	-0.158	1.00	0.00
ATOM	432	HG13	VAL	27	3.100	-6.992	1.216	1.00	0.00
ATOM	433	CG2	VAL	27	3.530	-4.294	-0.866	1.00	0.00
ATOM	434	HG21	VAL	27	3.540	-3.209	-0.754	1.00	0.00
ATOM	435	HG22	VAL	27	4.497	-4.629	-1.241	1.00	0.00
ATOM	436	HG23	VAL	27	2.749	-4.579	-1.571	1.00	0.00
ATOM	437	C	VAL	27	1.672	-5.375	2.371	1.00	0.00
ATOM	438	O	VAL	27	0.771	-6.249	2.335	1.00	0.00
ATOM	439	N	GLN	28	2.304	-5.014	3.490	1.00	0.00
ATOM	440	H	GLN	28	3.008	-4.290	3.484	1.00	0.00
ATOM	441	CA	GLN	28	2.068	-5.751	4.748	1.00	0.00

ATOM	442	HA	GLN	28	2.262	-6.814	4.610	1.00	0.00
ATOM	443	CB	GLN	28	2.995	-5.228	5.799	1.00	0.00
ATOM	444	HB2	GLN	28	2.872	-4.145	5.837	1.00	0.00
ATOM	445	HB3	GLN	28	2.690	-5.661	6.752	1.00	0.00
ATOM	446	CG	GLN	28	4.389	-5.549	5.545	1.00	0.00
ATOM	447	HG2	GLN	28	4.553	-6.601	5.777	1.00	0.00
ATOM	448	HG3	GLN	28	4.640	-5.364	4.500	1.00	0.00
ATOM	449	CD	GLN	28	5.311	-4.704	6.426	1.00	0.00
ATOM	450	OE1	GLN	28	4.846	-3.922	7.239	1.00	0.00
ATOM	451	NE2	GLN	28	6.606	-4.850	6.243	1.00	0.00
ATOM	452	HE21	GLN	28	7.255	-4.314	6.800	1.00	0.00
ATOM	453	HE22	GLN	28	6.944	-5.497	5.545	1.00	0.00
ATOM	454	C	GLN	28	0.643	-5.672	5.129	1.00	0.00
ATOM	455	O	GLN	28	-0.001	-6.652	5.576	1.00	0.00
ATOM	456	N	SER	29	0.045	-4.464	5.126	1.00	0.00
ATOM	457	H	SER	29	0.578	-3.630	4.925	1.00	0.00
ATOM	458	CA	SER	29	-1.337	-4.320	5.458	1.00	0.00
ATOM	459	HA	SER	29	-1.546	-4.751	6.437	1.00	0.00
ATOM	460	CB	SER	29	-1.672	-2.841	5.498	1.00	0.00
ATOM	461	HB2	SER	29	-1.466	-2.380	4.532	1.00	0.00
ATOM	462	HB3	SER	29	-2.723	-2.697	5.752	1.00	0.00
ATOM	463	OG	SER	29	-0.871	-2.248	6.477	1.00	0.00

ATOM	464	HG	SER	29	-1.064	-1.308	6.522	1.00	0.00
ATOM	465	C	SER	29	-2.347	-4.989	4.573	1.00	0.00
ATOM	466	O	SER	29	-3.437	-5.435	5.006	1.00	0.00
ATOM	467	N	ALA	30	-2.038	-5.009	3.268	1.00	0.00
ATOM	468	H	ALA	30	-1.252	-4.486	2.910	1.00	0.00
ATOM	469	CA	ALA	30	-2.876	-5.698	2.334	1.00	0.00
ATOM	470	HA	ALA	30	-3.886	-5.306	2.457	1.00	0.00
ATOM	471	CB	ALA	30	-2.421	-5.426	0.917	1.00	0.00
ATOM	472	HB1	ALA	30	-1.415	-5.821	0.776	1.00	0.00
ATOM	473	HB2	ALA	30	-3.103	-5.909	0.217	1.00	0.00
ATOM	474	HB3	ALA	30	-2.418	-4.351	0.736	1.00	0.00
ATOM	475	C	ALA	30	-2.939	-7.202	2.609	1.00	0.00
ATOM	476	O	ALA	30	-3.936	-7.801	2.391	1.00	0.00
ATOM	477	N	GLN	31	-1.881	-7.740	3.102	1.00	0.00
ATOM	478	H	GLN	31	-1.039	-7.198	3.232	1.00	0.00
ATOM	479	CA	GLN	31	-1.866	-9.197	3.503	1.00	0.00
ATOM	480	HA	GLN	31	-2.110	-9.824	2.645	1.00	0.00
ATOM	481	CB	GLN	31	-0.534	-9.566	3.990	1.00	0.00
ATOM	482	HB2	GLN	31	-0.270	-8.903	4.814	1.00	0.00
ATOM	483	HB3	GLN	31	-0.568	-10.595	4.348	1.00	0.00
ATOM	484	CG	GLN	31	0.477	-9.450	2.922	1.00	0.00
ATOM	485	HG2	GLN	31	0.148	-10.099	2.110	1.00	0.00

ATOM	486	HG3	GLN	31	0.511	-8.418	2.570	1.00	0.00
ATOM	487	CD	GLN	31	1.845	-9.858	3.331	1.00	0.00
ATOM	488	OE1	GLN	31	2.803	-9.117	3.231	1.00	0.00
ATOM	489	NE2	GLN	31	1.944	-11.088	3.774	1.00	0.00
ATOM	490	HE21	GLN	31	2.841	-11.443	4.072	1.00	0.00
ATOM	491	HE22	GLN	31	1.122	-11.674	3.815	1.00	0.00
ATOM	492	C	GLN	31	-2.855	-9.511	4.601	1.00	0.00
ATOM	493	O	GLN	31	-3.387	-10.593	4.633	1.00	0.00
ATOM	494	N	GLN	32	-3.144	-8.564	5.476	1.00	0.00
ATOM	495	H	GLN	32	-2.665	-7.675	5.442	1.00	0.00
ATOM	496	CA	GLN	32	-4.126	-8.773	6.514	1.00	0.00
ATOM	497	HA	GLN	32	-3.918	-9.704	7.041	1.00	0.00
ATOM	498	CB	GLN	32	-4.082	-7.617	7.523	1.00	0.00
ATOM	499	HB2	GLN	32	-4.215	-6.682	6.978	1.00	0.00
ATOM	500	HB3	GLN	32	-4.904	-7.746	8.227	1.00	0.00
ATOM	501	CG	GLN	32	-2.777	-7.578	8.276	1.00	0.00
ATOM	502	HG2	GLN	32	-2.251	-8.529	8.202	1.00	0.00
ATOM	503	HG3	GLN	32	-2.156	-6.786	7.857	1.00	0.00
ATOM	504	CD	GLN	32	-3.025	-7.277	9.728	1.00	0.00
ATOM	505	OE1	GLN	32	-3.372	-6.152	10.091	1.00	0.00
ATOM	506	NE2	GLN	32	-2.880	-8.288	10.563	1.00	0.00
ATOM	507	HE21	GLN	32	-3.033	-8.148	11.551	1.00	0.00



ATOM	508	HE22	GLN	32	-2.617	-9.197	10.210	1.00	0.00
ATOM	509	C	GLN	32	-5.536	-8.886	6.038	1.00	0.00
ATOM	510	O	GLN	32	-6.368	-9.547	6.683	1.00	0.00
ATOM	511	N	GLN	33	-5.825	-8.256	4.912	1.00	0.00
ATOM	512	H	GLN	33	-5.137	-7.656	4.480	1.00	0.00
ATOM	513	CA	GLN	33	-7.131	-8.348	4.303	1.00	0.00
ATOM	514	HA	GLN	33	-7.911	-8.331	5.064	1.00	0.00
ATOM	515	CB	GLN	33	-7.331	-7.145	3.369	1.00	0.00
ATOM	516	HB2	GLN	33	-6.736	-7.330	2.474	1.00	0.00
ATOM	517	HB3	GLN	33	-8.388	-7.117	3.102	1.00	0.00
ATOM	518	CG	GLN	33	-6.921	-5.791	3.989	1.00	0.00
ATOM	519	HG2	GLN	33	-7.324	-5.705	4.998	1.00	0.00
ATOM	520	HG3	GLN	33	-5.832	-5.763	4.029	1.00	0.00
ATOM	521	CD	GLN	33	-7.405	-4.613	3.174	1.00	0.00
ATOM	522	OE1	GLN	33	-6.688	-4.078	2.308	1.00	0.00
ATOM	523	NE2	GLN	33	-8.650	-4.215	3.424	1.00	0.00
ATOM	524	HE21	GLN	33	-9.039	-3.433	2.916	1.00	0.00
ATOM	525	HE22	GLN	33	-9.201	-4.696	4.120	1.00	0.00
ATOM	526	C	GLN	33	-7.284	-9.685	3.547	1.00	0.00
ATOM	527	O	GLN	33	-8.300	-9.917	2.934	1.00	0.00
ATOM	528	N	GLN	34	-6.244	-10.513	3.513	1.00	0.00
ATOM	529	H	GLN	34	-5.387	-10.244	3.974	1.00	0.00

ATOM	530	CA	GLN	34	-6.282	-11.802	2.813	1.00	0.00
ATOM	531	HA	GLN	34	-7.263	-11.969	2.367	1.00	0.00
ATOM	532	CB	GLN	34	-5.227	-11.787	1.690	1.00	0.00
ATOM	533	HB2	GLN	34	-4.249	-11.713	2.165	1.00	0.00
ATOM	534	HB3	GLN	34	-5.303	-12.737	1.161	1.00	0.00
ATOM	535	CG	GLN	34	-5.397	-10.650	0.710	1.00	0.00
ATOM	536	HG2	GLN	34	-6.402	-10.673	0.288	1.00	0.00
ATOM	537	HG3	GLN	34	-5.260	-9.724	1.269	1.00	0.00
ATOM	538	CD	GLN	34	-4.398	-10.683	-0.421	1.00	0.00
ATOM	539	OE1	GLN	34	-4.514	-11.467	-1.362	1.00	0.00
ATOM	540	NE2	GLN	34	-3.431	-9.802	-0.348	1.00	0.00
ATOM	541	HE21	GLN	34	-2.728	-9.768	-1.072	1.00	0.00
ATOM	542	HE22	GLN	34	-3.394	-9.161	0.431	1.00	0.00
ATOM	543	C	GLN	34	-6.016	-13.035	3.651	1.00	0.00
ATOM	544	O	GLN	34	-6.436	-14.132	3.264	1.00	0.00
ATOM	545	N	GLY	35	-5.249	-12.920	4.731	1.00	0.00
ATOM	546	H	GLY	35	-4.996	-12.017	5.106	1.00	0.00
ATOM	547	CA	GLY	35	-4.747	-14.122	5.410	1.00	0.00
ATOM	548	HA2	GLY	35	-4.172	-13.827	6.287	1.00	0.00
ATOM	549	HA3	GLY	35	-5.590	-14.740	5.719	1.00	0.00
ATOM	550	C	GLY	35	-3.849	-14.936	4.477	1.00	0.00
ATOM	551	O	GLY	35	-3.157	-14.353	3.652	1.00	0.00

ATOM	552	N	GLN	36	-3.895	-16.266	4.577	1.00	0.00
ATOM	553	H	GLN	36	-4.649	-16.692	5.097	1.00	0.00
ATOM	554	CA	GLN	36	-2.818	-17.136	4.066	1.00	0.00
ATOM	555	HA	GLN	36	-1.905	-16.918	4.619	1.00	0.00
ATOM	556	CB	GLN	36	-3.139	-18.650	4.214	1.00	0.00
ATOM	557	HB2	GLN	36	-4.219	-18.723	4.342	1.00	0.00
ATOM	558	HB3	GLN	36	-2.853	-19.117	3.272	1.00	0.00
ATOM	559	CG	GLN	36	-2.438	-19.366	5.373	1.00	0.00
ATOM	560	HG2	GLN	36	-2.704	-18.879	6.311	1.00	0.00
ATOM	561	HG3	GLN	36	-2.782	-20.400	5.390	1.00	0.00
ATOM	562	CD	GLN	36	-0.923	-19.360	5.234	1.00	0.00
ATOM	563	OE1	GLN	36	-0.355	-20.018	4.354	1.00	0.00
ATOM	564	NE2	GLN	36	-0.262	-18.599	6.098	1.00	0.00
ATOM	565	HE21	GLN	36	0.746	-18.552	6.057	1.00	0.00
ATOM	566	HE22	GLN	36	-0.771	-18.070	6.792	1.00	0.00
ATOM	567	C	GLN	36	-2.438	-16.811	2.627	1.00	0.00
ATOM	568	O	GLN	36	-3.150	-17.120	1.678	1.00	0.00
ATOM	569	N	VAL	37	-1.297	-16.155	2.497	1.00	0.00
ATOM	570	H	VAL	37	-0.829	-15.828	3.329	1.00	0.00
ATOM	571	CA	VAL	37	-0.741	-15.799	1.215	1.00	0.00
ATOM	572	HA	VAL	37	-1.252	-16.276	0.378	1.00	0.00
ATOM	573	CB	VAL	37	-0.751	-14.240	0.988	1.00	0.00

ATOM	574	HB	VAL	37	-1.780	-13.940	0.789	1.00	0.00
ATOM	575	CG1	VAL	37	-0.217	-13.460	2.184	1.00	0.00
ATOM	576	HG11	VAL	37	0.812	-13.758	2.383	1.00	0.00
ATOM	577	HG12	VAL	37	-0.250	-12.392	1.966	1.00	0.00
ATOM	578	HG13	VAL	37	-0.832	-13.670	3.059	1.00	0.00
ATOM	579	CG2	VAL	37	-0.006	-13.851	-0.259	1.00	0.00
ATOM	580	HG21	VAL	37	-0.471	-14.324	-1.124	1.00	0.00
ATOM	581	HG22	VAL	37	-0.037	-12.768	-0.379	1.00	0.00
ATOM	582	HG23	VAL	37	1.031	-14.178	-0.181	1.00	0.00
ATOM	583	C	VAL	37	0.658	-16.446	1.213	1.00	0.00
ATOM	584	O	VAL	37	1.497	-16.215	2.103	1.00	0.00
ATOM	585	N	GLY	38	0.877	-17.267	0.217	1.00	0.00
ATOM	586	H	GLY	38	0.140	-17.541	-0.418	1.00	0.00
ATOM	587	CA	GLY	38	2.217	-17.812	0.001	1.00	0.00
ATOM	588	HA2	GLY	38	2.456	-18.374	0.904	1.00	0.00
ATOM	589	HA3	GLY	38	2.124	-18.499	-0.840	1.00	0.00
ATOM	590	C	GLY	38	3.339	-16.832	-0.283	1.00	0.00
ATOM	591	O	GLY	38	3.097	-15.688	-0.663	1.00	0.00
ATOM	592	N	PRO	39	4.582	-17.266	-0.120	1.00	0.00
ATOM	593	CD	PRO	39	4.998	-18.616	0.360	1.00	0.00
ATOM	594	HD2	PRO	39	4.476	-19.384	-0.211	1.00	0.00
ATOM	595	HD3	PRO	39	4.753	-18.720	1.417	1.00	0.00

ATOM	596	CG	PRO	39	6.450	-18.620	0.117	1.00	0.00
ATOM	597	HG2	PRO	39	6.642	-19.090	-0.848	1.00	0.00
ATOM	598	HG3	PRO	39	6.935	-19.196	0.904	1.00	0.00
ATOM	599	CB	PRO	39	6.910	-17.210	0.133	1.00	0.00
ATOM	600	HB2	PRO	39	7.779	-17.025	-0.499	1.00	0.00
ATOM	601	HB3	PRO	39	7.135	-16.909	1.156	1.00	0.00
ATOM	602	CA	PRO	39	5.728	-16.432	-0.383	1.00	0.00
ATOM	603	HA	PRO	39	5.638	-15.550	0.251	1.00	0.00
ATOM	604	C	PRO	39	5.854	-16.005	-1.816	1.00	0.00
ATOM	605	O	PRO	39	6.392	-14.855	-2.061	1.00	0.00
ATOM	606	N	GLN	40	5.347	-16.760	-2.803	1.00	0.00
ATOM	607	H	GLN	40	4.924	-17.660	-2.627	1.00	0.00
ATOM	608	CA	GLN	40	5.476	-16.333	-4.138	1.00	0.00
ATOM	609	HA	GLN	40	6.481	-15.946	-4.308	1.00	0.00
ATOM	610	CB	GLN	40	5.236	-17.483	-5.083	1.00	0.00
ATOM	611	HB2	GLN	40	4.261	-17.921	-4.870	1.00	0.00
ATOM	612	HB3	GLN	40	5.249	-17.110	-6.107	1.00	0.00
ATOM	613	CG	GLN	40	6.314	-18.541	-4.915	1.00	0.00
ATOM	614	HG2	GLN	40	7.295	-18.183	-5.227	1.00	0.00
ATOM	615	HG3	GLN	40	6.323	-18.735	-3.843	1.00	0.00
ATOM	616	CD	GLN	40	6.014	-19.860	-5.652	1.00	0.00
ATOM	617	OE1	GLN	40	5.479	-20.827	-5.090	1.00	0.00

ATOM	618	NE2	GLN	40	6.253	-19.848	-6.882	1.00	0.00
ATOM	619	HE21	GLN	40	6.082	-20.676	-7.435	1.00	0.00
ATOM	620	HE22	GLN	40	6.615	-19.010	-7.315	1.00	0.00
ATOM	621	C	GLN	40	4.498	-15.158	-4.359	1.00	0.00
ATOM	622	O	GLN	40	4.820	-14.155	-5.014	1.00	0.00
ATOM	623	N	GLN	41	3.271	-15.324	-3.871	1.00	0.00
ATOM	624	H	GLN	41	2.980	-16.211	-3.485	1.00	0.00
ATOM	625	CA	GLN	41	2.282	-14.237	-3.944	1.00	0.00
ATOM	626	HA	GLN	41	2.182	-13.914	-4.981	1.00	0.00
ATOM	627	CB	GLN	41	0.924	-14.675	-3.442	1.00	0.00
ATOM	628	HB2	GLN	41	0.661	-15.637	-3.881	1.00	0.00
ATOM	629	HB3	GLN	41	0.943	-14.764	-2.356	1.00	0.00
ATOM	630	CG	GLN	41	-0.112	-13.632	-3.848	1.00	0.00
ATOM	631	HG2	GLN	41	0.095	-12.739	-3.258	1.00	0.00
ATOM	632	HG3	GLN	41	0.034	-13.410	-4.905	1.00	0.00
ATOM	633	CD	GLN	41	-1.546	-14.026	-3.634	1.00	0.00
ATOM	634	OE1	GLN	41	-1.896	-15.211	-3.525	1.00	0.00
ATOM	635	NE2	GLN	41	-2.398	-13.026	-3.587	1.00	0.00
ATOM	636	HE21	GLN	41	-3.381	-13.210	-3.446	1.00	0.00
ATOM	637	HE22	GLN	41	-2.066	-12.078	-3.692	1.00	0.00
ATOM	638	C	GLN	41	2.708	-12.995	-3.177	1.00	0.00
ATOM	639	O	GLN	41	2.553	-11.868	-3.679	1.00	0.00

ATOM	640	N	VAL	42	3.315	-13.197	-2.040	1.00	0.00
ATOM	641	H	VAL	42	3.437	-14.110	-1.626	1.00	0.00
ATOM	642	CA	VAL	42	3.856	-12.005	-1.306	1.00	0.00
ATOM	643	HA	VAL	42	3.096	-11.251	-1.097	1.00	0.00
ATOM	644	CB	VAL	42	4.520	-12.411	0.014	1.00	0.00
ATOM	645	HB	VAL	42	5.182	-13.253	-0.187	1.00	0.00
ATOM	646	CG1	VAL	42	5.327	-11.264	0.639	1.00	0.00
ATOM	647	HG11	VAL	42	4.665	-10.421	0.840	1.00	0.00
ATOM	648	HG12	VAL	42	5.777	-11.602	1.572	1.00	0.00
ATOM	649	HG13	VAL	42	6.111	-10.953	-0.051	1.00	0.00
ATOM	650	CG2	VAL	42	3.441	-12.929	0.926	1.00	0.00
ATOM	651	HG21	VAL	42	2.956	-13.789	0.464	1.00	0.00
ATOM	652	HG22	VAL	42	3.881	-13.227	1.877	1.00	0.00
ATOM	653	HG23	VAL	42	2.702	-12.145	1.097	1.00	0.00
ATOM	654	C	VAL	42	4.891	-11.301	-2.177	1.00	0.00
ATOM	655	O	VAL	42	4.907	-10.044	-2.273	1.00	0.00
ATOM	656	N	GLY	43	5.846	-12.013	-2.766	1.00	0.00
ATOM	657	H	GLY	43	5.918	-13.009	-2.619	1.00	0.00
ATOM	658	CA	GLY	43	6.782	-11.395	-3.612	1.00	0.00
ATOM	659	HA2	GLY	43	7.343	-10.671	-3.022	1.00	0.00
ATOM	660	HA3	GLY	43	7.459	-12.163	-3.984	1.00	0.00
ATOM	661	C	GLY	43	6.159	-10.696	-4.772	1.00	0.00

ATOM	662	O	GLY	43	6.550	-9.567	-5.047	1.00	0.00
ATOM	663	N	HIE	44	5.176	-11.244	-5.407	1.00	0.00
ATOM	664	H	HIE	44	5.000	-12.229	-5.271	1.00	0.00
ATOM	665	CA	HIE	44	4.411	-10.541	-6.425	1.00	0.00
ATOM	666	HA	HIE	44	5.074	-10.159	-7.201	1.00	0.00
ATOM	667	CB	HIE	44	3.406	-11.510	-7.071	1.00	0.00
ATOM	668	HB2	HIE	44	3.816	-12.408	-7.534	1.00	0.00
ATOM	669	HB3	HIE	44	2.760	-11.792	-6.239	1.00	0.00
ATOM	670	CG	HIE	44	2.528	-10.866	-8.093	1.00	0.00
ATOM	671	ND1	HIE	44	3.015	-10.469	-9.318	1.00	0.00
ATOM	672	CE1	HIE	44	2.041	-9.922	-10.023	1.00	0.00
ATOM	673	HE1	HIE	44	2.204	-9.594	-11.050	1.00	0.00
ATOM	674	NE2	HIE	44	0.961	-9.881	-9.261	1.00	0.00
ATOM	675	HE2	HIE	44	0.059	-9.516	-9.533	1.00	0.00
ATOM	676	CD2	HIE	44	1.256	-10.416	-8.032	1.00	0.00
ATOM	677	HD2	HIE	44	0.505	-10.412	-7.242	1.00	0.00
ATOM	678	C	HIE	44	3.756	-9.249	-5.921	1.00	0.00
ATOM	679	O	HIE	44	3.746	-8.268	-6.643	1.00	0.00
ATOM	680	N	MET	45	3.204	-9.255	-4.738	1.00	0.00
ATOM	681	H	MET	45	3.096	-10.101	-4.198	1.00	0.00
ATOM	682	CA	MET	45	2.598	-8.014	-4.221	1.00	0.00
ATOM	683	HA	MET	45	1.893	-7.613	-4.950	1.00	0.00



ATOM	684	CB	MET	45	1.854	-8.291	-2.928	1.00	0.00
ATOM	685	HB2	MET	45	2.555	-8.753	-2.234	1.00	0.00
ATOM	686	HB3	MET	45	1.521	-7.334	-2.525	1.00	0.00
ATOM	687	CG	MET	45	0.650	-9.208	-3.121	1.00	0.00
ATOM	688	HG2	MET	45	-0.119	-8.614	-3.617	1.00	0.00
ATOM	689	HG3	MET	45	0.971	-10.011	-3.784	1.00	0.00
ATOM	690	SD	MET	45	-0.027	-9.916	-1.625	1.00	0.00
ATOM	691	CE	MET	45	-0.229	-8.336	-0.750	1.00	0.00
ATOM	692	HE1	MET	45	-0.901	-7.690	-1.316	1.00	0.00
ATOM	693	HE2	MET	45	-0.649	-8.519	0.239	1.00	0.00
ATOM	694	HE3	MET	45	0.741	-7.850	-0.648	1.00	0.00
ATOM	695	C	MET	45	3.638	-6.922	-4.079	1.00	0.00
ATOM	696	O	MET	45	3.373	-5.754	-4.339	1.00	0.00
ATOM	697	N	TYR	46	4.831	-7.247	-3.625	1.00	0.00
ATOM	698	H	TYR	46	5.011	-8.153	-3.218	1.00	0.00
ATOM	699	CA	TYR	46	5.887	-6.268	-3.606	1.00	0.00
ATOM	700	HA	TYR	46	5.527	-5.360	-3.121	1.00	0.00
ATOM	701	CB	TYR	46	7.114	-6.778	-2.844	1.00	0.00
ATOM	702	HB2	TYR	46	7.293	-7.805	-3.160	1.00	0.00
ATOM	703	HB3	TYR	46	7.954	-6.153	-3.147	1.00	0.00
ATOM	704	CG	TYR	46	6.970	-6.732	-1.361	1.00	0.00
ATOM	705	CD1	TYR	46	7.181	-5.569	-0.639	1.00	0.00

ATOM	706	HD1 TYR	46	7.574	-4.683	-1.138	1.00	0.00
ATOM	707	CE1 TYR	46	6.890	-5.530	0.730	1.00	0.00
ATOM	708	HE1 TYR	46	7.032	-4.586	1.257	1.00	0.00
ATOM	709	CZ TYR	46	6.678	-6.640	1.410	1.00	0.00
ATOM	710	OH TYR	46	6.416	-6.641	2.810	1.00	0.00
ATOM	711	HH TYR	46	6.412	-5.760	3.191	1.00	0.00
ATOM	712	CE2 TYR	46	6.464	-7.817	0.722	1.00	0.00
ATOM	713	HE2 TYR	46	6.180	-8.722	1.258	1.00	0.00
ATOM	714	CD2 TYR	46	6.608	-7.844	-0.625	1.00	0.00
ATOM	715	HD2 TYR	46	6.436	-8.770	-1.173	1.00	0.00
ATOM	716	C TYR	46	6.305	-5.790	-4.980	1.00	0.00
ATOM	717	O TYR	46	6.645	-4.597	-5.213	1.00	0.00
ATOM	718	N ARG	47	6.326	-6.686	-5.957	1.00	0.00
ATOM	719	H ARG	47	6.295	-7.669	-5.729	1.00	0.00
ATOM	720	CA ARG	47	6.555	-6.309	-7.335	1.00	0.00
ATOM	721	HA ARG	47	7.478	-5.735	-7.413	1.00	0.00
ATOM	722	CB ARG	47	6.677	-7.555	-8.219	1.00	0.00
ATOM	723	HB2 ARG	47	7.410	-8.223	-7.767	1.00	0.00
ATOM	724	HB3 ARG	47	5.705	-8.048	-8.248	1.00	0.00
ATOM	725	CG ARG	47	7.115	-7.208	-9.645	1.00	0.00
ATOM	726	HG2 ARG	47	6.514	-6.379	-10.020	1.00	0.00
ATOM	727	HG3 ARG	47	8.166	-6.922	-9.644	1.00	0.00

ATOM	728	CD	ARG	47	6.919	-8.431	-10.549	1.00	0.00
ATOM	729	HD2	ARG	47	7.699	-9.133	-10.255	1.00	0.00
ATOM	730	HD3	ARG	47	5.944	-8.836	-10.277	1.00	0.00
ATOM	731	NE	ARG	47	6.967	-8.256	-12.029	1.00	0.00
ATOM	732	HE	ARG	47	6.078	-8.098	-12.483	1.00	0.00
ATOM	733	CZ	ARG	47	8.074	-8.301	-12.786	1.00	0.00
ATOM	734	NH1	ARG	47	9.293	-8.460	-12.255	1.00	0.00
ATOM	735	HH11	ARG	47	9.396	-8.550	-11.255	1.00	0.00
ATOM	736	HH12	ARG	47	10.103	-8.489	-12.858	1.00	0.00
ATOM	737	NH2	ARG	47	7.967	-8.175	-14.105	1.00	0.00
ATOM	738	HH21	ARG	47	7.057	-8.047	-14.525	1.00	0.00
ATOM	739	HH22	ARG	47	8.796	-8.208	-14.681	1.00	0.00
ATOM	740	C	ARG	47	5.550	-5.325	-7.860	1.00	0.00
ATOM	741	O	ARG	47	5.917	-4.327	-8.503	1.00	0.00
ATOM	742	N	VAL	48	4.290	-5.570	-7.612	1.00	0.00
ATOM	743	H	VAL	48	4.045	-6.392	-7.080	1.00	0.00
ATOM	744	CA	VAL	48	3.209	-4.671	-8.043	1.00	0.00
ATOM	745	HA	VAL	48	3.233	-4.586	-9.130	1.00	0.00
ATOM	746	CB	VAL	48	1.833	-5.203	-7.623	1.00	0.00
ATOM	747	HB	VAL	48	1.879	-5.464	-6.566	1.00	0.00
ATOM	748	CG1	VAL	48	0.744	-4.195	-7.842	1.00	0.00
ATOM	749	HG11	VAL	48	0.697	-3.934	-8.899	1.00	0.00

ATOM	750	HG12 VAL	48	-0.211	-4.617	-7.530	1.00	0.00
ATOM	751	HG13 VAL	48	0.953	-3.300	-7.256	1.00	0.00
ATOM	752	CG2 VAL	48	1.575	-6.423	-8.487	1.00	0.00
ATOM	753	HG21 VAL	48	2.354	-7.164	-8.311	1.00	0.00
ATOM	754	HG22 VAL	48	0.604	-6.849	-8.234	1.00	0.00
ATOM	755	HG23 VAL	48	1.581	-6.132	-9.538	1.00	0.00
ATOM	756	C VAL	48	3.461	-3.347	-7.330	1.00	0.00
ATOM	757	O VAL	48	3.408	-2.238	-7.965	1.00	0.00
ATOM	758	N ALA	49	3.628	-3.391	-6.001	1.00	0.00
ATOM	759	H ALA	49	3.601	-4.260	-5.487	1.00	0.00
ATOM	760	CA ALA	49	3.802	-2.151	-5.254	1.00	0.00
ATOM	761	HA ALA	49	2.903	-1.549	-5.394	1.00	0.00
ATOM	762	CB ALA	49	3.996	-2.405	-3.743	1.00	0.00
ATOM	763	HB1 ALA	49	4.897	-2.998	-3.587	1.00	0.00
ATOM	764	HB2 ALA	49	4.094	-1.452	-3.224	1.00	0.00
ATOM	765	HB3 ALA	49	3.133	-2.944	-3.351	1.00	0.00
ATOM	766	C ALA	49	4.966	-1.370	-5.773	1.00	0.00
ATOM	767	O ALA	49	4.911	-0.083	-5.803	1.00	0.00
ATOM	768	N SER	50	6.065	-2.008	-6.162	1.00	0.00
ATOM	769	H SER	50	6.120	-2.978	-5.886	1.00	0.00
ATOM	770	CA SER	50	7.236	-1.392	-6.735	1.00	0.00
ATOM	771	HA SER	50	7.585	-0.595	-6.079	1.00	0.00

ATOM	772	CB	SER	50	8.386	-2.427	-6.916	1.00	0.00
ATOM	773	HB2	SER	50	9.348	-1.919	-6.975	1.00	0.00
ATOM	774	HB3	SER	50	8.397	-3.131	-6.085	1.00	0.00
ATOM	775	OG	SER	50	8.149	-3.121	-8.114	1.00	0.00
ATOM	776	HG	SER	50	8.844	-3.768	-8.252	1.00	0.00
ATOM	777	C	SER	50	6.998	-0.537	-7.988	1.00	0.00
ATOM	778	O	SER	50	7.750	0.393	-8.229	1.00	0.00
ATOM	779	N	ARG	51	5.926	-0.818	-8.706	1.00	0.00
ATOM	780	H	ARG	51	5.286	-1.529	-8.382	1.00	0.00
ATOM	781	CA	ARG	51	5.640	-0.166	-9.930	1.00	0.00
ATOM	782	HA	ARG	51	6.580	0.134	-10.393	1.00	0.00
ATOM	783	CB	ARG	51	4.888	-1.037	-10.893	1.00	0.00
ATOM	784	HB2	ARG	51	4.019	-1.434	-10.368	1.00	0.00
ATOM	785	HB3	ARG	51	4.556	-0.406	-11.718	1.00	0.00
ATOM	786	CG	ARG	51	5.730	-2.200	-11.445	1.00	0.00
ATOM	787	HG2	ARG	51	6.656	-1.795	-11.851	1.00	0.00
ATOM	788	HG3	ARG	51	5.960	-2.881	-10.626	1.00	0.00
ATOM	789	CD	ARG	51	4.993	-2.946	-12.525	1.00	0.00
ATOM	790	HD2	ARG	51	4.021	-3.255	-12.140	1.00	0.00
ATOM	791	HD3	ARG	51	4.850	-2.282	-13.378	1.00	0.00
ATOM	792	NE	ARG	51	5.732	-4.154	-12.980	1.00	0.00
ATOM	793	HE	ARG	51	5.640	-5.025	-12.477	1.00	0.00

ATOM	794	CZ	ARG	51	6.555	-4.107	-14.020	1.00	0.00
ATOM	795	NH1	ARG	51	6.707	-3.030	-14.695	1.00	0.00
ATOM	796	HH11	ARG	51	6.194	-2.199	-14.437	1.00	0.00
ATOM	797	HH12	ARG	51	7.338	-3.016	-15.483	1.00	0.00
ATOM	798	NH2	ARG	51	7.188	-5.196	-14.385	1.00	0.00
ATOM	799	HH21	ARG	51	7.044	-6.055	-13.874	1.00	0.00
ATOM	800	HH22	ARG	51	7.816	-5.170	-15.175	1.00	0.00
ATOM	801	C	ARG	51	4.807	1.077	-9.685	1.00	0.00
ATOM	802	O	ARG	51	4.660	1.893	-10.577	1.00	0.00
ATOM	803	N	ILE	52	4.215	1.214	-8.478	1.00	0.00
ATOM	804	H	ILE	52	4.343	0.529	-7.748	1.00	0.00
ATOM	805	CA	ILE	52	3.229	2.236	-8.285	1.00	0.00
ATOM	806	HA	ILE	52	2.551	2.329	-9.134	1.00	0.00
ATOM	807	CB	ILE	52	2.413	1.963	-7.002	1.00	0.00
ATOM	808	HB	ILE	52	3.100	1.739	-6.186	1.00	0.00
ATOM	809	CG2	ILE	52	1.547	3.213	-6.626	1.00	0.00
ATOM	810	HG21	ILE	52	0.859	3.438	-7.442	1.00	0.00
ATOM	811	HG22	ILE	52	0.979	3.003	-5.720	1.00	0.00
ATOM	812	HG23	ILE	52	2.199	4.070	-6.455	1.00	0.00
ATOM	813	CG1	ILE	52	1.575	0.705	-7.204	1.00	0.00
ATOM	814	HG12	ILE	52	0.897	0.876	-8.041	1.00	0.00
ATOM	815	HG13	ILE	52	2.246	-0.119	-7.444	1.00	0.00

ATOM	816	CD1	ILE	52	0.766	0.356	-5.956	1.00	0.00
ATOM	817	HD11	ILE	52	0.093	1.180	-5.716	1.00	0.00
ATOM	818	HD12	ILE	52	0.182	-0.546	-6.141	1.00	0.00
ATOM	819	HD13	ILE	52	1.443	0.185	-5.120	1.00	0.00
ATOM	820	C	ILE	52	3.778	3.662	-8.363	1.00	0.00
ATOM	821	O	ILE	52	3.125	4.505	-8.979	1.00	0.00
ATOM	822	N	PRO	53	4.929	3.891	-7.824	1.00	0.00
ATOM	823	CD	PRO	53	5.813	3.119	-6.906	1.00	0.00
ATOM	824	HD2	PRO	53	6.443	2.460	-7.503	1.00	0.00
ATOM	825	HD3	PRO	53	5.188	2.521	-6.243	1.00	0.00
ATOM	826	CG	PRO	53	6.613	4.170	-6.156	1.00	0.00
ATOM	827	HG2	PRO	53	7.590	3.796	-5.851	1.00	0.00
ATOM	828	HG3	PRO	53	6.077	4.540	-5.282	1.00	0.00
ATOM	829	CB	PRO	53	6.737	5.230	-7.190	1.00	0.00
ATOM	830	HB2	PRO	53	7.537	4.925	-7.864	1.00	0.00
ATOM	831	HB3	PRO	53	6.968	6.210	-6.773	1.00	0.00
ATOM	832	CA	PRO	53	5.446	5.284	-7.929	1.00	0.00
ATOM	833	HA	PRO	53	4.716	5.958	-7.479	1.00	0.00
ATOM	834	C	PRO	53	5.682	5.689	-9.385	1.00	0.00
ATOM	835	O	PRO	53	5.219	6.768	-9.763	1.00	0.00
ATOM	836	N	ALA	54	6.232	4.844	-10.273	1.00	0.00
ATOM	837	H	ALA	54	6.774	4.030	-10.023	1.00	0.00

ATOM	838	CA	ALA	54	6.185	5.244	-11.694	1.00	0.00
ATOM	839	HA	ALA	54	6.672	6.218	-11.639	1.00	0.00
ATOM	840	CB	ALA	54	7.023	4.335	-12.550	1.00	0.00
ATOM	841	HB1	ALA	54	6.543	3.359	-12.622	1.00	0.00
ATOM	842	HB2	ALA	54	7.123	4.765	-13.547	1.00	0.00
ATOM	843	HB3	ALA	54	8.010	4.222	-12.103	1.00	0.00
ATOM	844	C	ALA	54	4.879	5.427	-12.325	1.00	0.00
ATOM	845	O	ALA	54	4.697	6.338	-13.134	1.00	0.00
ATOM	846	N	ILE	55	3.897	4.600	-12.039	1.00	0.00
ATOM	847	H	ILE	55	4.118	3.790	-11.479	1.00	0.00
ATOM	848	CA	ILE	55	2.564	4.708	-12.593	1.00	0.00
ATOM	849	HA	ILE	55	2.556	4.800	-13.679	1.00	0.00
ATOM	850	CB	ILE	55	1.704	3.543	-12.183	1.00	0.00
ATOM	851	HB	ILE	55	1.861	3.374	-11.118	1.00	0.00
ATOM	852	CG2	ILE	55	0.218	3.775	-12.447	1.00	0.00
ATOM	853	HG21	ILE	55	0.059	3.944	-13.512	1.00	0.00
ATOM	854	HG22	ILE	55	-0.349	2.900	-12.130	1.00	0.00
ATOM	855	HG23	ILE	55	-0.119	4.648	-11.888	1.00	0.00
ATOM	856	CG1	ILE	55	2.253	2.331	-12.867	1.00	0.00
ATOM	857	HG12	ILE	55	2.051	2.421	-13.935	1.00	0.00
ATOM	858	HG13	ILE	55	3.330	2.304	-12.702	1.00	0.00
ATOM	859	CD1	ILE	55	1.649	1.094	-12.357	1.00	0.00



ATOM	860	HD11	ILE	55	0.572	1.120	-12.522	1.00	0.00
ATOM	861	HD12	ILE	55	2.075	0.239	-12.881	1.00	0.00
ATOM	862	HD13	ILE	55	1.850	1.004	-11.290	1.00	0.00
ATOM	863	C	ILE	55	1.985	6.089	-12.220	1.00	0.00
ATOM	864	O	ILE	55	1.374	6.748	-13.061	1.00	0.00
ATOM	865	N	CYX	56	2.199	6.426	-10.979	1.00	0.00
ATOM	866	H	CYX	56	2.543	5.710	-10.356	1.00	0.00
ATOM	867	CA	CYX	56	1.822	7.727	-10.406	1.00	0.00
ATOM	868	HA	CYX	56	0.841	8.030	-10.773	1.00	0.00
ATOM	869	CB	CYX	56	1.762	7.620	-8.880	1.00	0.00
ATOM	870	HB2	CYX	56	2.767	7.473	-8.486	1.00	0.00
ATOM	871	HB3	CYX	56	1.341	8.537	-8.467	1.00	0.00
ATOM	872	SG	CYX	56	0.513	6.397	-8.283	1.00	0.00
ATOM	873	C	CYX	56	2.608	8.906	-10.815	1.00	0.00
ATOM	874	O	CYX	56	2.293	10.010	-10.391	1.00	0.00
ATOM	875	N	ASN	57	3.745	8.679	-11.459	1.00	0.00
ATOM	876	H	ASN	57	4.024	7.721	-11.616	1.00	0.00
ATOM	877	CA	ASN	57	4.701	9.754	-11.807	1.00	0.00
ATOM	878	HA	ASN	57	5.567	9.354	-12.335	1.00	0.00
ATOM	879	CB	ASN	57	3.987	10.732	-12.720	1.00	0.00
ATOM	880	HB2	ASN	57	2.978	10.395	-12.960	1.00	0.00
ATOM	881	HB3	ASN	57	3.934	11.672	-12.171	1.00	0.00

ATOM	882	CG	ASN	57	4.709	10.959	-13.963	1.00	0.00
ATOM	883	OD1	ASN	57	5.468	10.098	-14.423	1.00	0.00
ATOM	884	ND2	ASN	57	4.439	12.092	-14.578	1.00	0.00
ATOM	885	HD21	ASN	57	4.904	12.315	-15.447	1.00	0.00
ATOM	886	HD22	ASN	57	3.768	12.733	-14.179	1.00	0.00
ATOM	887	C	ASN	57	5.323	10.348	-10.599	1.00	0.00
ATOM	888	O	ASN	57	5.604	11.579	-10.583	1.00	0.00
ATOM	889	N	LEU	58	5.563	9.564	-9.549	1.00	0.00
ATOM	890	H	LEU	58	5.310	8.590	-9.636	1.00	0.00
ATOM	891	CA	LEU	58	6.048	10.019	-8.310	1.00	0.00
ATOM	892	HA	LEU	58	6.121	11.106	-8.362	1.00	0.00
ATOM	893	CB	LEU	58	5.182	9.646	-7.114	1.00	0.00
ATOM	894	HB2	LEU	58	5.124	8.558	-7.137	1.00	0.00
ATOM	895	HB3	LEU	58	5.718	9.963	-6.220	1.00	0.00
ATOM	896	CG	LEU	58	3.806	10.215	-7.094	1.00	0.00
ATOM	897	HG	LEU	58	3.325	10.040	-8.057	1.00	0.00
ATOM	898	CD1	LEU	58	2.990	9.539	-5.984	1.00	0.00
ATOM	899	HD11	LEU	58	3.470	9.715	-5.021	1.00	0.00
ATOM	900	HD12	LEU	58	1.982	9.955	-5.969	1.00	0.00
ATOM	901	HD13	LEU	58	2.937	8.467	-6.173	1.00	0.00
ATOM	902	CD2	LEU	58	3.829	11.759	-6.860	1.00	0.00
ATOM	903	HD21	LEU	58	4.389	12.240	-7.662	1.00	0.00

ATOM	904	HD22	LEU	58	2.808	12.141	-6.851	1.00	0.00
ATOM	905	HD23	LEU	58	4.305	11.975	-5.904	1.00	0.00
ATOM	906	C	LEU	58	7.456	9.540	-8.103	1.00	0.00
ATOM	907	O	LEU	58	7.808	8.337	-8.197	1.00	0.00
ATOM	908	N	GLN	59	8.334	10.404	-7.690	1.00	0.00
ATOM	909	H	GLN	59	8.092	11.384	-7.639	1.00	0.00
ATOM	910	CA	GLN	59	9.670	9.998	-7.266	1.00	0.00
ATOM	911	HA	GLN	59	10.108	9.335	-8.012	1.00	0.00
ATOM	912	CB	GLN	59	10.587	11.235	-7.104	1.00	0.00
ATOM	913	HB2	GLN	59	10.137	11.894	-6.361	1.00	0.00
ATOM	914	HB3	GLN	59	11.557	10.892	-6.745	1.00	0.00
ATOM	915	CG	GLN	59	10.763	11.968	-8.365	1.00	0.00
ATOM	916	HG2	GLN	59	9.767	12.070	-8.797	1.00	0.00
ATOM	917	HG3	GLN	59	11.163	12.957	-8.140	1.00	0.00
ATOM	918	CD	GLN	59	11.670	11.297	-9.386	1.00	0.00
ATOM	919	OE1	GLN	59	11.879	10.085	-9.389	1.00	0.00
ATOM	920	NE2	GLN	59	12.244	12.111	-10.249	1.00	0.00
ATOM	921	HE21	GLN	59	12.860	11.739	-10.957	1.00	0.00
ATOM	922	HE22	GLN	59	12.065	13.104	-10.198	1.00	0.00
ATOM	923	C	GLN	59	9.584	9.311	-5.943	1.00	0.00
ATOM	924	O	GLN	59	8.753	9.636	-5.127	1.00	0.00
ATOM	925	N	PRO	60	10.388	8.278	-5.723	1.00	0.00

ATOM	926	CD PRO	60	10.402	7.557	-4.433	1.00	0.00
ATOM	927	HD2 PRO	60	9.420	7.123	-4.246	1.00	0.00
ATOM	928	HD3 PRO	60	10.652	8.250	-3.629	1.00	0.00
ATOM	929	CG PRO	60	11.466	6.512	-4.642	1.00	0.00
ATOM	930	HG2 PRO	60	11.009	5.582	-4.979	1.00	0.00
ATOM	931	HG3 PRO	60	12.000	6.337	-3.709	1.00	0.00
ATOM	932	CB PRO	60	12.371	7.075	-5.672	1.00	0.00
ATOM	933	HB2 PRO	60	12.680	6.129	-6.116	1.00	0.00
ATOM	934	HB3 PRO	60	13.250	7.689	-5.478	1.00	0.00
ATOM	935	CA PRO	60	11.422	7.808	-6.620	1.00	0.00
ATOM	936	HA PRO	60	11.827	8.586	-7.268	1.00	0.00
ATOM	937	C PRO	60	10.648	6.824	-7.446	1.00	0.00
ATOM	938	O PRO	60	9.632	6.295	-6.992	1.00	0.00
ATOM	939	N MET	61	11.059	6.510	-8.601	1.00	0.00
ATOM	940	H MET	61	11.966	6.680	-9.010	1.00	0.00
ATOM	941	CA MET	61	9.997	5.940	-9.461	1.00	0.00
ATOM	942	HA MET	61	9.008	6.307	-9.186	1.00	0.00
ATOM	943	CB MET	61	10.304	6.393	-10.845	1.00	0.00
ATOM	944	HB2 MET	61	11.342	6.153	-11.072	1.00	0.00
ATOM	945	HB3 MET	61	9.649	5.868	-11.541	1.00	0.00
ATOM	946	CG MET	61	10.090	7.892	-10.982	1.00	0.00
ATOM	947	HG2 MET	61	10.051	8.321	-9.981	1.00	0.00

ATOM	948	HG3 MET	61	10.941	8.307	-11.522	1.00	0.00
ATOM	949	SD MET	61	8.609	8.295	-11.841	1.00	0.00
ATOM	950	CE MET	61	8.760	7.644	-13.414	1.00	0.00
ATOM	951	HE1 MET	61	8.888	6.564	-13.350	1.00	0.00
ATOM	952	HE2 MET	61	7.861	7.869	-13.989	1.00	0.00
ATOM	953	HE3 MET	61	9.626	8.084	-13.908	1.00	0.00
ATOM	954	C MET	61	9.861	4.392	-9.313	1.00	0.00
ATOM	955	O MET	61	8.920	3.760	-9.801	1.00	0.00
ATOM	956	N ARG	62	10.734	3.835	-8.514	1.00	0.00
ATOM	957	H ARG	62	11.450	4.396	-8.075	1.00	0.00
ATOM	958	CA ARG	62	10.720	2.408	-8.253	1.00	0.00
ATOM	959	HA ARG	62	9.701	2.030	-8.337	1.00	0.00
ATOM	960	CB ARG	62	11.606	1.661	-9.264	1.00	0.00
ATOM	961	HB2 ARG	62	11.149	1.816	-10.242	1.00	0.00
ATOM	962	HB3 ARG	62	12.579	2.151	-9.237	1.00	0.00
ATOM	963	CG ARG	62	11.784	0.148	-9.013	1.00	0.00
ATOM	964	HG2 ARG	62	12.559	-0.184	-9.704	1.00	0.00
ATOM	965	HG3 ARG	62	12.145	0.052	-7.989	1.00	0.00
ATOM	966	CD ARG	62	10.531	-0.718	-9.196	1.00	0.00
ATOM	967	HD2 ARG	62	10.767	-1.739	-8.896	1.00	0.00
ATOM	968	HD3 ARG	62	9.740	-0.325	-8.557	1.00	0.00
ATOM	969	NE ARG	62	10.046	-0.735	-10.593	1.00	0.00

ATOM	970	HE	ARG	62	10.136	0.149	-11.074	1.00	0.00
ATOM	971	CZ	ARG	62	9.506	-1.773	-11.255	1.00	0.00
ATOM	972	NH1	ARG	62	9.320	-2.983	-10.695	1.00	0.00
ATOM	973	HH11	ARG	62	9.591	-3.139	-9.735	1.00	0.00
ATOM	974	HH12	ARG	62	8.909	-3.729	-11.238	1.00	0.00
ATOM	975	NH2	ARG	62	9.151	-1.589	-12.535	1.00	0.00
ATOM	976	HH21	ARG	62	9.293	-0.689	-12.971	1.00	0.00
ATOM	977	HH22	ARG	62	8.743	-2.351	-13.057	1.00	0.00
ATOM	978	C	ARG	62	11.226	2.215	-6.839	1.00	0.00
ATOM	979	O	ARG	62	12.007	3.028	-6.291	1.00	0.00
ATOM	980	N	CYX	63	10.701	1.192	-6.200	1.00	0.00
ATOM	981	H	CYX	63	10.008	0.627	-6.670	1.00	0.00
ATOM	982	CA	CYX	63	11.113	0.806	-4.896	1.00	0.00
ATOM	983	HA	CYX	63	11.710	1.596	-4.440	1.00	0.00
ATOM	984	CB	CYX	63	9.904	0.562	-4.039	1.00	0.00
ATOM	985	HB2	CYX	63	9.249	-0.158	-4.530	1.00	0.00
ATOM	986	HB3	CYX	63	10.217	0.168	-3.073	1.00	0.00
ATOM	987	SG	CYX	63	8.973	2.112	-3.917	1.00	0.00
ATOM	988	C	CYX	63	11.881	-0.529	-4.993	1.00	0.00
ATOM	989	O	CYX	63	11.308	-1.550	-5.417	1.00	0.00
ATOM	990	N	PRO	64	13.147	-0.529	-4.576	1.00	0.00
ATOM	991	CD	PRO	64	13.808	0.489	-3.730	1.00	0.00

ATOM	992	HD2 PRO	64	13.086	0.886	-3.015	1.00	0.00
ATOM	993	HD3 PRO	64	14.174	1.298	-4.362	1.00	0.00
ATOM	994	CG PRO	64	14.918	-0.266	-3.068	1.00	0.00
ATOM	995	HG2 PRO	64	14.609	-0.542	-2.060	1.00	0.00
ATOM	996	HG3 PRO	64	15.800	0.372	-3.016	1.00	0.00
ATOM	997	CB PRO	64	15.183	-1.481	-3.913	1.00	0.00
ATOM	998	HB2 PRO	64	15.546	-2.308	-3.303	1.00	0.00
ATOM	999	HB3 PRO	64	15.908	-1.262	-4.697	1.00	0.00
ATOM	1000	CA PRO	64	13.841	-1.846	-4.534	1.00	0.00
ATOM	1001	HA PRO	64	13.909	-2.187	-5.567	1.00	0.00
ATOM	1002	C PRO	64	13.160	-2.943	-3.671	1.00	0.00
ATOM	1003	O PRO	64	13.052	-4.132	-4.076	1.00	0.00
ATOM	1004	N PHE	65	12.735	-2.547	-2.480	1.00	0.00
ATOM	1005	H PHE	65	12.745	-1.561	-2.260	1.00	0.00
ATOM	1006	CA PHE	65	12.377	-3.483	-1.431	1.00	0.00
ATOM	1007	HA PHE	65	12.283	-2.960	-0.479	1.00	0.00
ATOM	1008	CB PHE	65	11.030	-4.150	-1.761	1.00	0.00
ATOM	1009	HB2 PHE	65	11.090	-4.687	-2.708	1.00	0.00
ATOM	1010	HB3 PHE	65	10.753	-4.843	-0.967	1.00	0.00
ATOM	1011	CG PHE	65	9.876	-3.156	-1.895	1.00	0.00
ATOM	1012	CD1 PHE	65	9.676	-2.159	-0.931	1.00	0.00
ATOM	1013	HD1 PHE	65	10.366	-2.092	-0.090	1.00	0.00

ATOM	1014	CE1	PHE	65	8.635	-1.278	-1.033	1.00	0.00
ATOM	1015	HE1	PHE	65	8.485	-0.496	-0.288	1.00	0.00
ATOM	1016	CZ	PHE	65	7.778	-1.388	-2.086	1.00	0.00
ATOM	1017	HZ	PHE	65	6.937	-0.698	-2.157	1.00	0.00
ATOM	1018	CE2	PHE	65	7.957	-2.332	-3.033	1.00	0.00
ATOM	1019	HE2	PHE	65	7.254	-2.399	-3.864	1.00	0.00
ATOM	1020	CD2	PHE	65	9.014	-3.204	-2.957	1.00	0.00
ATOM	1021	HD2	PHE	65	9.171	-3.940	-3.745	1.00	0.00
ATOM	1022	C	PHE	65	13.492	-4.528	-1.139	1.00	0.00
ATOM	1023	O	PHE	65	13.186	-5.621	-0.692	1.00	0.00
ATOM	1024	OXT	PHE	65	14.670	-4.255	-1.357	1.00	0.00
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ATOM	1025	N	GLN	66	8.447	7.866	14.308	1.00	0.00
ATOM	1026	H1	GLN	66	7.470	8.050	14.126	1.00	0.00
ATOM	1027	H2	GLN	66	8.820	8.619	14.868	1.00	0.00
ATOM	1028	H3	GLN	66	8.545	6.910	14.617	1.00	0.00
ATOM	1029	CA	GLN	66	9.185	7.939	13.005	1.00	0.00
ATOM	1030	HA	GLN	66	9.939	8.724	13.065	1.00	0.00
ATOM	1031	CB	GLN	66	9.872	6.633	12.673	1.00	0.00
ATOM	1032	HB2	GLN	66	10.296	6.254	13.602	1.00	0.00
ATOM	1033	HB3	GLN	66	9.099	5.950	12.322	1.00	0.00
ATOM	1034	CG	GLN	66	10.959	6.741	11.631	1.00	0.00



ATOM	1035	HG2	GLN	66	11.129	7.802	11.446	1.00	0.00
ATOM	1036	HG3	GLN	66	11.873	6.288	12.013	1.00	0.00
ATOM	1037	CD	GLN	66	10.607	6.087	10.346	1.00	0.00
ATOM	1038	OE1	GLN	66	9.328	5.957	10.089	1.00	0.00
ATOM	1039	NE2	GLN	66	11.488	5.675	9.589	1.00	0.00
ATOM	1040	HE21	GLN	66	11.234	5.232	8.717	1.00	0.00
ATOM	1041	HE22	GLN	66	12.459	5.783	9.844	1.00	0.00
ATOM	1042	C	GLN	66	8.324	8.396	11.842	1.00	0.00
ATOM	1043	O	GLN	66	7.123	8.112	11.756	1.00	0.00
ATOM	1044	N	ARG	67	8.985	9.145	10.964	1.00	0.00
ATOM	1045	H	ARG	67	9.990	9.072	10.904	1.00	0.00
ATOM	1046	CA	ARG	67	8.318	10.097	10.115	1.00	0.00
ATOM	1047	HA	ARG	67	7.659	10.742	10.696	1.00	0.00
ATOM	1048	CB	ARG	67	9.397	10.978	9.430	1.00	0.00
ATOM	1049	HB2	ARG	67	10.002	11.386	10.239	1.00	0.00
ATOM	1050	HB3	ARG	67	10.001	10.295	8.833	1.00	0.00
ATOM	1051	CG	ARG	67	8.897	12.115	8.548	1.00	0.00
ATOM	1052	HG2	ARG	67	9.765	12.612	8.114	1.00	0.00
ATOM	1053	HG3	ARG	67	8.291	11.683	7.752	1.00	0.00
ATOM	1054	CD	ARG	67	8.065	13.132	9.325	1.00	0.00
ATOM	1055	HD2	ARG	67	7.740	12.672	10.258	1.00	0.00
ATOM	1056	HD3	ARG	67	8.693	13.995	9.546	1.00	0.00

ATOM	1057	NE	ARG	67	6.875	13.591	8.585	1.00	0.00
ATOM	1058	HE	ARG	67	6.974	13.628	7.580	1.00	0.00
ATOM	1059	CZ	ARG	67	5.702	13.960	9.127	1.00	0.00
ATOM	1060	NH1	ARG	67	5.495	13.923	10.449	1.00	0.00
ATOM	1061	HH11	ARG	67	6.233	13.612	11.064	1.00	0.00
ATOM	1062	HH12	ARG	67	4.601	14.207	10.825	1.00	0.00
ATOM	1063	NH2	ARG	67	4.708	14.370	8.333	1.00	0.00
ATOM	1064	HH21	ARG	67	4.844	14.400	7.332	1.00	0.00
ATOM	1065	HH22	ARG	67	3.825	14.648	8.737	1.00	0.00
ATOM	1066	C	ARG	67	7.456	9.311	9.084	1.00	0.00
ATOM	1067	O	ARG	67	6.259	9.571	8.912	1.00	0.00
ATOM	1068	N	CYX	68	8.111	8.345	8.477	1.00	0.00
ATOM	1069	H	CYX	68	9.071	8.139	8.714	1.00	0.00
ATOM	1070	CA	CYX	68	7.462	7.550	7.381	1.00	0.00
ATOM	1071	HA	CYX	68	7.098	8.219	6.600	1.00	0.00
ATOM	1072	CB	CYX	68	8.440	6.616	6.785	1.00	0.00
ATOM	1073	HB2	CYX	68	8.854	5.977	7.564	1.00	0.00
ATOM	1074	HB3	CYX	68	7.944	5.999	6.036	1.00	0.00
ATOM	1075	SG	CYX	68	9.809	7.554	6.016	1.00	0.00
ATOM	1076	C	CYX	68	6.286	6.808	7.939	1.00	0.00
ATOM	1077	O	CYX	68	5.193	6.795	7.345	1.00	0.00
ATOM	1078	N	ARG	69	6.418	6.266	9.160	1.00	0.00

ATOM	1079	H	ARG	69	7.272	6.273	9.699	1.00	0.00
ATOM	1080	CA	ARG	69	5.243	5.535	9.708	1.00	0.00
ATOM	1081	HA	ARG	69	4.873	4.832	8.961	1.00	0.00
ATOM	1082	CB	ARG	69	5.618	4.748	10.985	1.00	0.00
ATOM	1083	HB2	ARG	69	6.005	5.442	11.731	1.00	0.00
ATOM	1084	HB3	ARG	69	4.727	4.256	11.375	1.00	0.00
ATOM	1085	CG	ARG	69	6.663	3.717	10.671	1.00	0.00
ATOM	1086	HG2	ARG	69	6.341	3.176	9.781	1.00	0.00
ATOM	1087	HG3	ARG	69	7.595	4.240	10.460	1.00	0.00
ATOM	1088	CD	ARG	69	6.878	2.743	11.801	1.00	0.00
ATOM	1089	HD2	ARG	69	5.949	2.217	12.023	1.00	0.00
ATOM	1090	HD3	ARG	69	7.648	2.021	11.531	1.00	0.00
ATOM	1091	NE	ARG	69	7.310	3.463	13.004	1.00	0.00
ATOM	1092	HE	ARG	69	6.568	3.791	13.606	1.00	0.00
ATOM	1093	CZ	ARG	69	8.576	3.704	13.361	1.00	0.00
ATOM	1094	NH1	ARG	69	9.615	3.291	12.624	1.00	0.00
ATOM	1095	HH11	ARG	69	9.451	2.780	11.768	1.00	0.00
ATOM	1096	HH12	ARG	69	10.557	3.493	12.927	1.00	0.00
ATOM	1097	NH2	ARG	69	8.791	4.388	14.485	1.00	0.00
ATOM	1098	HH21	ARG	69	8.007	4.706	15.036	1.00	0.00
ATOM	1099	HH22	ARG	69	9.736	4.585	14.779	1.00	0.00
ATOM	1100	C	ARG	69	4.126	6.429	9.978	1.00	0.00

ATOM	1101	O	ARG	69	2.972	6.115	9.749	1.00	0.00
ATOM	1102	N	HIE	70	4.429	7.608	10.493	1.00	0.00
ATOM	1103	H	HIE	70	5.379	7.864	10.722	1.00	0.00
ATOM	1104	CA	HIE	70	3.413	8.537	10.744	1.00	0.00
ATOM	1105	HA	HIE	70	2.650	8.084	11.378	1.00	0.00
ATOM	1106	CB	HIE	70	3.970	9.776	11.457	1.00	0.00
ATOM	1107	HB2	HIE	70	4.442	9.539	12.410	1.00	0.00
ATOM	1108	HB3	HIE	70	4.696	10.255	10.801	1.00	0.00
ATOM	1109	CG	HIE	70	2.912	10.800	11.746	1.00	0.00
ATOM	1110	ND1	HIE	70	1.784	10.516	12.496	1.00	0.00
ATOM	1111	CE1	HIE	70	1.020	11.593	12.559	1.00	0.00
ATOM	1112	HE1	HIE	70	0.081	11.576	13.112	1.00	0.00
ATOM	1113	NE2	HIE	70	1.606	12.562	11.873	1.00	0.00
ATOM	1114	HE2	HIE	70	1.250	13.500	11.750	1.00	0.00
ATOM	1115	CD2	HIE	70	2.785	12.091	11.348	1.00	0.00
ATOM	1116	HD2	HIE	70	3.409	12.745	10.739	1.00	0.00
ATOM	1117	C	HIE	70	2.731	9.004	9.445	1.00	0.00
ATOM	1118	O	HIE	70	1.543	9.134	9.415	1.00	0.00
ATOM	1119	N	GLN	71	3.497	9.209	8.403	1.00	0.00
ATOM	1120	H	GLN	71	4.498	9.078	8.421	1.00	0.00
ATOM	1121	CA	GLN	71	2.879	9.664	7.157	1.00	0.00
ATOM	1122	HA	GLN	71	2.267	10.552	7.318	1.00	0.00

ATOM	1123	CB	GLN	71	3.984	10.010	6.214	1.00	0.00
ATOM	1124	HB2	GLN	71	4.736	9.222	6.252	1.00	0.00
ATOM	1125	HB3	GLN	71	3.576	10.074	5.205	1.00	0.00
ATOM	1126	CG	GLN	71	4.625	11.342	6.588	1.00	0.00
ATOM	1127	HG2	GLN	71	3.827	12.083	6.651	1.00	0.00
ATOM	1128	HG3	GLN	71	5.200	11.349	7.513	1.00	0.00
ATOM	1129	CD	GLN	71	5.509	11.703	5.487	1.00	0.00
ATOM	1130	OE1	GLN	71	5.022	11.908	4.411	1.00	0.00
ATOM	1131	NE2	GLN	71	6.781	11.691	5.694	1.00	0.00
ATOM	1132	HE21	GLN	71	7.413	11.938	4.946	1.00	0.00
ATOM	1133	HE22	GLN	71	7.139	11.436	6.603	1.00	0.00
ATOM	1134	C	GLN	71	1.970	8.583	6.525	1.00	0.00
ATOM	1135	O	GLN	71	0.898	8.884	6.023	1.00	0.00
ATOM	1136	N	PHE	72	2.386	7.339	6.644	1.00	0.00
ATOM	1137	H	PHE	72	3.303	7.149	7.021	1.00	0.00
ATOM	1138	CA	PHE	72	1.572	6.212	6.205	1.00	0.00
ATOM	1139	HA	PHE	72	1.359	6.284	5.138	1.00	0.00
ATOM	1140	CB	PHE	72	2.352	4.902	6.466	1.00	0.00
ATOM	1141	HB2	PHE	72	3.239	4.808	5.840	1.00	0.00
ATOM	1142	HB3	PHE	72	2.644	4.883	7.516	1.00	0.00
ATOM	1143	CG	PHE	72	1.531	3.680	6.229	1.00	0.00
ATOM	1144	CD1	PHE	72	1.269	3.254	4.909	1.00	0.00

ATOM	1145	HD1 PHE	72	1.684	3.808	4.067	1.00	0.00
ATOM	1146	CE1 PHE	72	0.486	2.136	4.683	1.00	0.00
ATOM	1147	HE1 PHE	72	0.248	1.860	3.655	1.00	0.00
ATOM	1148	CZ PHE	72	0.007	1.374	5.731	1.00	0.00
ATOM	1149	HZ PHE	72	-0.568	0.467	5.546	1.00	0.00
ATOM	1150	CE2 PHE	72	0.273	1.788	7.065	1.00	0.00
ATOM	1151	HE2 PHE	72	-0.138	1.230	7.906	1.00	0.00
ATOM	1152	CD2 PHE	72	1.058	2.906	7.293	1.00	0.00
ATOM	1153	HD2 PHE	72	1.315	3.193	8.312	1.00	0.00
ATOM	1154	C PHE	72	0.218	6.161	6.912	1.00	0.00
ATOM	1155	O PHE	72	-0.823	6.148	6.312	1.00	0.00
ATOM	1156	N GLN	73	0.259	6.304	8.256	1.00	0.00
ATOM	1157	H GLN	73	1.071	5.804	8.587	1.00	0.00
ATOM	1158	CA GLN	73	-0.943	6.278	9.066	1.00	0.00
ATOM	1159	HA GLN	73	-0.475	6.489	10.027	1.00	0.00
ATOM	1160	CB GLN	73	0.148	6.179	8.004	1.00	0.00
ATOM	1161	HB2 GLN	73	0.832	5.370	8.260	1.00	0.00
ATOM	1162	HB3 GLN	73	-0.306	5.977	7.034	1.00	0.00
ATOM	1163	CG GLN	73	0.917	7.494	7.941	1.00	0.00
ATOM	1164	HG2 GLN	73	0.234	8.303	7.685	1.00	0.00
ATOM	1165	HG3 GLN	73	1.372	7.696	8.911	1.00	0.00
ATOM	1166	CD GLN	73	2.017	7.435	6.891	1.00	0.00

ATOM	1167	OE1	GLN	73	2.191	6.417	6.226	1.00	0.00
ATOM	1168	NE2	GLN	73	2.762	8.534	6.744	1.00	0.00
ATOM	1169	HE21	GLN	73	3.506	8.548	6.060	1.00	0.00
ATOM	1170	HE22	GLN	73	2.578	9.345	7.316	1.00	0.00
ATOM	1171	C	GLN	73	-1.856	7.461	8.693	1.00	0.00
ATOM	1172	O	GLN	73	-3.078	7.338	8.501	1.00	0.00
ATOM	1173	N	THR	74	-1.236	8.635	8.534	1.00	0.00
ATOM	1174	H	THR	74	-0.241	8.708	8.687	1.00	0.00
ATOM	1175	CA	THR	74	-1.961	9.826	8.201	1.00	0.00
ATOM	1176	HA	THR	74	-2.829	9.978	8.842	1.00	0.00
ATOM	1177	CB	THR	74	-1.052	11.062	8.303	1.00	0.00
ATOM	1178	HB	THR	74	-0.202	10.938	7.633	1.00	0.00
ATOM	1179	CG2	THR	74	-1.823	12.310	7.914	1.00	0.00
ATOM	1180	HG21	THR	74	-2.674	12.436	8.584	1.00	0.00
ATOM	1181	HG22	THR	74	-1.170	13.180	7.989	1.00	0.00
ATOM	1182	HG23	THR	74	-2.180	12.213	6.888	1.00	0.00
ATOM	1183	OG1	THR	74	-0.523	11.150	9.627	1.00	0.00
ATOM	1184	HG1	THR	74	0.045	11.921	9.694	1.00	0.00
ATOM	1185	C	THR	74	-2.594	9.819	6.818	1.00	0.00
ATOM	1186	O	THR	74	-3.742	10.308	6.626	1.00	0.00
ATOM	1187	N	GLN	75	-1.911	9.174	5.851	1.00	0.00
ATOM	1188	H	GLN	75	-0.958	8.866	5.976	1.00	0.00

ATOM	1189	CA	GLN	75	-2.514	9.059	4.505	1.00	0.00
ATOM	1190	HA	GLN	75	-3.273	9.829	4.364	1.00	0.00
ATOM	1191	CB	GLN	75	-1.430	9.240	3.441	1.00	0.00
ATOM	1192	HB2	GLN	75	-0.710	8.435	3.583	1.00	0.00
ATOM	1193	HB3	GLN	75	-1.916	9.126	2.472	1.00	0.00
ATOM	1194	CG	GLN	75	-0.719	10.562	3.492	1.00	0.00
ATOM	1195	HG2	GLN	75	-0.145	10.596	4.418	1.00	0.00
ATOM	1196	HG3	GLN	75	-0.042	10.642	2.641	1.00	0.00
ATOM	1197	CD	GLN	75	-1.679	11.757	3.467	1.00	0.00
ATOM	1198	OE1	GLN	75	-2.701	11.729	2.793	1.00	0.00
ATOM	1199	NE2	GLN	75	-1.333	12.770	4.169	1.00	0.00
ATOM	1200	HE21	GLN	75	-1.924	13.589	4.194	1.00	0.00
ATOM	1201	HE22	GLN	75	-0.471	12.746	4.695	1.00	0.00
ATOM	1202	C	GLN	75	-3.338	7.766	4.328	1.00	0.00
ATOM	1203	O	GLN	75	-3.298	7.030	3.302	1.00	0.00
ATOM	1204	N	GLN	76	-4.171	7.492	5.323	1.00	0.00
ATOM	1205	H	GLN	76	-4.031	7.929	6.223	1.00	0.00
ATOM	1206	CA	GLN	76	-5.203	6.484	5.202	1.00	0.00
ATOM	1207	HA	GLN	76	-5.737	6.409	6.149	1.00	0.00
ATOM	1208	CB	GLN	76	-6.216	6.819	4.092	1.00	0.00
ATOM	1209	HB2	GLN	76	-5.881	6.239	3.232	1.00	0.00
ATOM	1210	HB3	GLN	76	-7.162	6.417	4.455	1.00	0.00



ATOM	1211	CG	GLN	76	-6.410	8.289	3.674	1.00	0.00
ATOM	1212	HG2	GLN	76	-5.475	8.653	3.249	1.00	0.00
ATOM	1213	HG3	GLN	76	-7.188	8.311	2.910	1.00	0.00
ATOM	1214	CD	GLN	76	-6.817	9.207	4.804	1.00	0.00
ATOM	1215	OE1	GLN	76	-6.198	10.251	5.034	1.00	0.00
ATOM	1216	NE2	GLN	76	-7.875	8.830	5.512	1.00	0.00
ATOM	1217	HE21	GLN	76	-8.195	9.403	6.280	1.00	0.00
ATOM	1218	HE22	GLN	76	-8.355	7.973	5.279	1.00	0.00
ATOM	1219	C	GLN	76	-4.560	5.115	5.021	1.00	0.00
ATOM	1220	O	GLN	76	-5.147	4.229	4.396	1.00	0.00
ATOM	1221	N	ARG	77	-3.364	4.912	5.563	1.00	0.00
ATOM	1222	H	ARG	77	-4.121	4.985	6.228	1.00	0.00
ATOM	1223	CA	ARG	77	-2.675	3.643	5.443	1.00	0.00
ATOM	1224	HA	ARG	77	-3.602	4.211	5.528	1.00	0.00
ATOM	1225	CB	ARG	77	-1.514	4.542	5.856	1.00	0.00
ATOM	1226	HB2	ARG	77	-1.651	4.863	6.889	1.00	0.00
ATOM	1227	HB3	ARG	77	-0.578	3.991	5.768	1.00	0.00
ATOM	1228	CG	ARG	77	-1.471	5.766	4.946	1.00	0.00
ATOM	1229	HG2	ARG	77	-1.333	5.446	3.913	1.00	0.00
ATOM	1230	HG3	ARG	77	-2.406	6.318	5.034	1.00	0.00
ATOM	1231	CD	ARG	77	-0.310	6.665	5.359	1.00	0.00
ATOM	1232	HD2	ARG	77	-0.447	6.985	6.392	1.00	0.00

ATOM	1233	HD3	ARG	77	0.626	6.113	5.271	1.00	0.00
ATOM	1234	NE	ARG	77	-0.236	7.865	4.496	1.00	0.00
ATOM	1235	HE	ARG	77	-0.919	7.972	3.759	1.00	0.00
ATOM	1236	CZ	ARG	77	0.688	8.810	4.647	1.00	0.00
ATOM	1237	NH1	ARG	77	1.620	8.740	5.593	1.00	0.00
ATOM	1238	HH11	ARG	77	1.637	7.950	6.223	1.00	0.00
ATOM	1239	HH12	ARG	77	2.306	9.476	5.678	1.00	0.00
ATOM	1240	NH2	ARG	77	0.662	9.847	3.815	1.00	0.00
ATOM	1241	HH21	ARG	77	-0.047	9.897	3.097	1.00	0.00
ATOM	1242	HH22	ARG	77	1.351	10.580	3.905	1.00	0.00
ATOM	1243	C	ARG	77	-2.471	3.261	3.991	1.00	0.00
ATOM	1244	O	ARG	77	-2.389	2.088	3.649	1.00	0.00
ATOM	1245	N	LEU	78	-2.406	4.278	3.135	1.00	0.00
ATOM	1246	H	LEU	78	-2.451	5.234	3.458	1.00	0.00
ATOM	1247	CA	LEU	78	-2.406	4.021	1.625	1.00	0.00
ATOM	1248	HA	LEU	78	-2.736	4.918	1.100	1.00	0.00
ATOM	1249	CB	LEU	78	-1.013	3.661	1.142	1.00	0.00
ATOM	1250	HB2	LEU	78	-0.850	2.717	1.661	1.00	0.00
ATOM	1251	HB3	LEU	78	-1.057	3.481	0.068	1.00	0.00
ATOM	1252	CG	LEU	78	0.134	4.615	1.450	1.00	0.00
ATOM	1253	HG	LEU	78	0.243	4.700	2.531	1.00	0.00
ATOM	1254	CD1	LEU	78	1.422	4.104	0.853	1.00	0.00

ATOM	1255	HD11	LEU	78	1.313	4.019	-0.228	1.00	0.00
ATOM	1256	HD12	LEU	78	2.230	4.798	1.083	1.00	0.00
ATOM	1257	HD13	LEU	78	1.654	3.125	1.272	1.00	0.00
ATOM	1258	CD2	LEU	78	-0.232	6.048	0.961	1.00	0.00
ATOM	1259	HD21	LEU	78	-1.133	6.388	1.472	1.00	0.00
ATOM	1260	HD22	LEU	78	0.590	6.729	1.182	1.00	0.00
ATOM	1261	HD23	LEU	78	-0.410	6.032	-0.115	1.00	0.00
ATOM	1262	C	LEU	78	-3.442	2.986	1.250	1.00	0.00
ATOM	1263	O	LEU	78	-3.226	2.070	0.396	1.00	0.00
ATOM	1264	N	ARG	79	-4.645	3.114	1.843	1.00	0.00
ATOM	1265	H	ARG	79	-4.838	3.886	2.466	1.00	0.00
ATOM	1266	CA	ARG	79	-5.687	2.116	1.636	1.00	0.00
ATOM	1267	HA	ARG	79	-5.358	1.144	2.003	1.00	0.00
ATOM	1268	CB	ARG	79	-6.942	2.524	2.398	1.00	0.00
ATOM	1269	HB2	ARG	79	-6.614	2.934	3.353	1.00	0.00
ATOM	1270	HB3	ARG	79	-7.427	3.307	1.814	1.00	0.00
ATOM	1271	CG	ARG	79	-7.917	1.405	2.642	1.00	0.00
ATOM	1272	HG2	ARG	79	-8.356	1.088	1.696	1.00	0.00
ATOM	1273	HG3	ARG	79	-7.402	0.563	3.103	1.00	0.00
ATOM	1274	CD	ARG	79	-9.031	1.903	3.584	1.00	0.00
ATOM	1275	HD2	ARG	79	-9.743	2.510	3.024	1.00	0.00
ATOM	1276	HD3	ARG	79	-9.549	1.051	4.024	1.00	0.00

ATOM	1277	NE	ARG	79	-8.460	2.726	4.674	1.00	0.00
ATOM	1278	HE	ARG	79	-7.604	2.366	5.071	1.00	0.00
ATOM	1279	CZ	ARG	79	-8.962	3.871	5.165	1.00	0.00
ATOM	1280	NH1	ARG	79	-10.102	4.397	4.702	1.00	0.00
ATOM	1281	HH11	ARG	79	-10.608	3.929	3.963	1.00	0.00
ATOM	1282	HH12	ARG	79	-10.452	5.260	5.093	1.00	0.00
ATOM	1283	NH2	ARG	79	-8.310	4.508	6.144	1.00	0.00
ATOM	1284	HH21	ARG	79	-7.449	4.125	6.505	1.00	0.00
ATOM	1285	HH22	ARG	79	-8.683	5.370	6.517	1.00	0.00
ATOM	1286	C	ARG	79	-6.049	1.901	0.166	1.00	0.00
ATOM	1287	O	ARG	79	-6.205	0.817	-0.269	1.00	0.00
ATOM	1288	N	ALA	80	-6.027	2.945	-0.650	1.00	0.00
ATOM	1289	H	ALA	80	-5.890	3.897	-0.343	1.00	0.00
ATOM	1290	CA	ALA	80	-6.270	2.706	-2.061	1.00	0.00
ATOM	1291	HA	ALA	80	-7.159	2.079	-2.137	1.00	0.00
ATOM	1292	CB	ALA	80	-6.536	4.019	-2.792	1.00	0.00
ATOM	1293	HB1	ALA	80	-5.652	4.654	-2.733	1.00	0.00
ATOM	1294	HB2	ALA	80	-6.766	3.814	-3.838	1.00	0.00
ATOM	1295	HB3	ALA	80	-7.381	4.529	-2.329	1.00	0.00
ATOM	1296	C	ALA	80	-5.132	1.989	-2.740	1.00	0.00
ATOM	1297	O	ALA	80	-5.409	1.166	-3.649	1.00	0.00
ATOM	1298	N	CYX	81	-3.887	2.194	-2.343	1.00	0.00

ATOM	1299	H	CYX	81	-3.695	2.872	-1.619	1.00	0.00
ATOM	1300	CA	CYX	81	-2.773	1.469	-2.918	1.00	0.00
ATOM	1301	HA	CYX	81	-2.845	1.557	-4.002	1.00	0.00
ATOM	1302	CB	CYX	81	-1.438	1.948	-2.492	1.00	0.00
ATOM	1303	HB2	CYX	81	-1.330	1.814	-1.416	1.00	0.00
ATOM	1304	HB3	CYX	81	-0.666	1.379	-3.009	1.00	0.00
ATOM	1305	SG	CYX	81	-1.294	3.777	-2.910	1.00	0.00
ATOM	1306	C	CYX	81	-2.865	-0.010	-2.513	1.00	0.00
ATOM	1307	O	CYX	81	-2.563	-0.894	-3.239	1.00	0.00
ATOM	1308	N	GLN	82	-3.353	-0.209	-1.268	1.00	0.00
ATOM	1309	H	GLN	82	-3.570	0.533	-0.618	1.00	0.00
ATOM	1310	CA	GLN	82	-3.540	-1.596	-0.829	1.00	0.00
ATOM	1311	HA	GLN	82	-2.587	-2.121	-0.890	1.00	0.00
ATOM	1312	CB	GLN	82	-4.050	-1.673	0.614	1.00	0.00
ATOM	1313	HB2	GLN	82	-4.970	-1.089	0.644	1.00	0.00
ATOM	1314	HB3	GLN	82	-4.280	-2.722	0.801	1.00	0.00
ATOM	1315	CG	GLN	82	-3.108	-1.174	1.663	1.00	0.00
ATOM	1316	HG2	GLN	82	-2.188	-1.757	1.648	1.00	0.00
ATOM	1317	HG3	GLN	82	-2.872	-0.119	1.518	1.00	0.00
ATOM	1318	CD	GLN	82	-3.769	-1.342	3.025	1.00	0.00
ATOM	1319	OE1	GLN	82	-4.381	-2.369	3.273	1.00	0.00
ATOM	1320	NE2	GLN	82	-3.662	-0.344	3.887	1.00	0.00

ATOM	1321	HE21	GLN	82	-4.088	-0.421	4.799	1.00	0.00
ATOM	1322	HE22	GLN	82	-3.155	0.491	3.628	1.00	0.00
ATOM	1323	C	GLN	82	-4.510	-2.287	-1.742	1.00	0.00
ATOM	1324	O	GLN	82	-4.214	-3.426	-2.112	1.00	0.00
ATOM	1325	N	ARG	83	-5.579	-1.627	-2.149	1.00	0.00
ATOM	1326	H	ARG	83	-5.754	-0.744	-1.690	1.00	0.00
ATOM	1327	CA	ARG	83	-6.559	-2.116	-3.082	1.00	0.00
ATOM	1328	HA	ARG	83	-6.898	-3.099	-2.757	1.00	0.00
ATOM	1329	CB	ARG	83	-7.750	-1.208	-3.182	1.00	0.00
ATOM	1330	HB2	ARG	83	-7.312	-0.230	-3.385	1.00	0.00
ATOM	1331	HB3	ARG	83	-8.271	-1.563	-4.072	1.00	0.00
ATOM	1332	CG	ARG	83	-8.739	-1.092	-2.027	1.00	0.00
ATOM	1333	HG2	ARG	83	-9.081	-2.092	-1.761	1.00	0.00
ATOM	1334	HG3	ARG	83	-8.227	-0.644	-1.175	1.00	0.00
ATOM	1335	CD	ARG	83	-9.951	-0.221	-2.413	1.00	0.00
ATOM	1336	HD2	ARG	83	-9.694	0.399	-3.272	1.00	0.00
ATOM	1337	HD3	ARG	83	-10.794	-0.863	-2.669	1.00	0.00
ATOM	1338	NE	ARG	83	-10.348	0.658	-1.298	1.00	0.00
ATOM	1339	HE	ARG	83	-10.155	1.643	-1.415	1.00	0.00
ATOM	1340	CZ	ARG	83	-10.947	0.254	-0.170	1.00	0.00
ATOM	1341	NH1	ARG	83	-11.244	-1.031	0.035	1.00	0.00
ATOM	1342	HH11	ARG	83	-11.016	-1.717	-0.670	1.00	0.00

ATOM	1343	HH12	ARG	83	-11.696	-1.311	0.894	1.00	0.00
ATOM	1344	NH2	ARG	83	-11.245	1.144	0.781	1.00	0.00
ATOM	1345	HH21	ARG	83	-11.018	2.119	0.645	1.00	0.00
ATOM	1346	HH22	ARG	83	-11.697	0.838	1.631	1.00	0.00
ATOM	1347	C	ARG	83	-5.947	-2.404	-4.486	1.00	0.00
ATOM	1348	O	ARG	83	-6.138	-3.477	-5.063	1.00	0.00
ATOM	1349	N	VAL	84	-5.110	-1.479	-4.941	1.00	0.00
ATOM	1350	H	VAL	84	-5.074	-0.565	-4.512	1.00	0.00
ATOM	1351	CA	VAL	84	-4.363	-1.694	-6.167	1.00	0.00
ATOM	1352	HA	VAL	84	-5.038	-1.961	-6.981	1.00	0.00
ATOM	1353	CB	VAL	84	-3.565	-0.447	-6.580	1.00	0.00
ATOM	1354	HB	VAL	84	-2.959	-0.147	-5.726	1.00	0.00
ATOM	1355	CG1	VAL	84	-2.653	-0.682	-7.800	1.00	0.00
ATOM	1356	HG11	VAL	84	-3.259	-0.981	-8.655	1.00	0.00
ATOM	1357	HG12	VAL	84	-2.119	0.238	-8.038	1.00	0.00
ATOM	1358	HG13	VAL	84	-1.935	-1.469	-7.571	1.00	0.00
ATOM	1359	CG2	VAL	84	-4.580	0.648	-6.885	1.00	0.00
ATOM	1360	HG21	VAL	84	-5.177	0.849	-5.995	1.00	0.00
ATOM	1361	HG22	VAL	84	-4.057	1.557	-7.184	1.00	0.00
ATOM	1362	HG23	VAL	84	-5.234	0.323	-7.695	1.00	0.00
ATOM	1363	C	VAL	84	-3.523	-2.931	-6.102	1.00	0.00
ATOM	1364	O	VAL	84	-3.403	-3.742	-7.050	1.00	0.00

ATOM	1365	N	ILE	85	-2.738	-3.059	-5.034	1.00	0.00
ATOM	1366	H	ILE	85	-2.823	-2.404	-4.269	1.00	0.00
ATOM	1367	CA	ILE	85	-1.785	-4.134	-4.912	1.00	0.00
ATOM	1368	HA	ILE	85	-1.078	-4.167	-5.741	1.00	0.00
ATOM	1369	CB	ILE	85	-1.014	-3.970	-3.585	1.00	0.00
ATOM	1370	HB	ILE	85	-1.719	-3.657	-2.815	1.00	0.00
ATOM	1371	CG2	ILE	85	-0.344	-5.261	-3.162	1.00	0.00
ATOM	1372	HG21	ILE	85	0.361	-5.574	-3.932	1.00	0.00
ATOM	1373	HG22	ILE	85	0.188	-5.104	-2.224	1.00	0.00
ATOM	1374	HG23	ILE	85	-1.099	-6.035	-3.026	1.00	0.00
ATOM	1375	CG1	ILE	85	-0.015	-2.876	-3.684	1.00	0.00
ATOM	1376	HG12	ILE	85	0.889	-3.292	-4.128	1.00	0.00
ATOM	1377	HG13	ILE	85	-0.425	-2.111	-4.344	1.00	0.00
ATOM	1378	CD1	ILE	85	0.316	-2.264	-2.356	1.00	0.00
ATOM	1379	HD11	ILE	85	0.726	-3.028	-1.696	1.00	0.00
ATOM	1380	HD12	ILE	85	1.051	-1.471	-2.494	1.00	0.00
ATOM	1381	HD13	ILE	85	-0.588	-1.847	-1.912	1.00	0.00
ATOM	1382	C	ILE	85	-2.639	-5.450	-4.883	1.00	0.00
ATOM	1383	O	ILE	85	-2.226	-6.400	-5.534	1.00	0.00
ATOM	1384	N	GLN	86	-3.740	-5.485	-4.187	1.00	0.00
ATOM	1385	H	GLN	86	-4.014	-4.698	-3.616	1.00	0.00
ATOM	1386	CA	GLN	86	-4.598	-6.720	-4.158	1.00	0.00



ATOM	1387	HA	GLN	86	-4.000	-7.592	-3.895	1.00	0.00
ATOM	1388	CB	GLN	86	-5.670	-6.552	-3.135	1.00	0.00
ATOM	1389	HB2	GLN	86	-6.147	-5.583	-3.288	1.00	0.00
ATOM	1390	HB3	GLN	86	-6.407	-7.344	-3.271	1.00	0.00
ATOM	1391	CG	GLN	86	-5.098	-6.623	-1.709	1.00	0.00
ATOM	1392	HG2	GLN	86	-4.368	-7.413	-1.537	1.00	0.00
ATOM	1393	HG3	GLN	86	-4.632	-5.653	-1.536	1.00	0.00
ATOM	1394	CD	GLN	86	-6.244	-6.795	-0.720	1.00	0.00
ATOM	1395	OE1	GLN	86	-6.788	-5.815	-0.150	1.00	0.00
ATOM	1396	NE2	GLN	86	-6.704	-8.031	-0.604	1.00	0.00
ATOM	1397	HE21	GLN	86	-7.464	-8.226	0.032	1.00	0.00
ATOM	1398	HE22	GLN	86	-6.293	-8.773	-1.152	1.00	0.00
ATOM	1399	C	GLN	86	-5.193	-7.006	-5.553	1.00	0.00
ATOM	1400	O	GLN	86	-5.178	-8.123	-6.000	1.00	0.00
ATOM	1401	N	ARG	87	-5.636	-5.951	-6.216	1.00	0.00
ATOM	1402	H	ARG	87	-5.555	-5.035	-5.797	1.00	0.00
ATOM	1403	CA	ARG	87	-6.259	-6.058	-7.594	1.00	0.00
ATOM	1404	HA	ARG	87	-7.225	-6.562	-7.555	1.00	0.00
ATOM	1405	CB	ARG	87	-6.470	-4.648	-8.105	1.00	0.00
ATOM	1406	HB2	ARG	87	-7.300	-4.202	-7.557	1.00	0.00
ATOM	1407	HB3	ARG	87	-5.563	-4.073	-7.920	1.00	0.00
ATOM	1408	CG	ARG	87	-6.784	-4.636	-9.602	1.00	0.00

ATOM	1409	HG2 ARG	87	-5.981	-5.116	-10.161	1.00	0.00
ATOM	1410	HG3 ARG	87	-7.722	-5.156	-9.796	1.00	0.00
ATOM	1411	CD ARG	87	-6.908	-3.208	-10.035	1.00	0.00
ATOM	1412	HD2 ARG	87	-6.092	-2.617	-9.619	1.00	0.00
ATOM	1413	HD3 ARG	87	-6.886	-3.142	-11.123	1.00	0.00
ATOM	1414	NE ARG	87	-8.163	-2.661	-9.563	1.00	0.00
ATOM	1415	HE ARG	87	-8.848	-3.290	-9.170	1.00	0.00
ATOM	1416	CZ ARG	87	-8.426	-1.338	-9.556	1.00	0.00
ATOM	1417	NH1 ARG	87	-7.546	-0.458	-10.015	1.00	0.00
ATOM	1418	HH11 ARG	87	-6.660	-0.777	-10.379	1.00	0.00
ATOM	1419	HH12 ARG	87	-7.767	0.528	-9.999	1.00	0.00
ATOM	1420	NH2 ARG	87	-9.657	-0.910	-9.139	1.00	0.00
ATOM	1421	HH21 ARG	87	-10.349	-1.583	-8.844	1.00	0.00
ATOM	1422	HH22 ARG	87	-9.868	0.078	-9.129	1.00	0.00
ATOM	1423	C ARG	87	-5.345	-6.809	-8.535	1.00	0.00
ATOM	1424	O ARG	87	-5.783	-7.702	-9.224	1.00	0.00
ATOM	1425	N TRP	88	-4.041	-6.516	-8.551	1.00	0.00
ATOM	1426	H TRP	88	-3.740	-5.773	-7.937	1.00	0.00
ATOM	1427	CA TRP	88	-3.063	-7.098	-9.466	1.00	0.00
ATOM	1428	HA TRP	88	-3.563	-7.489	-10.352	1.00	0.00
ATOM	1429	CB TRP	88	-2.081	-6.043	-9.895	1.00	0.00
ATOM	1430	HB2 TRP	88	-1.796	-5.504	-8.992	1.00	0.00

ATOM	1431	HB3 TRP	88	-1.184	-6.370	-10.421	1.00	0.00
ATOM	1432	CG TRP	88	-2.770	-5.043	-10.796	1.00	0.00
ATOM	1433	CD1 TRP	88	-3.284	-3.813	-10.476	1.00	0.00
ATOM	1434	HD1 TRP	88	-3.124	-3.454	-9.460	1.00	0.00
ATOM	1435	NE1 TRP	88	-3.905	-3.292	-11.540	1.00	0.00
ATOM	1436	HE1 TRP	88	-4.290	-2.359	-11.588	1.00	0.00
ATOM	1437	CE2 TRP	88	-3.856	-4.193	-12.583	1.00	0.00
ATOM	1438	CZ2 TRP	88	-4.335	-4.098	-13.897	1.00	0.00
ATOM	1439	HZ2 TRP	88	-4.835	-3.185	-14.223	1.00	0.00
ATOM	1440	CH2 TRP	88	-4.141	-5.158	-14.676	1.00	0.00
ATOM	1441	HH2 TRP	88	-4.583	-5.148	-15.673	1.00	0.00
ATOM	1442	CZ3 TRP	88	-3.410	-6.261	-14.278	1.00	0.00
ATOM	1443	HZ3 TRP	88	-3.213	-7.090	-14.957	1.00	0.00
ATOM	1444	CE3 TRP	88	-2.917	-6.338	-13.024	1.00	0.00
ATOM	1445	HE3 TRP	88	-2.388	-7.245	-12.731	1.00	0.00
ATOM	1446	CD2 TRP	88	-3.133	-5.281	-12.161	1.00	0.00
ATOM	1447	C TRP	88	-2.351	-8.311	-8.961	1.00	0.00
ATOM	1448	O TRP	88	-1.514	-8.814	-9.659	1.00	0.00
ATOM	1449	N SER	89	-2.837	-8.823	-7.849	1.00	0.00
ATOM	1450	H SER	89	-3.611	-8.334	-7.422	1.00	0.00
ATOM	1451	CA SER	89	-2.281	-9.975	-7.155	1.00	0.00
ATOM	1452	HA SER	89	-1.432	-10.387	-7.700	1.00	0.00

ATOM	1453	CB	SER	89	-1.792	-9.504	-5.753	1.00	0.00
ATOM	1454	HB2	SER	89	-2.591	-8.989	-5.220	1.00	0.00
ATOM	1455	HB3	SER	89	-1.448	-10.351	-5.161	1.00	0.00
ATOM	1456	OG	SER	89	-0.704	-8.600	-5.969	1.00	0.00
ATOM	1457	HG	SER	89	-0.375	-8.287	-5.123	1.00	0.00
ATOM	1458	C	SER	89	-3.248	-11.121	-7.063	1.00	0.00
ATOM	1459	O	SER	89	-2.989	-12.041	-6.340	1.00	0.00
ATOM	1460	N	GLN	90	-4.357	-11.081	-7.778	1.00	0.00
ATOM	1461	H	GLN	90	-4.569	-10.285	-8.363	1.00	0.00
ATOM	1462	CA	GLN	90	-5.355	-12.171	-7.688	1.00	0.00
ATOM	1463	HA	GLN	90	-5.613	-12.338	-6.642	1.00	0.00
ATOM	1464	CB	GLN	90	-6.643	-11.823	-8.464	1.00	0.00
ATOM	1465	HB2	GLN	90	-6.461	-12.108	-9.500	1.00	0.00
ATOM	1466	HB3	GLN	90	-7.429	-12.452	-8.047	1.00	0.00
ATOM	1467	CG	GLN	90	-7.081	-10.355	-8.408	1.00	0.00
ATOM	1468	HG2	GLN	90	-6.779	-9.969	-7.434	1.00	0.00
ATOM	1469	HG3	GLN	90	-6.535	-9.830	-9.192	1.00	0.00
ATOM	1470	CD	GLN	90	-8.556	-10.096	-8.592	1.00	0.00
ATOM	1471	OE1	GLN	90	-9.354	-11.017	-8.793	1.00	0.00
ATOM	1472	NE2	GLN	90	-8.935	-8.812	-8.523	1.00	0.00
ATOM	1473	HE21	GLN	90	-9.909	-8.569	-8.638	1.00	0.00
ATOM	1474	HE22	GLN	90	-8.245	-8.093	-8.357	1.00	0.00

ATOM	1475	C	GLN	90	-4.781	-13.515	-8.202	1.00	0.00
ATOM	1476	O	GLN	90	-4.775	-14.533	-7.486	1.00	0.00
ATOM	1477	OXT	GLN	90	-4.322	-13.577	-9.340	1.00	0.00
TER									
ATOM	1478	CI1	LIG	91	18.207	-9.451	-5.346	1.00	0.00
ATOM	1479	CI2	LIG	91	19.217	-12.149	-5.971	1.00	0.00
ATOM	1480	P1	LIG	91	17.070	-13.496	-2.125	1.00	0.00
ATOM	1481	O1	LIG	91	16.590	-14.964	-2.527	1.00	0.00
ATOM	1482	O2	LIG	91	18.386	-13.788	-1.291	1.00	0.00
ATOM	1483	O3	LIG	91	17.599	-12.947	-3.585	1.00	0.00
ATOM	1484	O4	LIG	91	16.117	-12.584	-1.478	1.00	0.00
ATOM	1485	C1	LIG	91	15.396	-15.178	-3.313	1.00	0.00
ATOM	1486	H1	LIG	91	15.233	-16.254	-3.320	1.00	0.00
ATOM	1487	H2	LIG	91	15.550	-14.817	-4.331	1.00	0.00
ATOM	1488	H3	LIG	91	14.545	-14.674	-2.852	1.00	0.00
ATOM	1489	C2	LIG	91	19.447	-14.659	-1.747	1.00	0.00
ATOM	1490	H4	LIG	91	19.828	-14.319	-2.711	1.00	0.00
ATOM	1491	H5	LIG	91	19.080	-15.683	-1.823	1.00	0.00
ATOM	1492	H6	LIG	91	20.227	-14.593	-0.992	1.00	0.00
ATOM	1493	C3	LIG	91	17.586	-11.609	-3.886	1.00	0.00
ATOM	1494	H7	LIG	91	16.990	-10.967	-3.249	1.00	0.00
ATOM	1495	C4	LIG	91	18.259	-11.141	-4.935	1.00	0.00

TER

ATOM	1496	Cl1	LIG	92	-14.663	13.998	1.545	1.00	0.00
ATOM	1497	Cl2	LIG	92	-14.203	14.661	4.379	1.00	0.00
ATOM	1498	P1	LIG	92	-16.003	18.781	3.378	1.00	0.00
ATOM	1499	O1	LIG	92	-16.767	19.131	4.734	1.00	0.00
ATOM	1500	O2	LIG	92	-14.653	19.597	3.530	1.00	0.00
ATOM	1501	O3	LIG	92	-15.593	17.211	3.665	1.00	0.00
ATOM	1502	O4	LIG	92	-16.698	18.968	2.097	1.00	0.00
ATOM	1503	C1	LIG	92	-18.075	18.589	5.025	1.00	0.00
ATOM	1504	H1	LIG	92	-18.412	19.092	5.929	1.00	0.00
ATOM	1505	H2	LIG	92	-18.003	17.515	5.200	1.00	0.00
ATOM	1506	H3	LIG	92	-18.762	18.797	4.203	1.00	0.00
ATOM	1507	C2	LIG	92	-13.820	19.554	4.713	1.00	0.00
ATOM	1508	H4	LIG	92	-13.522	18.527	4.929	1.00	0.00
ATOM	1509	H5	LIG	92	-14.357	19.981	5.560	1.00	0.00
ATOM	1510	H6	LIG	92	-12.946	20.156	4.477	1.00	0.00
ATOM	1511	C3	LIG	92	-15.427	16.322	2.636	1.00	0.00
ATOM	1512	H7	LIG	92	-15.818	16.611	1.668	1.00	0.00
ATOM	1513	C4	LIG	92	-14.834	15.147	2.839	1.00	0.00

TER

ATOM	1514	Cl1	LIG	93	9.915	-10.646	17.154	1.00	0.00
ATOM	1515	Cl2	LIG	93	11.703	-9.031	15.457	1.00	0.00

ATOM	1516	P1	LIG	93	15.152	-10.868	17.895	1.00	0.00
ATOM	1517	O1	LIG	93	16.294	-10.990	16.787	1.00	0.00
ATOM	1518	O2	LIG	93	15.555	-9.534	18.649	1.00	0.00
ATOM	1519	O3	LIG	93	13.865	-10.458	16.951	1.00	0.00
ATOM	1520	O4	LIG	93	14.880	-12.016	18.771	1.00	0.00
ATOM	1521	C1	LIG	93	16.321	-12.091	15.849	1.00	0.00
ATOM	1522	H1	LIG	93	17.263	-12.001	15.312	1.00	0.00
ATOM	1523	H2	LIG	93	15.484	-12.008	15.154	1.00	0.00
ATOM	1524	H3	LIG	93	16.284	-13.042	16.382	1.00	0.00
ATOM	1525	C2	LIG	93	15.865	-8.293	17.972	1.00	0.00
ATOM	1526	H4	LIG	93	15.029	-7.987	17.342	1.00	0.00
ATOM	1527	H5	LIG	93	16.768	-8.413	17.373	1.00	0.00
ATOM	1528	H6	LIG	93	16.028	-7.562	18.760	1.00	0.00
ATOM	1529	C3	LIG	93	12.585	-10.775	17.322	1.00	0.00
ATOM	1530	H7	LIG	93	12.468	-11.512	18.107	1.00	0.00
ATOM	1531	C4	LIG	93	11.541	-10.212	16.716	1.00	0.00
TER									
ATOM	1532	Cl1	LIG	94	15.096	-21.573	7.956	1.00	0.00
ATOM	1533	Cl2	LIG	94	15.208	-19.432	9.979	1.00	0.00
ATOM	1534	P1	LIG	94	15.546	-16.525	6.422	1.00	0.00
ATOM	1535	O1	LIG	94	14.742	-15.260	6.969	1.00	0.00
ATOM	1536	O2	LIG	94	17.051	-16.109	6.687	1.00	0.00

ATOM	1537	O3	LIG	94	15.192	-17.630	7.592	1.00	0.00
ATOM	1538	O4	LIG	94	15.269	-17.016	5.065	1.00	0.00
ATOM	1539	C1	LIG	94	13.298	-15.206	6.924	1.00	0.00
ATOM	1540	H1	LIG	94	13.028	-14.196	7.225	1.00	0.00
ATOM	1541	H2	LIG	94	12.876	-15.930	7.623	1.00	0.00
ATOM	1542	H3	LIG	94	12.944	-15.401	5.910	1.00	0.00
ATOM	1543	C2	LIG	94	17.531	-15.599	7.953	1.00	0.00
ATOM	1544	H4	LIG	94	17.320	-16.311	8.752	1.00	0.00
ATOM	1545	H5	LIG	94	17.063	-14.638	8.167	1.00	0.00
ATOM	1546	H6	LIG	94	18.605	-15.478	7.833	1.00	0.00
ATOM	1547	C3	LIG	94	15.174	-18.973	7.317	1.00	0.00
ATOM	1548	H7	LIG	94	15.145	-19.261	6.273	1.00	0.00
ATOM	1549	C4	LIG	94	15.165	-19.869	8.301	1.00	0.00
TER									
ATOM	1550	CI1	LIG	95	12.076	15.485	-18.787	1.00	0.00
ATOM	1551	CI2	LIG	95	14.560	14.428	-19.969	1.00	0.00
ATOM	1552	P1	LIG	95	15.291	12.452	-15.873	1.00	0.00
ATOM	1553	O1	LIG	95	16.008	11.092	-16.300	1.00	0.00
ATOM	1554	O2	LIG	95	16.518	13.366	-15.461	1.00	0.00
ATOM	1555	O3	LIG	95	14.813	13.011	-17.347	1.00	0.00
ATOM	1556	O4	LIG	95	14.197	12.406	-14.892	1.00	0.00
ATOM	1557	C1	LIG	95	15.249	9.950	-16.757	1.00	0.00



ATOM	1558	H1	LIG	95	15.963	9.134	-16.845	1.00	0.00
ATOM	1559	H2	LIG	95	14.804	10.163	-17.730	1.00	0.00
ATOM	1560	H3	LIG	95	14.477	9.694	-16.030	1.00	0.00
ATOM	1561	C2	LIG	95	17.696	13.545	-16.282	1.00	0.00
ATOM	1562	H4	LIG	95	17.416	13.923	-17.267	1.00	0.00
ATOM	1563	H5	LIG	95	18.230	12.599	-16.376	1.00	0.00
ATOM	1564	H6	LIG	95	18.309	14.276	-15.761	1.00	0.00
ATOM	1565	C3	LIG	95	13.715	13.821	-17.476	1.00	0.00
ATOM	1566	H7	LIG	95	13.038	13.870	-16.632	1.00	0.00
ATOM	1567	C4	LIG	95	13.492	14.491	-18.604	1.00	0.00
TER									
ATOM	1568	Cl1	LIG	96	-19.927	-0.113	13.122	1.00	0.00
ATOM	1569	Cl2	LIG	96	-18.323	-2.140	14.539	1.00	0.00
ATOM	1570	P1	LIG	96	-17.911	0.992	17.892	1.00	0.00
ATOM	1571	O1	LIG	96	-17.906	0.067	19.191	1.00	0.00
ATOM	1572	O2	LIG	96	-16.367	1.273	17.671	1.00	0.00
ATOM	1573	O3	LIG	96	-18.316	-0.115	16.740	1.00	0.00
ATOM	1574	O4	LIG	96	-18.766	2.187	17.867	1.00	0.00
ATOM	1575	C1	LIG	96	-19.134	-0.438	19.763	1.00	0.00
ATOM	1576	H1	LIG	96	-18.853	-0.912	20.700	1.00	0.00
ATOM	1577	H2	LIG	96	-19.583	-1.172	19.092	1.00	0.00
ATOM	1578	H3	LIG	96	-19.828	0.383	19.952	1.00	0.00

ATOM	1579	C2	LIG	96	-15.357	0.237	17.662	1.00	0.00
ATOM	1580	H4	LIG	96	-15.590	-0.512	16.903	1.00	0.00
ATOM	1581	H5	LIG	96	-15.293	-0.227	18.647	1.00	0.00
ATOM	1582	H6	LIG	96	-14.424	0.739	17.419	1.00	0.00
ATOM	1583	C3	LIG	96	-18.974	0.259	15.598	1.00	0.00
ATOM	1584	H7	LIG	96	-19.437	1.238	15.594	1.00	0.00
ATOM	1585	C4	LIG	96	-19.054	-0.567	14.557	1.00	0.00

TER

ATOM	1586	Cl1	LIG	97	13.475	16.688	-4.206	1.00	0.00
ATOM	1587	Cl2	LIG	97	11.587	18.499	-2.848	1.00	0.00
ATOM	1588	P1	LIG	97	15.234	21.204	-2.074	1.00	0.00
ATOM	1589	O1	LIG	97	14.580	22.655	-2.176	1.00	0.00
ATOM	1590	O2	LIG	97	15.289	20.968	-0.508	1.00	0.00
ATOM	1591	O3	LIG	97	13.981	20.275	-2.605	1.00	0.00
ATOM	1592	O4	LIG	97	16.492	20.934	-2.785	1.00	0.00
ATOM	1593	C1	LIG	97	14.338	23.285	-3.455	1.00	0.00
ATOM	1594	H1	LIG	97	14.022	24.302	-3.231	1.00	0.00
ATOM	1595	H2	LIG	97	13.545	22.757	-3.987	1.00	0.00
ATOM	1596	H3	LIG	97	15.253	23.300	-4.048	1.00	0.00
ATOM	1597	C2	LIG	97	14.162	21.178	0.375	1.00	0.00
ATOM	1598	H4	LIG	97	13.314	20.571	0.056	1.00	0.00
ATOM	1599	H5	LIG	97	13.891	22.235	0.385	1.00	0.00

ATOM	1600	H6	LIG	97	14.498	20.865	1.360	1.00	0.00
ATOM	1601	C3	LIG	97	14.202	19.068	-3.216	1.00	0.00
ATOM	1602	H7	LIG	97	15.209	18.869	-3.561	1.00	0.00
ATOM	1603	C4	LIG	97	13.207	18.202	-3.391	1.00	0.00
TER									
ATOM	1604	Cl1	LIG	98	-6.973	5.832	-19.747	1.00	0.00
ATOM	1605	Cl2	LIG	98	-4.355	4.479	-19.795	1.00	0.00
ATOM	1606	P1	LIG	98	-2.720	8.258	-17.731	1.00	0.00
ATOM	1607	O1	LIG	98	-1.599	7.639	-16.779	1.00	0.00
ATOM	1608	O2	LIG	98	-1.869	8.770	-18.966	1.00	0.00
ATOM	1609	O3	LIG	98	-3.456	6.881	-18.257	1.00	0.00
ATOM	1610	O4	LIG	98	-3.664	9.240	-17.180	1.00	0.00
ATOM	1611	C1	LIG	98	-1.936	7.044	-15.505	1.00	0.00
ATOM	1612	H1	LIG	98	-0.988	6.835	-15.014	1.00	0.00
ATOM	1613	H2	LIG	98	-2.488	6.116	-15.661	1.00	0.00
ATOM	1614	H3	LIG	98	-2.522	7.742	-14.905	1.00	0.00
ATOM	1615	C2	LIG	98	-0.884	7.961	-19.651	1.00	0.00
ATOM	1616	H4	LIG	98	-1.340	7.042	-20.020	1.00	0.00
ATOM	1617	H5	LIG	98	-0.058	7.732	-18.976	1.00	0.00
ATOM	1618	H6	LIG	98	-0.534	8.567	-20.483	1.00	0.00
ATOM	1619	C3	LIG	98	-4.774	6.880	-18.631	1.00	0.00
ATOM	1620	H7	LIG	98	-5.371	7.733	-18.333	1.00	0.00

ATOM 1621 C4 LIG 98 -5.289 5.856 -19.309 1.00 0.00

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ATOM 1622 CI1 LIG 99 -11.378 -23.368 -16.289 1.00 0.00

ATOM 1623 CI2 LIG 99 -13.591 -21.516 -16.890 1.00 0.00

ATOM 1624 P1 LIG 99 -11.643 -18.696 -13.813 1.00 0.00

ATOM 1625 O1 LIG 99 -11.958 -17.267 -14.449 1.00 0.00

ATOM 1626 O2 LIG 99 -12.777 -18.834 -12.715 1.00 0.00

ATOM 1627 O3 LIG 99 -12.115 -19.680 -15.047 1.00 0.00

ATOM 1628 O4 LIG 99 -10.283 -18.983 -13.337 1.00 0.00

ATOM 1629 C1 LIG 99 -11.149 -16.721 -15.516 1.00 0.00

ATOM 1630 H1 LIG 99 -11.494 -15.699 -15.658 1.00 0.00

ATOM 1631 H2 LIG 99 -11.301 -17.297 -16.430 1.00 0.00

ATOM 1632 H3 LIG 99 -10.096 -16.724 -15.232 1.00 0.00

ATOM 1633 C2 LIG 99 -14.180 -18.593 -12.977 1.00 0.00

ATOM 1634 H4 LIG 99 -14.529 -19.236 -13.786 1.00 0.00

ATOM 1635 H5 LIG 99 -14.335 -17.544 -13.231 1.00 0.00

ATOM 1636 H6 LIG 99 -14.697 -18.839 -12.053 1.00 0.00

ATOM 1637 C3 LIG 99 -11.552 -20.917 -15.222 1.00 0.00

ATOM 1638 H7 LIG 99 -10.629 -21.117 -14.693 1.00 0.00

ATOM 1639 C4 LIG 99 -12.114 -21.813 -16.031 1.00 0.00

TER

ATOM 1640 CI1 LIG 100 -3.097 -13.473 18.003 1.00 0.00

ATOM	1641	CI2	LIG	100	-5.165	-14.767	16.348	1.00	0.00
ATOM	1642	P1	LIG	100	-2.935	-12.984	12.733	1.00	0.00
ATOM	1643	O1	LIG	100	-3.146	-14.124	11.637	1.00	0.00
ATOM	1644	O2	LIG	100	-4.055	-11.932	12.347	1.00	0.00
ATOM	1645	O3	LIG	100	-3.510	-13.751	14.074	1.00	0.00
ATOM	1646	O4	LIG	100	-1.594	-12.417	12.926	1.00	0.00
ATOM	1647	C1	LIG	100	-2.318	-15.308	11.611	1.00	0.00
ATOM	1648	H1	LIG	100	-2.582	-15.836	10.697	1.00	0.00
ATOM	1649	H2	LIG	100	-2.534	-15.933	12.479	1.00	0.00
ATOM	1650	H3	LIG	100	-1.263	-15.031	11.591	1.00	0.00
ATOM	1651	C2	LIG	100	-5.439	-12.284	12.111	1.00	0.00
ATOM	1652	H4	LIG	100	-5.855	-12.789	12.984	1.00	0.00
ATOM	1653	H5	LIG	100	-5.514	-12.923	11.230	1.00	0.00
ATOM	1654	H6	LIG	100	-5.956	-11.343	11.940	1.00	0.00
ATOM	1655	C3	LIG	100	-3.052	-13.431	15.325	1.00	0.00
ATOM	1656	H7	LIG	100	-2.137	-12.854	15.382	1.00	0.00
ATOM	1657	C4	LIG	100	-3.700	-13.841	16.413	1.00	0.00
TER									
END									

**Table R:** The number of atoms present in the system of MO-Nap

ATOM	1	N	PRO	1	-12.580	11.355	-7.801	1.00	0.00
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ATOM	2	H2	PRO	1	-12.935	10.425	-7.629	1.00	0.00
ATOM	3	H3	PRO	1	-13.205	12.084	-8.118	1.00	0.00
ATOM	4	CD	PRO	1	-11.975	11.903	-6.566	1.00	0.00
ATOM	5	HD2	PRO	1	-11.961	11.127	-5.802	1.00	0.00
ATOM	6	HD3	PRO	1	-12.576	12.744	-6.218	1.00	0.00
ATOM	7	CG	PRO	1	-10.589	12.323	-6.992	1.00	0.00
ATOM	8	HG2	PRO	1	-9.871	11.790	-6.369	1.00	0.00
ATOM	9	HG3	PRO	1	-10.495	13.395	-6.818	1.00	0.00
ATOM	10	CB	PRO	1	-10.399	11.994	-8.464	1.00	0.00
ATOM	11	HB2	PRO	1	-9.463	11.455	-8.604	1.00	0.00
ATOM	12	HB3	PRO	1	-10.396	12.894	-9.080	1.00	0.00
ATOM	13	CA	PRO	1	-11.583	11.095	-8.855	1.00	0.00
ATOM	14	HA	PRO	1	-12.021	11.403	-9.805	1.00	0.00
ATOM	15	C	PRO	1	-11.156	9.608	-8.942	1.00	0.00
ATOM	16	O	PRO	1	-11.430	8.819	-8.018	1.00	0.00
ATOM	17	N	PRO	2	-10.530	9.220	-10.058	1.00	0.00
ATOM	18	CD	PRO	2	-10.126	10.091	-11.167	1.00	0.00
ATOM	19	HD2	PRO	2	-9.363	10.783	-10.810	1.00	0.00
ATOM	20	HD3	PRO	2	-10.996	10.654	-11.505	1.00	0.00
ATOM	21	CG	PRO	2	-9.615	9.167	-12.203	1.00	0.00
ATOM	22	HG2	PRO	2	-8.603	9.477	-12.462	1.00	0.00
ATOM	23	HG3	PRO	2	-10.257	9.255	-13.080	1.00	0.00

ATOM	24	CB	PRO	2	-9.638	7.796	-11.671	1.00	0.00
ATOM	25	HB2	PRO	2	-8.624	7.400	-11.719	1.00	0.00
ATOM	26	HB3	PRO	2	-10.307	7.151	-12.240	1.00	0.00
ATOM	27	CA	PRO	2	-10.095	7.870	-10.227	1.00	0.00
ATOM	28	HA	PRO	2	-10.944	7.212	-10.040	1.00	0.00
ATOM	29	C	PRO	2	-8.952	7.512	-9.273	1.00	0.00
ATOM	30	O	PRO	2	-8.209	8.332	-8.823	1.00	0.00
ATOM	31	N	THR	3	-8.803	6.230	-9.046	1.00	0.00
ATOM	32	H	THR	3	-9.315	5.537	-9.573	1.00	0.00
ATOM	33	CA	THR	3	-7.903	5.779	-8.021	1.00	0.00
ATOM	34	HA	THR	3	-8.236	6.222	-7.082	1.00	0.00
ATOM	35	CB	THR	3	-8.014	4.252	-7.909	1.00	0.00
ATOM	36	HB	THR	3	-7.721	3.808	-8.860	1.00	0.00
ATOM	37	CG2	THR	3	-7.142	3.742	-6.840	1.00	0.00
ATOM	38	HG21	THR	3	-7.435	4.186	-5.889	1.00	0.00
ATOM	39	HG22	THR	3	-7.237	2.658	-6.779	1.00	0.00
ATOM	40	HG23	THR	3	-6.107	4.004	-7.059	1.00	0.00
ATOM	41	OG1	THR	3	-9.371	3.945	-7.510	1.00	0.00
ATOM	42	HG1	THR	3	-9.474	2.994	-7.431	1.00	0.00
ATOM	43	C	THR	3	-6.484	6.141	-8.316	1.00	0.00
ATOM	44	O	THR	3	-5.782	6.599	-7.434	1.00	0.00
ATOM	45	N	LEU	4	-6.067	5.949	-9.565	1.00	0.00

ATOM	46	H	LEU	4	-6.622	5.563	-10.316	1.00	0.00
ATOM	47	CA	LEU	4	-4.648	6.271	-9.835	1.00	0.00
ATOM	48	HA	LEU	4	-4.032	5.740	-9.110	1.00	0.00
ATOM	49	CB	LEU	4	-4.194	5.880	-11.243	1.00	0.00
ATOM	50	HB2	LEU	4	-4.366	4.804	-11.268	1.00	0.00
ATOM	51	HB3	LEU	4	-4.850	6.369	-11.963	1.00	0.00
ATOM	52	CG	LEU	4	-2.760	6.167	-11.596	1.00	0.00
ATOM	53	HG	LEU	4	-2.617	7.243	-11.494	1.00	0.00
ATOM	54	CD1	LEU	4	-1.748	5.441	-10.740	1.00	0.00
ATOM	55	HD11	LEU	4	-1.891	4.365	-10.842	1.00	0.00
ATOM	56	HD12	LEU	4	-0.742	5.706	-11.063	1.00	0.00
ATOM	57	HD13	LEU	4	-1.882	5.728	-9.697	1.00	0.00
ATOM	58	CD2	LEU	4	-2.601	5.818	-13.040	1.00	0.00
ATOM	59	HD21	LEU	4	-3.279	6.427	-13.639	1.00	0.00
ATOM	60	HD22	LEU	4	-1.574	6.009	-13.350	1.00	0.00
ATOM	61	HD23	LEU	4	-2.835	4.764	-13.188	1.00	0.00
ATOM	62	C	LEU	4	-4.378	7.748	-9.621	1.00	0.00
ATOM	63	O	LEU	4	-3.371	8.102	-9.099	1.00	0.00
ATOM	64	N	GLN	5	-5.304	8.596	-10.015	1.00	0.00
ATOM	65	H	GLN	5	-6.120	8.303	-10.533	1.00	0.00
ATOM	66	CA	GLN	5	-5.098	10.021	-9.802	1.00	0.00
ATOM	67	HA	GLN	5	-4.115	10.323	-10.162	1.00	0.00



ATOM	68	CB	GLN	5	-6.172	10.809	-10.583	1.00	0.00
ATOM	69	HB2	GLN	5	-6.042	10.579	-11.641	1.00	0.00
ATOM	70	HB3	GLN	5	-7.147	10.451	-10.251	1.00	0.00
ATOM	71	CG	GLN	5	-6.088	12.336	-10.376	1.00	0.00
ATOM	72	HG2	GLN	5	-6.038	12.592	-9.318	1.00	0.00
ATOM	73	HG3	GLN	5	-5.176	12.667	-10.873	1.00	0.00
ATOM	74	CD	GLN	5	-7.269	13.064	-10.996	1.00	0.00
ATOM	75	OE1	GLN	5	-7.903	12.559	-11.963	1.00	0.00
ATOM	76	NE2	GLN	5	-7.620	14.226	-10.411	1.00	0.00
ATOM	77	HE21	GLN	5	-8.398	14.758	-10.777	1.00	0.00
ATOM	78	HE22	GLN	5	-7.105	14.561	-9.610	1.00	0.00
ATOM	79	C	GLN	5	-5.072	10.402	-8.311	1.00	0.00
ATOM	80	O	GLN	5	-4.204	11.177	-7.892	1.00	0.00
ATOM	81	N	ARG	6	-5.863	9.690	-7.474	1.00	0.00
ATOM	82	H	ARG	6	-6.489	8.991	-7.848	1.00	0.00
ATOM	83	CA	ARG	6	-5.869	9.918	-6.075	1.00	0.00
ATOM	84	HA	ARG	6	-5.989	10.984	-5.878	1.00	0.00
ATOM	85	CB	ARG	6	-7.006	9.174	-5.416	1.00	0.00
ATOM	86	HB2	ARG	6	-6.913	8.137	-5.738	1.00	0.00
ATOM	87	HB3	ARG	6	-6.825	9.239	-4.343	1.00	0.00
ATOM	88	CG	ARG	6	-8.403	9.674	-5.723	1.00	0.00
ATOM	89	HG2	ARG	6	-8.372	10.764	-5.748	1.00	0.00

ATOM	90	HG3 ARG	6	-8.687	9.297	-6.706	1.00	0.00
ATOM	91	CD ARG	6	-9.456	9.206	-4.660	1.00	0.00
ATOM	92	HD2 ARG	6	-9.319	9.829	-3.777	1.00	0.00
ATOM	93	HD3 ARG	6	-10.444	9.390	-5.084	1.00	0.00
ATOM	94	NE ARG	6	-9.371	7.788	-4.257	1.00	0.00
ATOM	95	HE ARG	6	-8.844	7.595	-3.418	1.00	0.00
ATOM	96	CZ ARG	6	-9.935	6.757	-4.913	1.00	0.00
ATOM	97	NH1 ARG	6	-10.667	6.939	-6.013	1.00	0.00
ATOM	98	HH11 ARG	6	-10.809	7.872	-6.373	1.00	0.00
ATOM	99	HH12 ARG	6	-11.076	6.143	-6.481	1.00	0.00
ATOM	100	NH2 ARG	6	-9.769	5.497	-4.468	1.00	0.00
ATOM	101	HH21 ARG	6	-9.219	5.326	-3.639	1.00	0.00
ATOM	102	HH22 ARG	6	-10.196	4.729	-4.966	1.00	0.00
ATOM	103	C ARG	6	-4.527	9.460	-5.532	1.00	0.00
ATOM	104	O ARG	6	-3.966	10.037	-4.614	1.00	0.00
ATOM	105	N CYX	7	-4.041	8.300	-6.048	1.00	0.00
ATOM	106	H CYX	7	-4.561	7.726	-6.696	1.00	0.00
ATOM	107	CA CYX	7	-2.747	7.836	-5.608	1.00	0.00
ATOM	108	HA CYX	7	-2.756	7.690	-4.528	1.00	0.00
ATOM	109	CB CYX	7	-2.388	6.476	-6.294	1.00	0.00
ATOM	110	HB2 CYX	7	-3.004	5.682	-5.872	1.00	0.00
ATOM	111	HB3 CYX	7	-2.574	6.549	-7.366	1.00	0.00

ATOM	112	SG	CYX	7	-0.697	5.997	-6.142	1.00	0.00
ATOM	113	C	CYX	7	-1.648	8.868	-5.893	1.00	0.00
ATOM	114	O	CYX	7	-0.852	9.209	-5.030	1.00	0.00
ATOM	115	N	CYX	8	-1.622	9.464	-7.067	1.00	0.00
ATOM	116	H	CYX	8	-2.366	9.326	-7.736	1.00	0.00
ATOM	117	CA	CYX	8	-0.542	10.355	-7.419	1.00	0.00
ATOM	118	HA	CYX	8	0.405	9.862	-7.203	1.00	0.00
ATOM	119	CB	CYX	8	-0.563	10.736	-8.864	1.00	0.00
ATOM	120	HB2	CYX	8	-1.545	11.134	-9.121	1.00	0.00
ATOM	121	HB3	CYX	8	0.196	11.495	-9.051	1.00	0.00
ATOM	122	SG	CYX	8	-0.258	9.326	-10.024	1.00	0.00
ATOM	123	C	CYX	8	-0.653	11.672	-6.614	1.00	0.00
ATOM	124	O	CYX	8	0.311	12.186	-6.214	1.00	0.00
ATOM	125	N	ARG	9	-1.883	12.013	-6.288	1.00	0.00
ATOM	126	H	ARG	9	-2.671	11.528	-6.693	1.00	0.00
ATOM	127	CA	ARG	9	-2.156	13.189	-5.382	1.00	0.00
ATOM	128	HA	ARG	9	-1.567	14.038	-5.730	1.00	0.00
ATOM	129	CB	ARG	9	-3.609	13.591	-5.354	1.00	0.00
ATOM	130	HB2	ARG	9	-3.912	13.909	-6.352	1.00	0.00
ATOM	131	HB3	ARG	9	-4.211	12.736	-5.048	1.00	0.00
ATOM	132	CG	ARG	9	-3.813	14.707	-4.396	1.00	0.00
ATOM	133	HG2	ARG	9	-3.472	14.368	-3.418	1.00	0.00

ATOM	134	HG3 ARG	9	-3.195	15.542	-4.727	1.00	0.00
ATOM	135	CD ARG	9	-5.282	15.164	-4.297	1.00	0.00
ATOM	136	HD2 ARG	9	-5.342	15.852	-3.454	1.00	0.00
ATOM	137	HD3 ARG	9	-5.508	15.701	-5.219	1.00	0.00
ATOM	138	NE ARG	9	-6.277	14.110	-4.113	1.00	0.00
ATOM	139	HE ARG	9	-6.875	13.959	-4.913	1.00	0.00
ATOM	140	CZ ARG	9	-6.473	13.357	-3.011	1.00	0.00
ATOM	141	NH1 ARG	9	-5.737	13.494	-1.896	1.00	0.00
ATOM	142	HH11 ARG	9	-5.001	14.185	-1.862	1.00	0.00
ATOM	143	HH12 ARG	9	-5.923	12.906	-1.097	1.00	0.00
ATOM	144	NH2 ARG	9	-7.432	12.421	-3.027	1.00	0.00
ATOM	145	HH21 ARG	9	-7.993	12.291	-3.857	1.00	0.00
ATOM	146	HH22 ARG	9	-7.590	11.850	-2.209	1.00	0.00
ATOM	147	C ARG	9	-1.667	12.911	-3.973	1.00	0.00
ATOM	148	O ARG	9	-0.891	13.649	-3.380	1.00	0.00
ATOM	149	N GLN	10	-1.938	11.705	-3.412	1.00	0.00
ATOM	150	H GLN	10	-2.532	11.003	-3.831	1.00	0.00
ATOM	151	CA GLN	10	-1.391	11.446	-2.103	1.00	0.00
ATOM	152	HA GLN	10	-1.630	12.254	-1.412	1.00	0.00
ATOM	153	CB GLN	10	-2.030	10.128	-1.569	1.00	0.00
ATOM	154	HB2 GLN	10	-1.717	9.348	-2.263	1.00	0.00
ATOM	155	HB3 GLN	10	-1.572	9.954	-0.596	1.00	0.00

ATOM	156	CG	GLN	10	-3.528	10.103	-1.430	1.00	0.00
ATOM	157	HG2	GLN	10	-3.644	10.697	-0.523	1.00	0.00
ATOM	158	HG3	GLN	10	-4.014	10.613	-2.262	1.00	0.00
ATOM	159	CD	GLN	10	-4.216	8.742	-1.218	1.00	0.00
ATOM	160	OE1	GLN	10	-3.666	7.657	-1.414	1.00	0.00
ATOM	161	NE2	GLN	10	-5.496	8.829	-0.960	1.00	0.00
ATOM	162	HE21	GLN	10	-6.035	7.989	-0.806	1.00	0.00
ATOM	163	HE22	GLN	10	-5.939	9.736	-0.917	1.00	0.00
ATOM	164	C	GLN	10	0.044	11.342	-2.006	1.00	0.00
ATOM	165	O	GLN	10	0.722	11.842	-1.159	1.00	0.00
ATOM	166	N	LEU	11	0.654	10.713	-3.059	1.00	0.00
ATOM	167	H	LEU	11	0.077	10.225	-3.730	1.00	0.00
ATOM	168	CA	LEU	11	2.067	10.581	-3.162	1.00	0.00
ATOM	169	HA	LEU	11	2.482	10.262	-2.206	1.00	0.00
ATOM	170	CB	LEU	11	2.425	9.529	-4.230	1.00	0.00
ATOM	171	HB2	LEU	11	1.806	8.664	-3.992	1.00	0.00
ATOM	172	HB3	LEU	11	2.138	9.923	-5.205	1.00	0.00
ATOM	173	CG	LEU	11	3.843	9.126	-4.261	1.00	0.00
ATOM	174	HG	LEU	11	4.434	10.028	-4.421	1.00	0.00
ATOM	175	CD1	LEU	11	4.307	8.435	-2.990	1.00	0.00
ATOM	176	HD11	LEU	11	3.716	7.533	-2.830	1.00	0.00
ATOM	177	HD12	LEU	11	5.359	8.168	-3.085	1.00	0.00

ATOM	178	HD13	LEU	11	4.179	9.108	-2.143	1.00	0.00
ATOM	179	CD2	LEU	11	4.090	8.197	-5.442	1.00	0.00
ATOM	180	HD21	LEU	11	3.842	8.714	-6.370	1.00	0.00
ATOM	181	HD22	LEU	11	5.139	7.903	-5.460	1.00	0.00
ATOM	182	HD23	LEU	11	3.465	7.309	-5.344	1.00	0.00
ATOM	183	C	LEU	11	2.796	11.887	-3.368	1.00	0.00
ATOM	184	O	LEU	11	3.864	12.097	-2.874	1.00	0.00
ATOM	185	N	ARG	12	2.114	12.729	-4.136	1.00	0.00
ATOM	186	H	ARG	12	1.216	12.507	-4.542	1.00	0.00
ATOM	187	CA	ARG	12	2.715	14.078	-4.427	1.00	0.00
ATOM	188	HA	ARG	12	3.706	13.954	-4.862	1.00	0.00
ATOM	189	CB	ARG	12	1.867	14.832	-5.387	1.00	0.00
ATOM	190	HB2	ARG	12	1.904	14.326	-6.352	1.00	0.00
ATOM	191	HB3	ARG	12	0.842	14.832	-5.017	1.00	0.00
ATOM	192	CG	ARG	12	2.346	16.263	-5.548	1.00	0.00
ATOM	193	HG2	ARG	12	2.306	16.724	-4.561	1.00	0.00
ATOM	194	HG3	ARG	12	3.381	16.215	-5.885	1.00	0.00
ATOM	195	CD	ARG	12	1.540	17.087	-6.520	1.00	0.00
ATOM	196	HD2	ARG	12	1.981	18.084	-6.530	1.00	0.00
ATOM	197	HD3	ARG	12	1.662	16.627	-7.501	1.00	0.00
ATOM	198	NE	ARG	12	0.165	17.206	-6.246	1.00	0.00
ATOM	199	HE	ARG	12	-0.480	16.660	-6.800	1.00	0.00

ATOM	200	CZ	ARG	12	-0.308	17.909	-5.254	1.00	0.00
ATOM	201	NH1	ARG	12	0.498	18.602	-4.493	1.00	0.00
ATOM	202	HH11	ARG	12	1.491	18.593	-4.675	1.00	0.00
ATOM	203	HH12	ARG	12	0.123	19.144	-3.727	1.00	0.00
ATOM	204	NH2	ARG	12	-1.546	18.002	-5.082	1.00	0.00
ATOM	205	HH21	ARG	12	-2.178	17.531	-5.714	1.00	0.00
ATOM	206	HH22	ARG	12	-1.907	18.548	-4.312	1.00	0.00
ATOM	207	C	ARG	12	2.818	14.834	-3.104	1.00	0.00
ATOM	208	O	ARG	12	3.832	15.436	-2.890	1.00	0.00
ATOM	209	N	ASN	13	1.850	14.626	-2.226	1.00	0.00
ATOM	210	H	ASN	13	1.001	14.164	-2.519	1.00	0.00
ATOM	211	CA	ASN	13	1.863	15.323	-0.864	1.00	0.00
ATOM	212	HA	ASN	13	2.270	16.330	-0.963	1.00	0.00
ATOM	213	CB	ASN	13	0.487	15.420	-0.334	1.00	0.00
ATOM	214	HB2	ASN	13	-0.062	14.481	-0.407	1.00	0.00
ATOM	215	HB3	ASN	13	0.608	15.689	0.715	1.00	0.00
ATOM	216	CG	ASN	13	-0.304	16.488	-1.011	1.00	0.00
ATOM	217	OD1	ASN	13	-0.086	17.646	-0.753	1.00	0.00
ATOM	218	ND2	ASN	13	-1.124	16.131	-1.918	1.00	0.00
ATOM	219	HD21	ASN	13	-1.677	16.828	-2.398	1.00	0.00
ATOM	220	HD22	ASN	13	-1.218	15.154	-2.153	1.00	0.00
ATOM	221	C	ASN	13	2.900	14.821	0.110	1.00	0.00

ATOM	222	O	ASN	13	3.156	15.396	1.196	1.00	0.00
ATOM	223	N	VAL	14	3.482	13.631	-0.174	1.00	0.00
ATOM	224	H	VAL	14	3.026	13.011	-0.828	1.00	0.00
ATOM	225	CA	VAL	14	4.615	13.181	0.475	1.00	0.00
ATOM	226	HA	VAL	14	4.754	13.519	1.502	1.00	0.00
ATOM	227	CB	VAL	14	4.665	11.588	0.452	1.00	0.00
ATOM	228	HB	VAL	14	4.589	11.235	-0.576	1.00	0.00
ATOM	229	CG1	VAL	14	5.993	11.115	1.059	1.00	0.00
ATOM	230	HG11	VAL	14	6.069	11.468	2.087	1.00	0.00
ATOM	231	HG12	VAL	14	6.031	10.026	1.045	1.00	0.00
ATOM	232	HG13	VAL	14	6.822	11.515	0.476	1.00	0.00
ATOM	233	CG2	VAL	14	3.445	11.052	1.067	1.00	0.00
ATOM	234	HG21	VAL	14	2.574	11.397	0.508	1.00	0.00
ATOM	235	HG22	VAL	14	3.478	9.963	1.052	1.00	0.00
ATOM	236	HG23	VAL	14	3.375	11.399	2.098	1.00	0.00
ATOM	237	C	VAL	14	5.924	13.804	-0.092	1.00	0.00
ATOM	238	O	VAL	14	6.090	13.928	-1.308	1.00	0.00
ATOM	239	N	SER	15	6.869	14.187	0.778	1.00	0.00
ATOM	240	H	SER	15	6.763	14.010	1.766	1.00	0.00
ATOM	241	CA	SER	15	8.115	14.789	0.312	1.00	0.00
ATOM	242	HA	SER	15	7.895	15.721	-0.210	1.00	0.00
ATOM	243	CB	SER	15	9.040	15.089	1.467	1.00	0.00



ATOM	244	HB2	SER	15	9.286	14.203	2.052	1.00	0.00
ATOM	245	HB3	SER	15	9.959	15.584	1.154	1.00	0.00
ATOM	246	OG	SER	15	8.285	15.962	2.244	1.00	0.00
ATOM	247	HG	SER	15	8.790	16.220	3.018	1.00	0.00
ATOM	248	C	SER	15	8.874	13.874	-0.526	1.00	0.00
ATOM	249	O	SER	15	8.880	12.648	-0.233	1.00	0.00
ATOM	250	N	PRO	16	9.506	14.357	-1.590	1.00	0.00
ATOM	251	CD	PRO	16	9.447	15.760	-2.169	1.00	0.00
ATOM	252	HD2	PRO	16	9.909	16.461	-1.474	1.00	0.00
ATOM	253	HD3	PRO	16	8.407	16.044	-2.332	1.00	0.00
ATOM	254	CG	PRO	16	10.221	15.631	-3.466	1.00	0.00
ATOM	255	HG2	PRO	16	10.791	16.544	-3.637	1.00	0.00
ATOM	256	HG3	PRO	16	9.521	15.482	-4.289	1.00	0.00
ATOM	257	CB	PRO	16	11.109	14.462	-3.310	1.00	0.00
ATOM	258	HB2	PRO	16	12.027	14.696	-2.772	1.00	0.00
ATOM	259	HB3	PRO	16	11.356	14.023	-4.277	1.00	0.00
ATOM	260	CA	PRO	16	10.254	13.475	-2.486	1.00	0.00
ATOM	261	HA	PRO	16	9.525	12.994	-3.138	1.00	0.00
ATOM	262	C	PRO	16	11.088	12.405	-1.776	1.00	0.00
ATOM	263	O	PRO	16	11.032	11.202	-2.100	1.00	0.00
ATOM	264	N	PHE	17	11.838	12.807	-0.761	1.00	0.00
ATOM	265	H	PHE	17	11.862	13.777	-0.479	1.00	0.00

ATOM	266	CA	PHE	17	12.735	11.857	-0.078	1.00	0.00
ATOM	267	HA	PHE	17	13.304	11.301	-0.823	1.00	0.00
ATOM	268	CB	PHE	17	13.724	12.585	0.856	1.00	0.00
ATOM	269	HB2	PHE	17	14.519	13.011	0.244	1.00	0.00
ATOM	270	HB3	PHE	17	13.236	13.380	1.421	1.00	0.00
ATOM	271	CG	PHE	17	14.401	11.671	1.880	1.00	0.00
ATOM	272	CD1	PHE	17	15.382	10.739	1.475	1.00	0.00
ATOM	273	HD1	PHE	17	15.678	10.693	0.427	1.00	0.00
ATOM	274	CE1	PHE	17	15.974	9.877	2.410	1.00	0.00
ATOM	275	HE1	PHE	17	16.731	9.162	2.089	1.00	0.00
ATOM	276	CZ	PHE	17	15.591	9.935	3.758	1.00	0.00
ATOM	277	HZ	PHE	17	16.057	9.265	4.480	1.00	0.00
ATOM	278	CE2	PHE	17	14.619	10.845	4.177	1.00	0.00
ATOM	279	HE2	PHE	17	14.321	10.887	5.225	1.00	0.00
ATOM	280	CD2	PHE	17	14.027	11.704	3.248	1.00	0.00
ATOM	281	HD2	PHE	17	13.265	12.414	3.570	1.00	0.00
ATOM	282	C	PHE	17	11.965	10.778	0.702	1.00	0.00
ATOM	283	O	PHE	17	12.542	9.735	1.011	1.00	0.00
ATOM	284	N	CYX	18	10.708	11.040	1.027	1.00	0.00
ATOM	285	H	CYX	18	10.302	11.905	0.699	1.00	0.00
ATOM	286	CA	CYX	18	9.887	10.154	1.804	1.00	0.00
ATOM	287	HA	CYX	18	10.541	9.510	2.391	1.00	0.00

ATOM	288	CB	CYX	18	8.964	10.855	2.724	1.00	0.00
ATOM	289	HB2	CYX	18	8.456	11.657	2.188	1.00	0.00
ATOM	290	HB3	CYX	18	8.226	10.150	3.106	1.00	0.00
ATOM	291	SG	CYX	18	10.012	11.570	4.109	1.00	0.00
ATOM	292	C	CYX	18	8.989	9.282	0.850	1.00	0.00
ATOM	293	O	CYX	18	8.263	8.458	1.412	1.00	0.00
ATOM	294	N	ARG	19	9.031	9.466	-0.486	1.00	0.00
ATOM	295	H	ARG	19	9.729	10.032	-0.946	1.00	0.00
ATOM	296	CA	ARG	19	8.011	8.830	-1.304	1.00	0.00
ATOM	297	HA	ARG	19	7.042	8.999	-0.834	1.00	0.00
ATOM	298	CB	ARG	19	7.958	9.351	-2.710	1.00	0.00
ATOM	299	HB2	ARG	19	8.969	9.453	-3.105	1.00	0.00
ATOM	300	HB3	ARG	19	7.390	8.664	-3.338	1.00	0.00
ATOM	301	CG	ARG	19	7.271	10.724	-2.705	1.00	0.00
ATOM	302	HG2	ARG	19	6.234	10.553	-2.414	1.00	0.00
ATOM	303	HG3	ARG	19	7.769	11.319	-1.940	1.00	0.00
ATOM	304	CD	ARG	19	7.307	11.454	-4.002	1.00	0.00
ATOM	305	HD2	ARG	19	8.340	11.581	-4.325	1.00	0.00
ATOM	306	HD3	ARG	19	6.757	10.892	-4.757	1.00	0.00
ATOM	307	NE	ARG	19	6.698	12.765	-3.864	1.00	0.00
ATOM	308	HE	ARG	19	6.003	12.849	-3.136	1.00	0.00
ATOM	309	CZ	ARG	19	7.006	13.837	-4.565	1.00	0.00

ATOM	310	NH1	ARG	19	7.954	13.807	-5.489	1.00	0.00
ATOM	311	HH11	ARG	19	8.455	12.949	-5.666	1.00	0.00
ATOM	312	HH12	ARG	19	8.171	14.643	-6.013	1.00	0.00
ATOM	313	NH2	ARG	19	6.296	14.969	-4.361	1.00	0.00
ATOM	314	HH21	ARG	19	5.548	14.977	-3.682	1.00	0.00
ATOM	315	HH22	ARG	19	6.516	15.802	-4.889	1.00	0.00
ATOM	316	C	ARG	19	8.305	7.308	-1.352	1.00	0.00
ATOM	317	O	ARG	19	7.395	6.559	-1.164	1.00	0.00
ATOM	318	N	CYX	20	9.573	6.993	-1.522	1.00	0.00
ATOM	319	H	CYX	20	10.273	7.686	-1.746	1.00	0.00
ATOM	320	CA	CYX	20	9.953	5.518	-1.632	1.00	0.00
ATOM	321	HA	CYX	20	9.207	5.024	-2.256	1.00	0.00
ATOM	322	CB	CYX	20	11.317	5.277	-2.229	1.00	0.00
ATOM	323	HB2	CYX	20	12.066	5.826	-1.658	1.00	0.00
ATOM	324	HB3	CYX	20	11.545	4.212	-2.198	1.00	0.00
ATOM	325	SG	CYX	20	11.335	5.644	-3.991	1.00	0.00
ATOM	326	C	CYX	20	9.707	4.808	-0.315	1.00	0.00
ATOM	327	O	CYX	20	9.052	3.760	-0.293	1.00	0.00
ATOM	328	N	PRO	21	10.143	5.363	0.816	1.00	0.00
ATOM	329	CD	PRO	21	11.232	6.340	0.983	1.00	0.00
ATOM	330	HD2	PRO	21	10.907	7.312	0.609	1.00	0.00
ATOM	331	HD3	PRO	21	12.105	6.009	0.421	1.00	0.00

ATOM	332	CG	PRO	21	11.468	6.343	2.441	1.00	0.00
ATOM	333	HG2	PRO	21	11.692	7.367	2.741	1.00	0.00
ATOM	334	HG3	PRO	21	12.331	5.709	2.641	1.00	0.00
ATOM	335	CB	PRO	21	10.318	5.853	3.099	1.00	0.00
ATOM	336	HB2	PRO	21	9.587	6.638	3.294	1.00	0.00
ATOM	337	HB3	PRO	21	10.574	5.355	4.034	1.00	0.00
ATOM	338	CA	PRO	21	9.735	4.830	2.100	1.00	0.00
ATOM	339	HA	PRO	21	10.207	3.852	2.192	1.00	0.00
ATOM	340	C	PRO	21	8.255	4.691	2.298	1.00	0.00
ATOM	341	O	PRO	21	7.771	3.655	2.836	1.00	0.00
ATOM	342	N	SER	22	7.442	5.658	1.834	1.00	0.00
ATOM	343	H	SER	22	7.827	6.466	1.365	1.00	0.00
ATOM	344	CA	SER	22	6.077	5.617	2.056	1.00	0.00
ATOM	345	HA	SER	22	5.892	5.333	3.092	1.00	0.00
ATOM	346	CB	SER	22	5.413	6.978	1.794	1.00	0.00
ATOM	347	HB2	SER	22	5.695	7.380	0.820	1.00	0.00
ATOM	348	HB3	SER	22	4.327	6.912	1.858	1.00	0.00
ATOM	349	OG	SER	22	5.888	7.822	2.801	1.00	0.00
ATOM	350	HG	SER	22	5.506	8.697	2.692	1.00	0.00
ATOM	351	C	SER	22	5.373	4.494	1.190	1.00	0.00
ATOM	352	O	SER	22	4.436	3.926	1.635	1.00	0.00
ATOM	353	N	LEU	23	5.889	4.361	-0.008	1.00	0.00

ATOM	354	H	LEU	23	6.630	4.985	-0.296	1.00	0.00
ATOM	355	CA	LEU	23	5.407	3.355	-0.974	1.00	0.00
ATOM	356	HA	LEU	23	4.328	3.478	-1.069	1.00	0.00
ATOM	357	CB	LEU	23	6.023	3.451	-2.340	1.00	0.00
ATOM	358	HB2	LEU	23	7.030	3.829	-2.166	1.00	0.00
ATOM	359	HB3	LEU	23	6.077	2.518	-2.900	1.00	0.00
ATOM	360	CG	LEU	23	5.218	4.488	-3.148	1.00	0.00
ATOM	361	HG	LEU	23	5.069	5.401	-2.571	1.00	0.00
ATOM	362	CD1	LEU	23	6.017	4.795	-4.361	1.00	0.00
ATOM	363	HD11	LEU	23	6.165	3.883	-4.939	1.00	0.00
ATOM	364	HD12	LEU	23	5.487	5.528	-4.970	1.00	0.00
ATOM	365	HD13	LEU	23	6.985	5.200	-4.066	1.00	0.00
ATOM	366	CD2	LEU	23	3.838	4.057	-3.421	1.00	0.00
ATOM	367	HD21	LEU	23	3.315	3.893	-2.479	1.00	0.00
ATOM	368	HD22	LEU	23	3.322	4.829	-3.993	1.00	0.00
ATOM	369	HD23	LEU	23	3.853	3.130	-3.994	1.00	0.00
ATOM	370	C	LEU	23	5.739	1.991	-0.312	1.00	0.00
ATOM	371	O	LEU	23	4.915	1.099	-0.493	1.00	0.00
ATOM	372	N	ARG	24	6.900	1.830	0.252	1.00	0.00
ATOM	373	H	ARG	24	7.592	2.565	0.279	1.00	0.00
ATOM	374	CA	ARG	24	7.202	0.531	0.971	1.00	0.00
ATOM	375	HA	ARG	24	7.243	-0.289	0.255	1.00	0.00

ATOM	376	CB	ARG	24	8.518	0.623	1.668	1.00	0.00
ATOM	377	HB2	ARG	24	9.295	0.748	0.914	1.00	0.00
ATOM	378	HB3	ARG	24	8.500	1.498	2.318	1.00	0.00
ATOM	379	CG	ARG	24	8.812	-0.631	2.505	1.00	0.00
ATOM	380	HG2	ARG	24	8.048	-0.725	3.276	1.00	0.00
ATOM	381	HG3	ARG	24	8.779	-1.504	1.853	1.00	0.00
ATOM	382	CD	ARG	24	10.181	-0.538	3.157	1.00	0.00
ATOM	383	HD2	ARG	24	10.167	0.325	3.823	1.00	0.00
ATOM	384	HD3	ARG	24	10.326	-1.446	3.742	1.00	0.00
ATOM	385	NE	ARG	24	11.300	-0.395	2.230	1.00	0.00
ATOM	386	HE	ARG	24	11.578	0.550	2.004	1.00	0.00
ATOM	387	CZ	ARG	24	11.987	-1.411	1.688	1.00	0.00
ATOM	388	NH1	ARG	24	11.648	-2.702	1.895	1.00	0.00
ATOM	389	HH11	ARG	24	10.852	-2.925	2.475	1.00	0.00
ATOM	390	HH12	ARG	24	12.191	-3.438	1.468	1.00	0.00
ATOM	391	NH2	ARG	24	13.026	-1.124	0.895	1.00	0.00
ATOM	392	HH21	ARG	24	13.272	-0.160	0.720	1.00	0.00
ATOM	393	HH22	ARG	24	13.558	-1.872	0.475	1.00	0.00
ATOM	394	C	ARG	24	6.147	0.307	2.072	1.00	0.00
ATOM	395	O	ARG	24	5.575	-0.830	2.243	1.00	0.00
ATOM	396	N	GLN	25	5.841	1.331	2.868	1.00	0.00
ATOM	397	H	GLN	25	6.361	2.197	2.860	1.00	0.00

ATOM	398	CA	GLN	25	4.752	1.175	3.862	1.00	0.00
ATOM	399	HA	GLN	25	4.953	0.310	4.494	1.00	0.00
ATOM	400	CB	GLN	25	4.644	2.435	4.765	1.00	0.00
ATOM	401	HB2	GLN	25	4.426	3.298	4.135	1.00	0.00
ATOM	402	HB3	GLN	25	3.828	2.288	5.472	1.00	0.00
ATOM	403	CG	GLN	25	5.947	2.680	5.533	1.00	0.00
ATOM	404	HG2	GLN	25	6.349	1.710	5.825	1.00	0.00
ATOM	405	HG3	GLN	25	6.665	3.193	4.892	1.00	0.00
ATOM	406	CD	GLN	25	5.731	3.519	6.794	1.00	0.00
ATOM	407	OE1	GLN	25	5.592	4.765	6.746	1.00	0.00
ATOM	408	NE2	GLN	25	5.729	2.840	7.943	1.00	0.00
ATOM	409	HE21	GLN	25	5.591	3.330	8.815	1.00	0.00
ATOM	410	HE22	GLN	25	5.864	1.840	7.935	1.00	0.00
ATOM	411	C	GLN	25	3.391	0.884	3.296	1.00	0.00
ATOM	412	O	GLN	25	2.583	0.117	3.814	1.00	0.00
ATOM	413	N	ALA	26	3.070	1.414	2.068	1.00	0.00
ATOM	414	H	ALA	26	3.702	2.060	1.616	1.00	0.00
ATOM	415	CA	ALA	26	1.869	1.087	1.411	1.00	0.00
ATOM	416	HA	ALA	26	1.041	1.316	2.082	1.00	0.00
ATOM	417	CB	ALA	26	1.736	1.938	0.174	1.00	0.00
ATOM	418	HB1	ALA	26	2.553	1.714	-0.512	1.00	0.00
ATOM	419	HB2	ALA	26	0.784	1.725	-0.314	1.00	0.00



ATOM	420	HB3	ALA	26	1.774	2.992	0.451	1.00	0.00
ATOM	421	C	ALA	26	1.757	-0.417	0.957	1.00	0.00
ATOM	422	O	ALA	26	0.629	-0.899	0.984	1.00	0.00
ATOM	423	N	VAL	27	2.856	-0.913	0.509	1.00	0.00
ATOM	424	H	VAL	27	3.672	-0.321	0.443	1.00	0.00
ATOM	425	CA	VAL	27	2.976	-2.375	0.049	1.00	0.00
ATOM	426	HA	VAL	27	2.201	-2.504	-0.707	1.00	0.00
ATOM	427	CB	VAL	27	4.282	-2.781	-0.535	1.00	0.00
ATOM	428	HB	VAL	27	5.085	-2.522	0.154	1.00	0.00
ATOM	429	CG1	VAL	27	4.284	-4.299	-0.777	1.00	0.00
ATOM	430	HG11	VAL	27	3.481	-4.558	-1.467	1.00	0.00
ATOM	431	HG12	VAL	27	5.240	-4.598	-1.205	1.00	0.00
ATOM	432	HG13	VAL	27	4.131	-4.818	0.169	1.00	0.00
ATOM	433	CG2	VAL	27	4.561	-2.120	-1.913	1.00	0.00
ATOM	434	HG21	VAL	27	4.571	-1.035	-1.801	1.00	0.00
ATOM	435	HG22	VAL	27	5.528	-2.455	-2.288	1.00	0.00
ATOM	436	HG23	VAL	27	3.780	-2.405	-2.618	1.00	0.00
ATOM	437	C	VAL	27	2.703	-3.201	1.324	1.00	0.00
ATOM	438	O	VAL	27	1.802	-4.075	1.288	1.00	0.00
ATOM	439	N	GLN	28	3.335	-2.840	2.443	1.00	0.00
ATOM	440	H	GLN	28	4.039	-2.116	2.437	1.00	0.00
ATOM	441	CA	GLN	28	3.099	-3.577	3.701	1.00	0.00

ATOM	442	HA	GLN	28	3.293	-4.640	3.563	1.00	0.00
ATOM	443	CB	GLN	28	4.026	-3.054	4.752	1.00	0.00
ATOM	444	HB2	GLN	28	3.903	-1.971	4.790	1.00	0.00
ATOM	445	HB3	GLN	28	3.721	-3.487	5.705	1.00	0.00
ATOM	446	CG	GLN	28	5.420	-3.375	4.498	1.00	0.00
ATOM	447	HG2	GLN	28	5.584	-4.427	4.730	1.00	0.00
ATOM	448	HG3	GLN	28	5.671	-3.190	3.453	1.00	0.00
ATOM	449	CD	GLN	28	6.342	-2.530	5.379	1.00	0.00
ATOM	450	OE1	GLN	28	5.877	-1.748	6.192	1.00	0.00
ATOM	451	NE2	GLN	28	7.637	-2.676	5.196	1.00	0.00
ATOM	452	HE21	GLN	28	8.286	-2.140	5.753	1.00	0.00
ATOM	453	HE22	GLN	28	7.975	-3.323	4.498	1.00	0.00
ATOM	454	C	GLN	28	1.674	-3.498	4.082	1.00	0.00
ATOM	455	O	GLN	28	1.030	-4.478	4.529	1.00	0.00
ATOM	456	N	SER	29	1.076	-2.290	4.079	1.00	0.00
ATOM	457	H	SER	29	1.609	-1.456	3.878	1.00	0.00
ATOM	458	CA	SER	29	-0.306	-2.146	4.411	1.00	0.00
ATOM	459	HA	SER	29	-0.515	-2.577	5.390	1.00	0.00
ATOM	460	CB	SER	29	-0.641	-0.667	4.451	1.00	0.00
ATOM	461	HB2	SER	29	-0.435	-0.206	3.485	1.00	0.00
ATOM	462	HB3	SER	29	-1.692	-0.523	4.705	1.00	0.00
ATOM	463	OG	SER	29	0.160	-0.074	5.430	1.00	0.00

ATOM	464	HG	SER	29	-0.033	0.866	5.475	1.00	0.00
ATOM	465	C	SER	29	-1.316	-2.815	3.526	1.00	0.00
ATOM	466	O	SER	29	-2.406	-3.261	3.959	1.00	0.00
ATOM	467	N	ALA	30	-1.007	-2.835	2.221	1.00	0.00
ATOM	468	H	ALA	30	-0.221	-2.312	1.863	1.00	0.00
ATOM	469	CA	ALA	30	-1.845	-3.524	1.287	1.00	0.00
ATOM	470	HA	ALA	30	-2.855	-3.132	1.410	1.00	0.00
ATOM	471	CB	ALA	30	-1.390	-3.252	-0.130	1.00	0.00
ATOM	472	HB1	ALA	30	-0.384	-3.647	-0.271	1.00	0.00
ATOM	473	HB2	ALA	30	-2.072	-3.735	-0.830	1.00	0.00
ATOM	474	HB3	ALA	30	-1.387	-2.177	-0.311	1.00	0.00
ATOM	475	C	ALA	30	-1.908	-5.028	1.562	1.00	0.00
ATOM	476	O	ALA	30	-2.905	-5.627	1.344	1.00	0.00
ATOM	477	N	GLN	31	-0.850	-5.566	2.055	1.00	0.00
ATOM	478	H	GLN	31	-0.008	-5.024	2.185	1.00	0.00
ATOM	479	CA	GLN	31	-0.835	-7.023	2.456	1.00	0.00
ATOM	480	HA	GLN	31	-1.079	-7.650	1.598	1.00	0.00
ATOM	481	CB	GLN	31	0.497	-7.392	2.943	1.00	0.00
ATOM	482	HB2	GLN	31	0.761	-6.729	3.767	1.00	0.00
ATOM	483	HB3	GLN	31	0.463	-8.421	3.301	1.00	0.00
ATOM	484	CG	GLN	31	1.508	-7.276	1.875	1.00	0.00
ATOM	485	HG2	GLN	31	1.179	-7.925	1.063	1.00	0.00

ATOM	486	HG3	GLN	31	1.542	-6.244	1.523	1.00	0.00
ATOM	487	CD	GLN	31	2.876	-7.684	2.284	1.00	0.00
ATOM	488	OE1	GLN	31	3.834	-6.943	2.184	1.00	0.00
ATOM	489	NE2	GLN	31	2.975	-8.914	2.727	1.00	0.00
ATOM	490	HE21	GLN	31	3.872	-9.269	3.025	1.00	0.00
ATOM	491	HE22	GLN	31	2.153	-9.500	2.768	1.00	0.00
ATOM	492	C	GLN	31	-1.824	-7.337	3.554	1.00	0.00
ATOM	493	O	GLN	31	-2.356	-8.419	3.586	1.00	0.00
ATOM	494	N	GLN	32	-2.113	-6.390	4.429	1.00	0.00
ATOM	495	H	GLN	32	-1.634	-5.501	4.395	1.00	0.00
ATOM	496	CA	GLN	32	-3.095	-6.599	5.467	1.00	0.00
ATOM	497	HA	GLN	32	-2.887	-7.530	5.994	1.00	0.00
ATOM	498	CB	GLN	32	-3.051	-5.443	6.476	1.00	0.00
ATOM	499	HB2	GLN	32	-3.184	-4.508	5.931	1.00	0.00
ATOM	500	HB3	GLN	32	-3.873	-5.572	7.180	1.00	0.00
ATOM	501	CG	GLN	32	-1.746	-5.404	7.229	1.00	0.00
ATOM	502	HG2	GLN	32	-1.220	-6.355	7.155	1.00	0.00
ATOM	503	HG3	GLN	32	-1.125	-4.612	6.810	1.00	0.00
ATOM	504	CD	GLN	32	-1.994	-5.103	8.681	1.00	0.00
ATOM	505	OE1	GLN	32	-2.341	-3.978	9.044	1.00	0.00
ATOM	506	NE2	GLN	32	-1.849	-6.114	9.516	1.00	0.00
ATOM	507	HE21	GLN	32	-2.002	-5.974	10.504	1.00	0.00

ATOM	508	HE22	GLN	32	-1.586	-7.023	9.163	1.00	0.00
ATOM	509	C	GLN	32	-4.505	-6.712	4.991	1.00	0.00
ATOM	510	O	GLN	32	-5.337	-7.373	5.636	1.00	0.00
ATOM	511	N	GLN	33	-4.794	-6.082	3.865	1.00	0.00
ATOM	512	H	GLN	33	-4.106	-5.482	3.433	1.00	0.00
ATOM	513	CA	GLN	33	-6.100	-6.174	3.256	1.00	0.00
ATOM	514	HA	GLN	33	-6.880	-6.157	4.017	1.00	0.00
ATOM	515	CB	GLN	33	-6.300	-4.971	2.322	1.00	0.00
ATOM	516	HB2	GLN	33	-5.705	-5.156	1.427	1.00	0.00
ATOM	517	HB3	GLN	33	-7.357	-4.943	2.055	1.00	0.00
ATOM	518	CG	GLN	33	-5.890	-3.617	2.942	1.00	0.00
ATOM	519	HG2	GLN	33	-6.293	-3.531	3.951	1.00	0.00
ATOM	520	HG3	GLN	33	-4.801	-3.589	2.982	1.00	0.00
ATOM	521	CD	GLN	33	-6.374	-2.439	2.127	1.00	0.00
ATOM	522	OE1	GLN	33	-5.657	-1.904	1.261	1.00	0.00
ATOM	523	NE2	GLN	33	-7.619	-2.041	2.377	1.00	0.00
ATOM	524	HE21	GLN	33	-8.008	-1.259	1.869	1.00	0.00
ATOM	525	HE22	GLN	33	-8.170	-2.522	3.073	1.00	0.00
ATOM	526	C	GLN	33	-6.253	-7.511	2.500	1.00	0.00
ATOM	527	O	GLN	33	-7.269	-7.743	1.887	1.00	0.00
ATOM	528	N	GLN	34	-5.213	-8.339	2.466	1.00	0.00
ATOM	529	H	GLN	34	-4.356	-8.070	2.927	1.00	0.00

ATOM	530	CA	GLN	34	-5.251	-9.628	1.766	1.00	0.00
ATOM	531	HA	GLN	34	-6.232	-9.795	1.320	1.00	0.00
ATOM	532	CB	GLN	34	-4.196	-9.613	0.643	1.00	0.00
ATOM	533	HB2	GLN	34	-3.218	-9.539	1.118	1.00	0.00
ATOM	534	HB3	GLN	34	-4.272	-10.563	0.114	1.00	0.00
ATOM	535	CG	GLN	34	-4.366	-8.476	-0.337	1.00	0.00
ATOM	536	HG2	GLN	34	-5.371	-8.499	-0.759	1.00	0.00
ATOM	537	HG3	GLN	34	-4.229	-7.550	0.222	1.00	0.00
ATOM	538	CD	GLN	34	-3.367	-8.509	-1.468	1.00	0.00
ATOM	539	OE1	GLN	34	-3.483	-9.293	-2.409	1.00	0.00
ATOM	540	NE2	GLN	34	-2.400	-7.628	-1.395	1.00	0.00
ATOM	541	HE21	GLN	34	-1.697	-7.594	-2.119	1.00	0.00
ATOM	542	HE22	GLN	34	-2.363	-6.987	-0.616	1.00	0.00
ATOM	543	C	GLN	34	-4.985	-10.861	2.604	1.00	0.00
ATOM	544	O	GLN	34	-5.405	-11.958	2.217	1.00	0.00
ATOM	545	N	GLY	35	-4.218	-10.746	3.684	1.00	0.00
ATOM	546	H	GLY	35	-3.965	-9.843	4.059	1.00	0.00
ATOM	547	CA	GLY	35	-3.716	-11.948	4.363	1.00	0.00
ATOM	548	HA2	GLY	35	-3.141	-11.653	5.240	1.00	0.00
ATOM	549	HA3	GLY	35	-4.559	-12.566	4.672	1.00	0.00
ATOM	550	C	GLY	35	-2.818	-12.762	3.430	1.00	0.00
ATOM	551	O	GLY	35	-2.126	-12.179	2.605	1.00	0.00

ATOM	552	N	GLN	36	-2.864	-14.092	3.530	1.00	0.00
ATOM	553	H	GLN	36	-3.618	-14.518	4.050	1.00	0.00
ATOM	554	CA	GLN	36	-1.787	-14.962	3.019	1.00	0.00
ATOM	555	HA	GLN	36	-0.874	-14.744	3.572	1.00	0.00
ATOM	556	CB	GLN	36	-2.108	-16.476	3.167	1.00	0.00
ATOM	557	HB2	GLN	36	-3.188	-16.549	3.295	1.00	0.00
ATOM	558	HB3	GLN	36	-1.822	-16.943	2.225	1.00	0.00
ATOM	559	CG	GLN	36	-1.407	-17.192	4.326	1.00	0.00
ATOM	560	HG2	GLN	36	-1.673	-16.705	5.264	1.00	0.00
ATOM	561	HG3	GLN	36	-1.751	-18.226	4.343	1.00	0.00
ATOM	562	CD	GLN	36	0.108	-17.186	4.187	1.00	0.00
ATOM	563	OE1	GLN	36	0.676	-17.844	3.307	1.00	0.00
ATOM	564	NE2	GLN	36	0.769	-16.425	5.051	1.00	0.00
ATOM	565	HE21	GLN	36	1.777	-16.378	5.010	1.00	0.00
ATOM	566	HE22	GLN	36	0.260	-15.896	5.745	1.00	0.00
ATOM	567	C	GLN	36	-1.407	-14.637	1.580	1.00	0.00
ATOM	568	O	GLN	36	-2.119	-14.946	0.631	1.00	0.00
ATOM	569	N	VAL	37	-0.266	-13.981	1.450	1.00	0.00
ATOM	570	H	VAL	37	0.202	-13.654	2.282	1.00	0.00
ATOM	571	CA	VAL	37	0.290	-13.625	0.168	1.00	0.00
ATOM	572	HA	VAL	37	-0.221	-14.102	-0.669	1.00	0.00
ATOM	573	CB	VAL	37	0.280	-12.066	-0.059	1.00	0.00

ATOM	574	HB	VAL	37	-0.749	-11.766	-0.258	1.00	0.00
ATOM	575	CG1	VAL	37	0.814	-11.286	1.137	1.00	0.00
ATOM	576	HG11	VAL	37	1.843	-11.584	1.336	1.00	0.00
ATOM	577	HG12	VAL	37	0.781	-10.218	0.919	1.00	0.00
ATOM	578	HG13	VAL	37	0.199	-11.496	2.012	1.00	0.00
ATOM	579	CG2	VAL	37	1.025	-11.677	-1.306	1.00	0.00
ATOM	580	HG21	VAL	37	0.560	-12.150	-2.171	1.00	0.00
ATOM	581	HG22	VAL	37	0.994	-10.594	-1.426	1.00	0.00
ATOM	582	HG23	VAL	37	2.062	-12.004	-1.228	1.00	0.00
ATOM	583	C	VAL	37	1.689	-14.272	0.166	1.00	0.00
ATOM	584	O	VAL	37	2.528	-14.041	1.056	1.00	0.00
ATOM	585	N	GLY	38	1.908	-15.093	-0.830	1.00	0.00
ATOM	586	H	GLY	38	1.171	-15.367	-1.465	1.00	0.00
ATOM	587	CA	GLY	38	3.248	-15.638	-1.046	1.00	0.00
ATOM	588	HA2	GLY	38	3.487	-16.200	-0.143	1.00	0.00
ATOM	589	HA3	GLY	38	3.155	-16.325	-1.887	1.00	0.00
ATOM	590	C	GLY	38	4.370	-14.658	-1.330	1.00	0.00
ATOM	591	O	GLY	38	4.128	-13.514	-1.710	1.00	0.00
ATOM	592	N	PRO	39	5.613	-15.092	-1.167	1.00	0.00
ATOM	593	CD	PRO	39	6.029	-16.442	-0.687	1.00	0.00
ATOM	594	HD2	PRO	39	5.507	-17.210	-1.258	1.00	0.00
ATOM	595	HD3	PRO	39	5.784	-16.546	0.370	1.00	0.00



ATOM	596	CG	PRO	39	7.481	-16.446	-0.930	1.00	0.00
ATOM	597	HG2	PRO	39	7.673	-16.916	-1.895	1.00	0.00
ATOM	598	HG3	PRO	39	7.966	-17.022	-0.143	1.00	0.00
ATOM	599	CB	PRO	39	7.941	-15.036	-0.914	1.00	0.00
ATOM	600	HB2	PRO	39	8.810	-14.851	-1.546	1.00	0.00
ATOM	601	HB3	PRO	39	8.166	-14.735	0.109	1.00	0.00
ATOM	602	CA	PRO	39	6.759	-14.258	-1.430	1.00	0.00
ATOM	603	HA	PRO	39	6.669	-13.376	-0.796	1.00	0.00
ATOM	604	C	PRO	39	6.885	-13.831	-2.863	1.00	0.00
ATOM	605	O	PRO	39	7.423	-12.681	-3.108	1.00	0.00
ATOM	606	N	GLN	40	6.378	-14.586	-3.850	1.00	0.00
ATOM	607	H	GLN	40	5.955	-15.486	-3.674	1.00	0.00
ATOM	608	CA	GLN	40	6.507	-14.159	-5.185	1.00	0.00
ATOM	609	HA	GLN	40	7.512	-13.772	-5.355	1.00	0.00
ATOM	610	CB	GLN	40	6.267	-15.309	-6.130	1.00	0.00
ATOM	611	HB2	GLN	40	5.292	-15.747	-5.917	1.00	0.00
ATOM	612	HB3	GLN	40	6.280	-14.936	-7.154	1.00	0.00
ATOM	613	CG	GLN	40	7.345	-16.367	-5.962	1.00	0.00
ATOM	614	HG2	GLN	40	8.326	-16.009	-6.274	1.00	0.00
ATOM	615	HG3	GLN	40	7.354	-16.561	-4.890	1.00	0.00
ATOM	616	CD	GLN	40	7.045	-17.686	-6.699	1.00	0.00
ATOM	617	OE1	GLN	40	6.510	-18.653	-6.137	1.00	0.00

ATOM	618	NE2	GLN	40	7.284	-17.674	-7.929	1.00	0.00
ATOM	619	HE21	GLN	40	7.113	-18.502	-8.482	1.00	0.00
ATOM	620	HE22	GLN	40	7.646	-16.836	-8.362	1.00	0.00
ATOM	621	C	GLN	40	5.529	-12.984	-5.406	1.00	0.00
ATOM	622	O	GLN	40	5.851	-11.981	-6.061	1.00	0.00
ATOM	623	N	GLN	41	4.302	-13.150	-4.918	1.00	0.00
ATOM	624	H	GLN	41	4.011	-14.037	-4.532	1.00	0.00
ATOM	625	CA	GLN	41	3.313	-12.063	-4.991	1.00	0.00
ATOM	626	HA	GLN	41	3.213	-11.740	-6.028	1.00	0.00
ATOM	627	CB	GLN	41	1.955	-12.501	-4.489	1.00	0.00
ATOM	628	HB2	GLN	41	1.692	-13.463	-4.928	1.00	0.00
ATOM	629	HB3	GLN	41	1.974	-12.590	-3.403	1.00	0.00
ATOM	630	CG	GLN	41	0.919	-11.458	-4.895	1.00	0.00
ATOM	631	HG2	GLN	41	1.126	-10.565	-4.305	1.00	0.00
ATOM	632	HG3	GLN	41	1.065	-11.236	-5.952	1.00	0.00
ATOM	633	CD	GLN	41	-0.515	-11.852	-4.681	1.00	0.00
ATOM	634	OE1	GLN	41	-0.865	-13.037	-4.572	1.00	0.00
ATOM	635	NE2	GLN	41	-1.367	-10.852	-4.634	1.00	0.00
ATOM	636	HE21	GLN	41	-2.350	-11.036	-4.493	1.00	0.00
ATOM	637	HE22	GLN	41	-1.035	-9.904	-4.739	1.00	0.00
ATOM	638	C	GLN	41	3.739	-10.821	-4.224	1.00	0.00
ATOM	639	O	GLN	41	3.584	-9.694	-4.726	1.00	0.00

ATOM	640	N	VAL	42	4.346	-11.023	-3.087	1.00	0.00
ATOM	641	H	VAL	42	4.468	-11.936	-2.673	1.00	0.00
ATOM	642	CA	VAL	42	4.887	-9.831	-2.353	1.00	0.00
ATOM	643	HA	VAL	42	4.127	-9.077	-2.144	1.00	0.00
ATOM	644	CB	VAL	42	5.551	-10.237	-1.033	1.00	0.00
ATOM	645	HB	VAL	42	6.213	-11.079	-1.234	1.00	0.00
ATOM	646	CG1	VAL	42	6.358	-9.090	-0.408	1.00	0.00
ATOM	647	HG11	VAL	42	5.696	-8.247	-0.207	1.00	0.00
ATOM	648	HG12	VAL	42	6.808	-9.428	0.525	1.00	0.00
ATOM	649	HG13	VAL	42	7.142	-8.779	-1.098	1.00	0.00
ATOM	650	CG2	VAL	42	4.472	-10.755	-0.121	1.00	0.00
ATOM	651	HG21	VAL	42	3.987	-11.615	-0.583	1.00	0.00
ATOM	652	HG22	VAL	42	4.912	-11.053	0.830	1.00	0.00
ATOM	653	HG23	VAL	42	3.733	-9.971	0.050	1.00	0.00
ATOM	654	C	VAL	42	5.922	-9.127	-3.224	1.00	0.00
ATOM	655	O	VAL	42	5.938	-7.870	-3.320	1.00	0.00
ATOM	656	N	GLY	43	6.877	-9.839	-3.813	1.00	0.00
ATOM	657	H	GLY	43	6.949	-10.835	-3.666	1.00	0.00
ATOM	658	CA	GLY	43	7.813	-9.221	-4.659	1.00	0.00
ATOM	659	HA2	GLY	43	8.374	-8.497	-4.069	1.00	0.00
ATOM	660	HA3	GLY	43	8.490	-9.989	-5.031	1.00	0.00
ATOM	661	C	GLY	43	7.190	-8.522	-5.819	1.00	0.00

ATOM	662	O	GLY	43	7.581	-7.393	-6.094	1.00	0.00
ATOM	663	N	HIE	44	6.207	-9.070	-6.454	1.00	0.00
ATOM	664	H	HIE	44	6.031	-10.055	-6.318	1.00	0.00
ATOM	665	CA	HIE	44	5.442	-8.367	-7.472	1.00	0.00
ATOM	666	HA	HIE	44	6.105	-7.985	-8.248	1.00	0.00
ATOM	667	CB	HIE	44	4.437	-9.336	-8.118	1.00	0.00
ATOM	668	HB2	HIE	44	4.847	-10.234	-8.581	1.00	0.00
ATOM	669	HB3	HIE	44	3.791	-9.618	-7.286	1.00	0.00
ATOM	670	CG	HIE	44	3.559	-8.692	-9.140	1.00	0.00
ATOM	671	ND1	HIE	44	4.046	-8.295	-10.365	1.00	0.00
ATOM	672	CE1	HIE	44	3.072	-7.748	-11.070	1.00	0.00
ATOM	673	HE1	HIE	44	3.235	-7.420	-12.097	1.00	0.00
ATOM	674	NE2	HIE	44	1.992	-7.707	-10.308	1.00	0.00
ATOM	675	HE2	HIE	44	1.090	-7.342	-10.580	1.00	0.00
ATOM	676	CD2	HIE	44	2.287	-8.242	-9.079	1.00	0.00
ATOM	677	HD2	HIE	44	1.536	-8.238	-8.289	1.00	0.00
ATOM	678	C	HIE	44	4.787	-7.075	-6.968	1.00	0.00
ATOM	679	O	HIE	44	4.777	-6.094	-7.690	1.00	0.00
ATOM	680	N	MET	45	4.235	-7.081	-5.785	1.00	0.00
ATOM	681	H	MET	45	4.127	-7.927	-5.245	1.00	0.00
ATOM	682	CA	MET	45	3.629	-5.840	-5.268	1.00	0.00
ATOM	683	HA	MET	45	2.924	-5.439	-5.997	1.00	0.00

ATOM	684	CB	MET	45	2.885	-6.117	-3.975	1.00	0.00
ATOM	685	HB2	MET	45	3.586	-6.579	-3.281	1.00	0.00
ATOM	686	HB3	MET	45	2.552	-5.160	-3.572	1.00	0.00
ATOM	687	CG	MET	45	1.681	-7.034	-4.168	1.00	0.00
ATOM	688	HG2	MET	45	0.912	-6.440	-4.664	1.00	0.00
ATOM	689	HG3	MET	45	2.002	-7.837	-4.831	1.00	0.00
ATOM	690	SD	MET	45	1.004	-7.742	-2.672	1.00	0.00
ATOM	691	CE	MET	45	0.802	-6.162	-1.797	1.00	0.00
ATOM	692	HE1	MET	45	0.130	-5.516	-2.363	1.00	0.00
ATOM	693	HE2	MET	45	0.382	-6.345	-0.808	1.00	0.00
ATOM	694	HE3	MET	45	1.772	-5.676	-1.695	1.00	0.00
ATOM	695	C	MET	45	4.669	-4.748	-5.126	1.00	0.00
ATOM	696	O	MET	45	4.404	-3.580	-5.386	1.00	0.00
ATOM	697	N	TYR	46	5.862	-5.073	-4.672	1.00	0.00
ATOM	698	H	TYR	46	6.042	-5.979	-4.265	1.00	0.00
ATOM	699	CA	TYR	46	6.918	-4.094	-4.653	1.00	0.00
ATOM	700	HA	TYR	46	6.558	-3.186	-4.168	1.00	0.00
ATOM	701	CB	TYR	46	8.145	-4.604	-3.891	1.00	0.00
ATOM	702	HB2	TYR	46	8.324	-5.631	-4.207	1.00	0.00
ATOM	703	HB3	TYR	46	8.985	-3.979	-4.194	1.00	0.00
ATOM	704	CG	TYR	46	8.001	-4.558	-2.408	1.00	0.00
ATOM	705	CD1	TYR	46	8.212	-3.395	-1.686	1.00	0.00

ATOM	706	HD1 TYR	46	8.605	-2.509	-2.185	1.00	0.00
ATOM	707	CE1 TYR	46	7.921	-3.356	-0.317	1.00	0.00
ATOM	708	HE1 TYR	46	8.063	-2.412	0.210	1.00	0.00
ATOM	709	CZ TYR	46	7.709	-4.466	0.363	1.00	0.00
ATOM	710	OH TYR	46	7.447	-4.467	1.763	1.00	0.00
ATOM	711	HH TYR	46	7.443	-3.586	2.144	1.00	0.00
ATOM	712	CE2 TYR	46	7.495	-5.643	-0.325	1.00	0.00
ATOM	713	HE2 TYR	46	7.211	-6.548	0.211	1.00	0.00
ATOM	714	CD2 TYR	46	7.639	-5.670	-1.672	1.00	0.00
ATOM	715	HD2 TYR	46	7.467	-6.596	-2.220	1.00	0.00
ATOM	716	C TYR	46	7.336	-3.616	-6.027	1.00	0.00
ATOM	717	O TYR	46	7.676	-2.423	-6.260	1.00	0.00
ATOM	718	N ARG	47	7.357	-4.512	-7.004	1.00	0.00
ATOM	719	H ARG	47	7.326	-5.495	-6.776	1.00	0.00
ATOM	720	CA ARG	47	7.586	-4.135	-8.382	1.00	0.00
ATOM	721	HA ARG	47	8.509	-3.561	-8.460	1.00	0.00
ATOM	722	CB ARG	47	7.708	-5.381	-9.266	1.00	0.00
ATOM	723	HB2 ARG	47	8.441	-6.049	-8.814	1.00	0.00
ATOM	724	HB3 ARG	47	6.736	-5.874	-9.295	1.00	0.00
ATOM	725	CG ARG	47	8.146	-5.034	-10.692	1.00	0.00
ATOM	726	HG2 ARG	47	7.545	-4.205	-11.067	1.00	0.00
ATOM	727	HG3 ARG	47	9.197	-4.748	-10.691	1.00	0.00

ATOM	728	CD	ARG	47	7.950	-6.257	-11.596	1.00	0.00
ATOM	729	HD2	ARG	47	8.730	-6.959	-11.302	1.00	0.00
ATOM	730	HD3	ARG	47	6.975	-6.662	-11.324	1.00	0.00
ATOM	731	NE	ARG	47	7.998	-6.082	-13.076	1.00	0.00
ATOM	732	HE	ARG	47	7.109	-5.924	-13.530	1.00	0.00
ATOM	733	CZ	ARG	47	9.105	-6.127	-13.833	1.00	0.00
ATOM	734	NH1	ARG	47	10.324	-6.286	-13.302	1.00	0.00
ATOM	735	HH11	ARG	47	10.427	-6.376	-12.302	1.00	0.00
ATOM	736	HH12	ARG	47	11.134	-6.315	-13.905	1.00	0.00
ATOM	737	NH2	ARG	47	8.998	-6.001	-15.152	1.00	0.00
ATOM	738	HH21	ARG	47	8.088	-5.873	-15.572	1.00	0.00
ATOM	739	HH22	ARG	47	9.827	-6.034	-15.728	1.00	0.00
ATOM	740	C	ARG	47	6.581	-3.151	-8.907	1.00	0.00
ATOM	741	O	ARG	47	6.948	-2.153	-9.550	1.00	0.00
ATOM	742	N	VAL	48	5.321	-3.396	-8.659	1.00	0.00
ATOM	743	H	VAL	48	5.076	-4.218	-8.127	1.00	0.00
ATOM	744	CA	VAL	48	4.240	-2.497	-9.090	1.00	0.00
ATOM	745	HA	VAL	48	4.264	-2.412	-10.177	1.00	0.00
ATOM	746	CB	VAL	48	2.864	-3.029	-8.670	1.00	0.00
ATOM	747	HB	VAL	48	2.910	-3.290	-7.613	1.00	0.00
ATOM	748	CG1	VAL	48	1.775	-2.021	-8.889	1.00	0.00
ATOM	749	HG11	VAL	48	1.728	-1.760	-9.946	1.00	0.00

ATOM	750	HG12 VAL	48	0.820	-2.443	-8.577	1.00	0.00
ATOM	751	HG13 VAL	48	1.984	-1.126	-8.303	1.00	0.00
ATOM	752	CG2 VAL	48	2.606	-4.249	-9.534	1.00	0.00
ATOM	753	HG21 VAL	48	3.385	-4.990	-9.358	1.00	0.00
ATOM	754	HG22 VAL	48	1.635	-4.675	-9.281	1.00	0.00
ATOM	755	HG23 VAL	48	2.612	-3.958	-10.585	1.00	0.00
ATOM	756	C VAL	48	4.492	-1.173	-8.377	1.00	0.00
ATOM	757	O VAL	48	4.439	-0.064	-9.012	1.00	0.00
ATOM	758	N ALA	49	4.659	-1.217	-7.048	1.00	0.00
ATOM	759	H ALA	49	4.632	-2.086	-6.534	1.00	0.00
ATOM	760	CA ALA	49	4.833	0.023	-6.301	1.00	0.00
ATOM	761	HA ALA	49	3.934	0.625	-6.441	1.00	0.00
ATOM	762	CB ALA	49	5.027	-0.231	-4.790	1.00	0.00
ATOM	763	HB1 ALA	49	5.928	-0.824	-4.634	1.00	0.00
ATOM	764	HB2 ALA	49	5.125	0.722	-4.271	1.00	0.00
ATOM	765	HB3 ALA	49	4.164	-0.770	-4.398	1.00	0.00
ATOM	766	C ALA	49	5.997	0.804	-6.820	1.00	0.00
ATOM	767	O ALA	49	5.942	2.091	-6.850	1.00	0.00
ATOM	768	N SER	50	7.096	0.166	-7.209	1.00	0.00
ATOM	769	H SER	50	7.151	-0.804	-6.933	1.00	0.00
ATOM	770	CA SER	50	8.267	0.782	-7.782	1.00	0.00
ATOM	771	HA SER	50	8.616	1.579	-7.126	1.00	0.00



ATOM	772	CB	SER	50	9.417	-0.253	-7.963	1.00	0.00
ATOM	773	HB2	SER	50	10.379	0.255	-8.022	1.00	0.00
ATOM	774	HB3	SER	50	9.428	-0.957	-7.132	1.00	0.00
ATOM	775	OG	SER	50	9.180	-0.947	-9.161	1.00	0.00
ATOM	776	HG	SER	50	9.875	-1.594	-9.299	1.00	0.00
ATOM	777	C	SER	50	8.029	1.637	-9.035	1.00	0.00
ATOM	778	O	SER	50	8.781	2.567	-9.276	1.00	0.00
ATOM	779	N	ARG	51	6.957	1.356	-9.753	1.00	0.00
ATOM	780	H	ARG	51	6.317	0.645	-9.429	1.00	0.00
ATOM	781	CA	ARG	51	6.671	2.008	-10.977	1.00	0.00
ATOM	782	HA	ARG	51	7.611	2.308	-11.440	1.00	0.00
ATOM	783	CB	ARG	51	5.919	1.137	-11.940	1.00	0.00
ATOM	784	HB2	ARG	51	5.050	0.740	-11.415	1.00	0.00
ATOM	785	HB3	ARG	51	5.587	1.768	-12.765	1.00	0.00
ATOM	786	CG	ARG	51	6.761	-0.026	-12.492	1.00	0.00
ATOM	787	HG2	ARG	51	7.687	0.379	-12.898	1.00	0.00
ATOM	788	HG3	ARG	51	6.991	-0.707	-11.673	1.00	0.00
ATOM	789	CD	ARG	51	6.024	-0.772	-13.572	1.00	0.00
ATOM	790	HD2	ARG	51	5.052	-1.081	-13.187	1.00	0.00
ATOM	791	HD3	ARG	51	5.881	-0.108	-14.425	1.00	0.00
ATOM	792	NE	ARG	51	6.763	-1.980	-14.027	1.00	0.00
ATOM	793	HE	ARG	51	6.671	-2.851	-13.524	1.00	0.00

ATOM	794	CZ	ARG	51	7.586	-1.933	-15.067	1.00	0.00
ATOM	795	NH1	ARG	51	7.738	-0.856	-15.742	1.00	0.00
ATOM	796	HH11	ARG	51	7.225	-0.025	-15.484	1.00	0.00
ATOM	797	HH12	ARG	51	8.369	-0.842	-16.530	1.00	0.00
ATOM	798	NH2	ARG	51	8.219	-3.022	-15.432	1.00	0.00
ATOM	799	HH21	ARG	51	8.075	-3.881	-14.921	1.00	0.00
ATOM	800	HH22	ARG	51	8.847	-2.996	-16.222	1.00	0.00
ATOM	801	C	ARG	51	5.838	3.251	-10.732	1.00	0.00
ATOM	802	O	ARG	51	5.691	4.067	-11.624	1.00	0.00
ATOM	803	N	ILE	52	5.246	3.388	-9.525	1.00	0.00
ATOM	804	H	ILE	52	5.374	2.703	-8.795	1.00	0.00
ATOM	805	CA	ILE	52	4.260	4.410	-9.332	1.00	0.00
ATOM	806	HA	ILE	52	3.582	4.503	-10.181	1.00	0.00
ATOM	807	CB	ILE	52	3.444	4.137	-8.049	1.00	0.00
ATOM	808	HB	ILE	52	4.131	3.913	-7.233	1.00	0.00
ATOM	809	CG2	ILE	52	2.578	5.387	-7.673	1.00	0.00
ATOM	810	HG21	ILE	52	1.890	5.612	-8.489	1.00	0.00
ATOM	811	HG22	ILE	52	2.010	5.177	-6.767	1.00	0.00
ATOM	812	HG23	ILE	52	3.230	6.244	-7.502	1.00	0.00
ATOM	813	CG1	ILE	52	2.606	2.879	-8.251	1.00	0.00
ATOM	814	HG12	ILE	52	1.928	3.050	-9.088	1.00	0.00
ATOM	815	HG13	ILE	52	3.277	2.055	-8.491	1.00	0.00

ATOM	816	CD1	ILE	52	1.797	2.530	-7.003	1.00	0.00
ATOM	817	HD11	ILE	52	1.124	3.354	-6.763	1.00	0.00
ATOM	818	HD12	ILE	52	1.213	1.628	-7.188	1.00	0.00
ATOM	819	HD13	ILE	52	2.474	2.359	-6.167	1.00	0.00
ATOM	820	C	ILE	52	4.809	5.836	-9.410	1.00	0.00
ATOM	821	O	ILE	52	4.156	6.679	-10.026	1.00	0.00
ATOM	822	N	PRO	53	5.960	6.065	-8.871	1.00	0.00
ATOM	823	CD	PRO	53	6.844	5.293	-7.953	1.00	0.00
ATOM	824	HD2	PRO	53	7.474	4.634	-8.550	1.00	0.00
ATOM	825	HD3	PRO	53	6.219	4.695	-7.290	1.00	0.00
ATOM	826	CG	PRO	53	7.644	6.344	-7.203	1.00	0.00
ATOM	827	HG2	PRO	53	8.621	5.970	-6.898	1.00	0.00
ATOM	828	HG3	PRO	53	7.108	6.714	-6.329	1.00	0.00
ATOM	829	CB	PRO	53	7.768	7.404	-8.237	1.00	0.00
ATOM	830	HB2	PRO	53	8.568	7.099	-8.911	1.00	0.00
ATOM	831	HB3	PRO	53	7.999	8.384	-7.820	1.00	0.00
ATOM	832	CA	PRO	53	6.477	7.458	-8.976	1.00	0.00
ATOM	833	HA	PRO	53	5.747	8.132	-8.526	1.00	0.00
ATOM	834	C	PRO	53	6.713	7.863	-10.432	1.00	0.00
ATOM	835	O	PRO	53	6.250	8.942	-10.810	1.00	0.00
ATOM	836	N	ALA	54	7.263	7.018	-11.320	1.00	0.00
ATOM	837	H	ALA	54	7.805	6.204	-11.070	1.00	0.00

ATOM	838	CA	ALA	54	7.216	7.418	-12.741	1.00	0.00
ATOM	839	HA	ALA	54	7.703	8.392	-12.686	1.00	0.00
ATOM	840	CB	ALA	54	8.054	6.509	-13.597	1.00	0.00
ATOM	841	HB1	ALA	54	7.574	5.533	-13.669	1.00	0.00
ATOM	842	HB2	ALA	54	8.154	6.939	-14.594	1.00	0.00
ATOM	843	HB3	ALA	54	9.041	6.396	-13.150	1.00	0.00
ATOM	844	C	ALA	54	5.910	7.601	-13.372	1.00	0.00
ATOM	845	O	ALA	54	5.728	8.512	-14.181	1.00	0.00
ATOM	846	N	ILE	55	4.928	6.774	-13.086	1.00	0.00
ATOM	847	H	ILE	55	5.149	5.964	-12.526	1.00	0.00
ATOM	848	CA	ILE	55	3.595	6.882	-13.640	1.00	0.00
ATOM	849	HA	ILE	55	3.587	6.974	-14.726	1.00	0.00
ATOM	850	CB	ILE	55	2.735	5.717	-13.230	1.00	0.00
ATOM	851	HB	ILE	55	2.892	5.548	-12.165	1.00	0.00
ATOM	852	CG2	ILE	55	1.249	5.949	-13.494	1.00	0.00
ATOM	853	HG21	ILE	55	1.090	6.118	-14.559	1.00	0.00
ATOM	854	HG22	ILE	55	0.682	5.074	-13.177	1.00	0.00
ATOM	855	HG23	ILE	55	0.912	6.822	-12.935	1.00	0.00
ATOM	856	CG1	ILE	55	3.284	4.505	-13.914	1.00	0.00
ATOM	857	HG12	ILE	55	3.082	4.595	-14.982	1.00	0.00
ATOM	858	HG13	ILE	55	4.361	4.478	-13.749	1.00	0.00
ATOM	859	CD1	ILE	55	2.680	3.268	-13.404	1.00	0.00

ATOM	860	HD11	ILE	55	1.603	3.294	-13.569	1.00	0.00
ATOM	861	HD12	ILE	55	3.106	2.413	-13.928	1.00	0.00
ATOM	862	HD13	ILE	55	2.881	3.178	-12.337	1.00	0.00
ATOM	863	C	ILE	55	3.016	8.263	-13.267	1.00	0.00
ATOM	864	O	ILE	55	2.405	8.922	-14.108	1.00	0.00
ATOM	865	N	CYX	56	3.230	8.600	-12.026	1.00	0.00
ATOM	866	H	CYX	56	3.574	7.884	-11.403	1.00	0.00
ATOM	867	CA	CYX	56	2.853	9.901	-11.453	1.00	0.00
ATOM	868	HA	CYX	56	1.872	10.204	-11.820	1.00	0.00
ATOM	869	CB	CYX	56	2.793	9.794	-9.927	1.00	0.00
ATOM	870	HB2	CYX	56	3.798	9.647	-9.533	1.00	0.00
ATOM	871	HB3	CYX	56	2.372	10.711	-9.514	1.00	0.00
ATOM	872	SG	CYX	56	1.544	8.571	-9.330	1.00	0.00
ATOM	873	C	CYX	56	3.639	11.080	-11.862	1.00	0.00
ATOM	874	O	CYX	56	3.324	12.184	-11.438	1.00	0.00
ATOM	875	N	ASN	57	4.776	10.853	-12.506	1.00	0.00
ATOM	876	H	ASN	57	5.055	9.895	-12.663	1.00	0.00
ATOM	877	CA	ASN	57	5.732	11.928	-12.854	1.00	0.00
ATOM	878	HA	ASN	57	6.598	11.528	-13.382	1.00	0.00
ATOM	879	CB	ASN	57	5.018	12.906	-13.767	1.00	0.00
ATOM	880	HB2	ASN	57	4.009	12.569	-14.007	1.00	0.00
ATOM	881	HB3	ASN	57	4.965	13.846	-13.218	1.00	0.00

ATOM	882	CG	ASN	57	5.740	13.133	-15.010	1.00	0.00
ATOM	883	OD1	ASN	57	6.499	12.272	-15.470	1.00	0.00
ATOM	884	ND2	ASN	57	5.470	14.266	-15.625	1.00	0.00
ATOM	885	HD21	ASN	57	5.935	14.489	-16.494	1.00	0.00
ATOM	886	HD22	ASN	57	4.799	14.907	-15.226	1.00	0.00
ATOM	887	C	ASN	57	6.354	12.522	-11.646	1.00	0.00
ATOM	888	O	ASN	57	6.635	13.753	-11.630	1.00	0.00
ATOM	889	N	LEU	58	6.594	11.738	-10.596	1.00	0.00
ATOM	890	H	LEU	58	6.341	10.764	-10.683	1.00	0.00
ATOM	891	CA	LEU	58	7.079	12.193	-9.357	1.00	0.00
ATOM	892	HA	LEU	58	7.152	13.280	-9.409	1.00	0.00
ATOM	893	CB	LEU	58	6.213	11.820	-8.161	1.00	0.00
ATOM	894	HB2	LEU	58	6.155	10.732	-8.184	1.00	0.00
ATOM	895	HB3	LEU	58	6.749	12.137	-7.267	1.00	0.00
ATOM	896	CG	LEU	58	4.837	12.389	-8.141	1.00	0.00
ATOM	897	HG	LEU	58	4.356	12.214	-9.104	1.00	0.00
ATOM	898	CD1	LEU	58	4.021	11.713	-7.031	1.00	0.00
ATOM	899	HD11	LEU	58	4.501	11.889	-6.068	1.00	0.00
ATOM	900	HD12	LEU	58	3.013	12.129	-7.016	1.00	0.00
ATOM	901	HD13	LEU	58	3.968	10.641	-7.220	1.00	0.00
ATOM	902	CD2	LEU	58	4.860	13.933	-7.907	1.00	0.00
ATOM	903	HD21	LEU	58	5.420	14.414	-8.709	1.00	0.00

ATOM	904	HD22	LEU	58	3.839	14.315	-7.898	1.00	0.00
ATOM	905	HD23	LEU	58	5.336	14.149	-6.951	1.00	0.00
ATOM	906	C	LEU	58	8.487	11.714	-9.150	1.00	0.00
ATOM	907	O	LEU	58	8.839	10.511	-9.244	1.00	0.00
ATOM	908	N	GLN	59	9.365	12.578	-8.737	1.00	0.00
ATOM	909	H	GLN	59	9.123	13.558	-8.686	1.00	0.00
ATOM	910	CA	GLN	59	10.701	12.172	-8.313	1.00	0.00
ATOM	911	HA	GLN	59	11.139	11.509	-9.059	1.00	0.00
ATOM	912	CB	GLN	59	11.618	13.409	-8.151	1.00	0.00
ATOM	913	HB2	GLN	59	11.168	14.068	-7.408	1.00	0.00
ATOM	914	HB3	GLN	59	12.588	13.066	-7.792	1.00	0.00
ATOM	915	CG	GLN	59	11.794	14.142	-9.412	1.00	0.00
ATOM	916	HG2	GLN	59	10.798	14.244	-9.844	1.00	0.00
ATOM	917	HG3	GLN	59	12.194	15.131	-9.187	1.00	0.00
ATOM	918	CD	GLN	59	12.701	13.471	-10.433	1.00	0.00
ATOM	919	OE1	GLN	59	12.910	12.259	-10.436	1.00	0.00
ATOM	920	NE2	GLN	59	13.275	14.285	-11.296	1.00	0.00
ATOM	921	HE21	GLN	59	13.891	13.913	-12.004	1.00	0.00
ATOM	922	HE22	GLN	59	13.096	15.278	-11.245	1.00	0.00
ATOM	923	C	GLN	59	10.615	11.485	-6.990	1.00	0.00
ATOM	924	O	GLN	59	9.784	11.810	-6.174	1.00	0.00
ATOM	925	N	PRO	60	11.419	10.452	-6.770	1.00	0.00

ATOM	926	CD PRO	60	11.433	9.731	-5.480	1.00	0.00
ATOM	927	HD2 PRO	60	10.451	9.297	-5.293	1.00	0.00
ATOM	928	HD3 PRO	60	11.683	10.424	-4.676	1.00	0.00
ATOM	929	CG PRO	60	12.497	8.686	-5.689	1.00	0.00
ATOM	930	HG2 PRO	60	12.040	7.756	-6.026	1.00	0.00
ATOM	931	HG3 PRO	60	13.031	8.511	-4.756	1.00	0.00
ATOM	932	CB PRO	60	13.402	9.249	-6.719	1.00	0.00
ATOM	933	HB2 PRO	60	13.711	8.303	-7.163	1.00	0.00
ATOM	934	HB3 PRO	60	14.281	9.863	-6.525	1.00	0.00
ATOM	935	CA PRO	60	12.453	9.982	-7.667	1.00	0.00
ATOM	936	HA PRO	60	12.858	10.760	-8.315	1.00	0.00
ATOM	937	C PRO	60	11.679	8.998	-8.493	1.00	0.00
ATOM	938	O PRO	60	10.663	8.469	-8.039	1.00	0.00
ATOM	939	N MET	61	12.090	8.684	-9.648	1.00	0.00
ATOM	940	H MET	61	12.997	8.854	-10.057	1.00	0.00
ATOM	941	CA MET	61	11.028	8.114	-10.508	1.00	0.00
ATOM	942	HA MET	61	10.039	8.481	-10.233	1.00	0.00
ATOM	943	CB MET	61	11.335	8.567	-11.892	1.00	0.00
ATOM	944	HB2 MET	61	12.373	8.327	-12.119	1.00	0.00
ATOM	945	HB3 MET	61	10.680	8.042	-12.588	1.00	0.00
ATOM	946	CG MET	61	11.121	10.066	-12.029	1.00	0.00
ATOM	947	HG2 MET	61	11.082	10.495	-11.028	1.00	0.00



ATOM	948	HG3 MET	61	11.972	10.481	-12.569	1.00	0.00
ATOM	949	SD MET	61	9.640	10.469	-12.888	1.00	0.00
ATOM	950	CE MET	61	9.791	9.818	-14.461	1.00	0.00
ATOM	951	HE1 MET	61	9.919	8.738	-14.397	1.00	0.00
ATOM	952	HE2 MET	61	8.892	10.043	-15.036	1.00	0.00
ATOM	953	HE3 MET	61	10.657	10.258	-14.955	1.00	0.00
ATOM	954	C MET	61	10.892	6.566	-10.360	1.00	0.00
ATOM	955	O MET	61	9.951	5.934	-10.848	1.00	0.00
ATOM	956	N ARG	62	11.765	6.009	-9.561	1.00	0.00
ATOM	957	H ARG	62	12.481	6.570	-9.122	1.00	0.00
ATOM	958	CA ARG	62	11.751	4.582	-9.300	1.00	0.00
ATOM	959	HA ARG	62	10.732	4.204	-9.384	1.00	0.00
ATOM	960	CB ARG	62	12.637	3.835	-10.311	1.00	0.00
ATOM	961	HB2 ARG	62	12.180	3.990	-11.289	1.00	0.00
ATOM	962	HB3 ARG	62	13.610	4.325	-10.284	1.00	0.00
ATOM	963	CG ARG	62	12.815	2.322	-10.060	1.00	0.00
ATOM	964	HG2 ARG	62	13.590	1.990	-10.751	1.00	0.00
ATOM	965	HG3 ARG	62	13.176	2.226	-9.036	1.00	0.00
ATOM	966	CD ARG	62	11.562	1.456	-10.243	1.00	0.00
ATOM	967	HD2 ARG	62	11.798	0.435	-9.943	1.00	0.00
ATOM	968	HD3 ARG	62	10.771	1.849	-9.604	1.00	0.00
ATOM	969	NE ARG	62	11.077	1.439	-11.640	1.00	0.00

ATOM	970	HE	ARG	62	11.167	2.323	-12.121	1.00	0.00
ATOM	971	CZ	ARG	62	10.537	0.401	-12.302	1.00	0.00
ATOM	972	NH1	ARG	62	10.351	-0.809	-11.742	1.00	0.00
ATOM	973	HH11	ARG	62	10.622	-0.965	-10.782	1.00	0.00
ATOM	974	HH12	ARG	62	9.940	-1.555	-12.285	1.00	0.00
ATOM	975	NH2	ARG	62	10.182	0.585	-13.582	1.00	0.00
ATOM	976	HH21	ARG	62	10.324	1.485	-14.018	1.00	0.00
ATOM	977	HH22	ARG	62	9.774	-0.177	-14.104	1.00	0.00
ATOM	978	C	ARG	62	12.257	4.389	-7.886	1.00	0.00
ATOM	979	O	ARG	62	13.038	5.202	-7.338	1.00	0.00
ATOM	980	N	CYX	63	11.732	3.366	-7.247	1.00	0.00
ATOM	981	H	CYX	63	11.039	2.801	-7.717	1.00	0.00
ATOM	982	CA	CYX	63	12.144	2.980	-5.943	1.00	0.00
ATOM	983	HA	CYX	63	12.741	3.770	-5.487	1.00	0.00
ATOM	984	CB	CYX	63	10.935	2.736	-5.086	1.00	0.00
ATOM	985	HB2	CYX	63	10.280	2.016	-5.577	1.00	0.00
ATOM	986	HB3	CYX	63	11.248	2.342	-4.120	1.00	0.00
ATOM	987	SG	CYX	63	10.004	4.286	-4.964	1.00	0.00
ATOM	988	C	CYX	63	12.912	1.645	-6.040	1.00	0.00
ATOM	989	O	CYX	63	12.339	0.624	-6.464	1.00	0.00
ATOM	990	N	PRO	64	14.178	1.645	-5.623	1.00	0.00
ATOM	991	CD	PRO	64	14.839	2.663	-4.777	1.00	0.00

ATOM	992	HD2 PRO	64	14.117	3.060	-4.062	1.00	0.00
ATOM	993	HD3 PRO	64	15.205	3.472	-5.409	1.00	0.00
ATOM	994	CG PRO	64	15.949	1.908	-4.115	1.00	0.00
ATOM	995	HG2 PRO	64	15.640	1.632	-3.107	1.00	0.00
ATOM	996	HG3 PRO	64	16.831	2.546	-4.063	1.00	0.00
ATOM	997	CB PRO	64	16.214	0.693	-4.960	1.00	0.00
ATOM	998	HB2 PRO	64	16.577	-0.134	-4.350	1.00	0.00
ATOM	999	HB3 PRO	64	16.939	0.912	-5.744	1.00	0.00
ATOM	1000	CA PRO	64	14.872	0.328	-5.581	1.00	0.00
ATOM	1001	HA PRO	64	14.940	-0.013	-6.614	1.00	0.00
ATOM	1002	C PRO	64	14.191	-0.769	-4.718	1.00	0.00
ATOM	1003	O PRO	64	14.083	-1.958	-5.123	1.00	0.00
ATOM	1004	N PHE	65	13.766	-0.373	-3.527	1.00	0.00
ATOM	1005	H PHE	65	13.776	0.613	-3.307	1.00	0.00
ATOM	1006	CA PHE	65	13.408	-1.309	-2.478	1.00	0.00
ATOM	1007	HA PHE	65	13.314	-0.786	-1.526	1.00	0.00
ATOM	1008	CB PHE	65	12.061	-1.976	-2.808	1.00	0.00
ATOM	1009	HB2 PHE	65	12.121	-2.513	-3.755	1.00	0.00
ATOM	1010	HB3 PHE	65	11.784	-2.669	-2.014	1.00	0.00
ATOM	1011	CG PHE	65	10.907	-0.982	-2.942	1.00	0.00
ATOM	1012	CD1 PHE	65	10.707	0.015	-1.978	1.00	0.00
ATOM	1013	HD1 PHE	65	11.397	0.082	-1.137	1.00	0.00

ATOM	1014	CE1	PHE	65	9.666	0.896	-2.080	1.00	0.00
ATOM	1015	HE1	PHE	65	9.516	1.678	-1.335	1.00	0.00
ATOM	1016	CZ	PHE	65	8.809	0.786	-3.133	1.00	0.00
ATOM	1017	HZ	PHE	65	7.968	1.476	-3.204	1.00	0.00
ATOM	1018	CE2	PHE	65	8.988	-0.158	-4.080	1.00	0.00
ATOM	1019	HE2	PHE	65	8.285	-0.225	-4.911	1.00	0.00
ATOM	1020	CD2	PHE	65	10.045	-1.030	-4.004	1.00	0.00
ATOM	1021	HD2	PHE	65	10.202	-1.766	-4.792	1.00	0.00
ATOM	1022	C	PHE	65	14.523	-2.354	-2.186	1.00	0.00
ATOM	1023	O	PHE	65	14.217	-3.447	-1.739	1.00	0.00
ATOM	1024	OXT	PHE	65	15.701	-2.081	-2.404	1.00	0.00
TER									
ATOM	1025	N	GLN	66	9.478	10.040	13.261	1.00	0.00
ATOM	1026	H1	GLN	66	8.501	10.224	13.079	1.00	0.00
ATOM	1027	H2	GLN	66	9.851	10.793	13.821	1.00	0.00
ATOM	1028	H3	GLN	66	9.576	9.084	13.570	1.00	0.00
ATOM	1029	CA	GLN	66	10.216	10.113	11.958	1.00	0.00
ATOM	1030	HA	GLN	66	10.970	10.898	12.018	1.00	0.00
ATOM	1031	CB	GLN	66	10.903	8.807	11.626	1.00	0.00
ATOM	1032	HB2	GLN	66	11.327	8.428	12.555	1.00	0.00
ATOM	1033	HB3	GLN	66	10.130	8.124	11.275	1.00	0.00
ATOM	1034	CG	GLN	66	11.990	8.915	10.584	1.00	0.00

ATOM	1035	HG2	GLN	66	12.160	9.976	10.399	1.00	0.00
ATOM	1036	HG3	GLN	66	12.904	8.462	10.966	1.00	0.00
ATOM	1037	CD	GLN	66	11.638	8.261	9.299	1.00	0.00
ATOM	1038	OE1	GLN	66	10.359	8.131	9.042	1.00	0.00
ATOM	1039	NE2	GLN	66	12.519	7.849	8.542	1.00	0.00
ATOM	1040	HE21	GLN	66	12.265	7.406	7.670	1.00	0.00
ATOM	1041	HE22	GLN	66	13.490	7.957	8.797	1.00	0.00
ATOM	1042	C	GLN	66	9.355	10.570	10.795	1.00	0.00
ATOM	1043	O	GLN	66	8.154	10.286	10.709	1.00	0.00
ATOM	1044	N	ARG	67	10.016	11.319	9.917	1.00	0.00
ATOM	1045	H	ARG	67	11.021	11.246	9.857	1.00	0.00
ATOM	1046	CA	ARG	67	9.349	12.271	9.068	1.00	0.00
ATOM	1047	HA	ARG	67	8.690	12.916	9.649	1.00	0.00
ATOM	1048	CB	ARG	67	10.428	13.152	8.383	1.00	0.00
ATOM	1049	HB2	ARG	67	11.033	13.560	9.192	1.00	0.00
ATOM	1050	HB3	ARG	67	11.032	12.469	7.786	1.00	0.00
ATOM	1051	CG	ARG	67	9.928	14.289	7.501	1.00	0.00
ATOM	1052	HG2	ARG	67	10.796	14.786	7.067	1.00	0.00
ATOM	1053	HG3	ARG	67	9.322	13.857	6.705	1.00	0.00
ATOM	1054	CD	ARG	67	9.096	15.306	8.278	1.00	0.00
ATOM	1055	HD2	ARG	67	8.771	14.846	9.211	1.00	0.00
ATOM	1056	HD3	ARG	67	9.724	16.169	8.499	1.00	0.00

ATOM	1057	NE	ARG	67	7.906	15.765	7.538	1.00	0.00
ATOM	1058	HE	ARG	67	8.005	15.802	6.533	1.00	0.00
ATOM	1059	CZ	ARG	67	6.733	16.134	8.080	1.00	0.00
ATOM	1060	NH1	ARG	67	6.526	16.097	9.402	1.00	0.00
ATOM	1061	HH11	ARG	67	7.264	15.786	10.017	1.00	0.00
ATOM	1062	HH12	ARG	67	5.632	16.381	9.778	1.00	0.00
ATOM	1063	NH2	ARG	67	5.739	16.544	7.286	1.00	0.00
ATOM	1064	HH21	ARG	67	5.875	16.574	6.285	1.00	0.00
ATOM	1065	HH22	ARG	67	4.856	16.822	7.690	1.00	0.00
ATOM	1066	C	ARG	67	8.487	11.485	8.037	1.00	0.00
ATOM	1067	O	ARG	67	7.290	11.745	7.865	1.00	0.00
ATOM	1068	N	CYX	68	9.142	10.519	7.430	1.00	0.00
ATOM	1069	H	CYX	68	10.102	10.313	7.667	1.00	0.00
ATOM	1070	CA	CYX	68	8.493	9.724	6.334	1.00	0.00
ATOM	1071	HA	CYX	68	8.129	10.393	5.553	1.00	0.00
ATOM	1072	CB	CYX	68	9.471	8.790	5.738	1.00	0.00
ATOM	1073	HB2	CYX	68	9.885	8.151	6.517	1.00	0.00
ATOM	1074	HB3	CYX	68	8.975	8.173	4.989	1.00	0.00
ATOM	1075	SG	CYX	68	10.840	9.728	4.969	1.00	0.00
ATOM	1076	C	CYX	68	7.317	8.982	6.892	1.00	0.00
ATOM	1077	O	CYX	68	6.224	8.969	6.298	1.00	0.00
ATOM	1078	N	ARG	69	7.449	8.440	8.113	1.00	0.00

ATOM	1079	H	ARG	69	8.303	8.447	8.652	1.00	0.00
ATOM	1080	CA	ARG	69	6.274	7.709	8.661	1.00	0.00
ATOM	1081	HA	ARG	69	5.904	7.006	7.914	1.00	0.00
ATOM	1082	CB	ARG	69	6.649	6.922	9.938	1.00	0.00
ATOM	1083	HB2	ARG	69	7.036	7.616	10.684	1.00	0.00
ATOM	1084	HB3	ARG	69	5.758	6.430	10.328	1.00	0.00
ATOM	1085	CG	ARG	69	7.694	5.891	9.624	1.00	0.00
ATOM	1086	HG2	ARG	69	7.372	5.350	8.734	1.00	0.00
ATOM	1087	HG3	ARG	69	8.626	6.414	9.413	1.00	0.00
ATOM	1088	CD	ARG	69	7.909	4.917	10.754	1.00	0.00
ATOM	1089	HD2	ARG	69	6.980	4.391	10.976	1.00	0.00
ATOM	1090	HD3	ARG	69	8.679	4.195	10.484	1.00	0.00
ATOM	1091	NE	ARG	69	8.341	5.637	11.957	1.00	0.00
ATOM	1092	HE	ARG	69	7.599	5.965	12.559	1.00	0.00
ATOM	1093	CZ	ARG	69	9.607	5.878	12.314	1.00	0.00
ATOM	1094	NH1	ARG	69	10.646	5.465	11.577	1.00	0.00
ATOM	1095	HH11	ARG	69	10.482	4.954	10.721	1.00	0.00
ATOM	1096	HH12	ARG	69	11.588	5.667	11.880	1.00	0.00
ATOM	1097	NH2	ARG	69	9.822	6.562	13.438	1.00	0.00
ATOM	1098	HH21	ARG	69	9.038	6.880	13.989	1.00	0.00
ATOM	1099	HH22	ARG	69	10.767	6.759	13.732	1.00	0.00
ATOM	1100	C	ARG	69	5.157	8.603	8.931	1.00	0.00

ATOM	1101	O	ARG	69	4.003	8.289	8.702	1.00	0.00
ATOM	1102	N	HIE	70	5.460	9.782	9.446	1.00	0.00
ATOM	1103	H	HIE	70	6.410	10.038	9.675	1.00	0.00
ATOM	1104	CA	HIE	70	4.444	10.711	9.697	1.00	0.00
ATOM	1105	HA	HIE	70	3.681	10.258	10.331	1.00	0.00
ATOM	1106	CB	HIE	70	5.001	11.950	10.410	1.00	0.00
ATOM	1107	HB2	HIE	70	5.473	11.713	11.363	1.00	0.00
ATOM	1108	HB3	HIE	70	5.727	12.429	9.754	1.00	0.00
ATOM	1109	CG	HIE	70	3.943	12.974	10.699	1.00	0.00
ATOM	1110	ND1	HIE	70	2.815	12.690	11.449	1.00	0.00
ATOM	1111	CE1	HIE	70	2.051	13.767	11.512	1.00	0.00
ATOM	1112	HE1	HIE	70	1.112	13.750	12.065	1.00	0.00
ATOM	1113	NE2	HIE	70	2.637	14.736	10.826	1.00	0.00
ATOM	1114	HE2	HIE	70	2.281	15.674	10.703	1.00	0.00
ATOM	1115	CD2	HIE	70	3.816	14.265	10.301	1.00	0.00
ATOM	1116	HD2	HIE	70	4.440	14.919	9.692	1.00	0.00
ATOM	1117	C	HIE	70	3.762	11.178	8.398	1.00	0.00
ATOM	1118	O	HIE	70	2.574	11.308	8.368	1.00	0.00
ATOM	1119	N	GLN	71	4.528	11.383	7.356	1.00	0.00
ATOM	1120	H	GLN	71	5.529	11.252	7.374	1.00	0.00
ATOM	1121	CA	GLN	71	3.910	11.838	6.110	1.00	0.00
ATOM	1122	HA	GLN	71	3.298	12.726	6.271	1.00	0.00



ATOM	1123	CB	GLN	71	5.015	12.184	5.167	1.00	0.00
ATOM	1124	HB2	GLN	71	5.767	11.396	5.205	1.00	0.00
ATOM	1125	HB3	GLN	71	4.607	12.248	4.158	1.00	0.00
ATOM	1126	CG	GLN	71	5.656	13.516	5.541	1.00	0.00
ATOM	1127	HG2	GLN	71	4.858	14.257	5.604	1.00	0.00
ATOM	1128	HG3	GLN	71	6.231	13.523	6.466	1.00	0.00
ATOM	1129	CD	GLN	71	6.540	13.877	4.440	1.00	0.00
ATOM	1130	OE1	GLN	71	6.053	14.082	3.364	1.00	0.00
ATOM	1131	NE2	GLN	71	7.812	13.865	4.647	1.00	0.00
ATOM	1132	HE21	GLN	71	8.444	14.112	3.899	1.00	0.00
ATOM	1133	HE22	GLN	71	8.170	13.610	5.556	1.00	0.00
ATOM	1134	C	GLN	71	3.001	10.757	5.478	1.00	0.00
ATOM	1135	O	GLN	71	1.929	11.058	4.976	1.00	0.00
ATOM	1136	N	PHE	72	3.417	9.513	5.597	1.00	0.00
ATOM	1137	H	PHE	72	4.334	9.323	5.974	1.00	0.00
ATOM	1138	CA	PHE	72	2.603	8.386	5.158	1.00	0.00
ATOM	1139	HA	PHE	72	2.390	8.458	4.091	1.00	0.00
ATOM	1140	CB	PHE	72	3.383	7.076	5.419	1.00	0.00
ATOM	1141	HB2	PHE	72	4.270	6.982	4.793	1.00	0.00
ATOM	1142	HB3	PHE	72	3.675	7.057	6.469	1.00	0.00
ATOM	1143	CG	PHE	72	2.562	5.854	5.182	1.00	0.00
ATOM	1144	CD1	PHE	72	2.300	5.428	3.862	1.00	0.00

ATOM	1145	HD1 PHE	72	2.715	5.982	3.020	1.00	0.00
ATOM	1146	CE1 PHE	72	1.517	4.310	3.636	1.00	0.00
ATOM	1147	HE1 PHE	72	1.279	4.034	2.608	1.00	0.00
ATOM	1148	CZ PHE	72	1.038	3.548	4.684	1.00	0.00
ATOM	1149	HZ PHE	72	0.463	2.641	4.499	1.00	0.00
ATOM	1150	CE2 PHE	72	1.304	3.962	6.018	1.00	0.00
ATOM	1151	HE2 PHE	72	0.893	3.404	6.859	1.00	0.00
ATOM	1152	CD2 PHE	72	2.089	5.080	6.246	1.00	0.00
ATOM	1153	HD2 PHE	72	2.346	5.367	7.265	1.00	0.00
ATOM	1154	C PHE	72	1.249	8.335	5.865	1.00	0.00
ATOM	1155	O PHE	72	0.208	8.322	5.265	1.00	0.00
ATOM	1156	N GLN	73	1.290	8.478	7.209	1.00	0.00
ATOM	1157	H GLN	73	2.102	7.978	7.540	1.00	0.00
ATOM	1158	CA GLN	73	0.088	8.452	8.019	1.00	0.00
ATOM	1159	HA GLN	73	0.556	8.663	8.980	1.00	0.00
ATOM	1160	CB GLN	73	1.179	8.353	6.957	1.00	0.00
ATOM	1161	HB2 GLN	73	1.863	7.544	7.213	1.00	0.00
ATOM	1162	HB3 GLN	73	0.725	8.151	5.987	1.00	0.00
ATOM	1163	CG GLN	73	1.948	9.668	6.894	1.00	0.00
ATOM	1164	HG2 GLN	73	1.265	10.477	6.638	1.00	0.00
ATOM	1165	HG3 GLN	73	2.403	9.870	7.864	1.00	0.00
ATOM	1166	CD GLN	73	3.048	9.609	5.844	1.00	0.00

ATOM	1167	OE1	GLN	73	3.222	8.591	5.179	1.00	0.00
ATOM	1168	NE2	GLN	73	3.793	10.708	5.697	1.00	0.00
ATOM	1169	HE21	GLN	73	4.537	10.722	5.013	1.00	0.00
ATOM	1170	HE22	GLN	73	3.609	11.519	6.269	1.00	0.00
ATOM	1171	C	GLN	73	-0.825	9.635	7.646	1.00	0.00
ATOM	1172	O	GLN	73	-2.047	9.512	7.454	1.00	0.00
ATOM	1173	N	THR	74	-0.205	10.809	7.487	1.00	0.00
ATOM	1174	H	THR	74	0.790	10.882	7.640	1.00	0.00
ATOM	1175	CA	THR	74	-0.930	12.000	7.154	1.00	0.00
ATOM	1176	HA	THR	74	-1.798	12.152	7.795	1.00	0.00
ATOM	1177	CB	THR	74	-0.021	13.236	7.256	1.00	0.00
ATOM	1178	HB	THR	74	0.829	13.112	6.586	1.00	0.00
ATOM	1179	CG2	THR	74	-0.792	14.484	6.867	1.00	0.00
ATOM	1180	HG21	THR	74	-1.643	14.610	7.537	1.00	0.00
ATOM	1181	HG22	THR	74	-0.139	15.354	6.942	1.00	0.00
ATOM	1182	HG23	THR	74	-1.149	14.387	5.841	1.00	0.00
ATOM	1183	OG1	THR	74	0.508	13.324	8.580	1.00	0.00
ATOM	1184	HG1	THR	74	1.076	14.095	8.647	1.00	0.00
ATOM	1185	C	THR	74	-1.563	11.993	5.771	1.00	0.00
ATOM	1186	O	THR	74	-2.711	12.482	5.579	1.00	0.00
ATOM	1187	N	GLN	75	-0.880	11.348	4.804	1.00	0.00
ATOM	1188	H	GLN	75	0.073	11.040	4.929	1.00	0.00

ATOM	1189	CA	GLN	75	-1.483	11.233	3.458	1.00	0.00
ATOM	1190	HA	GLN	75	-2.242	12.003	3.317	1.00	0.00
ATOM	1191	CB	GLN	75	-0.399	11.414	2.394	1.00	0.00
ATOM	1192	HB2	GLN	75	0.321	10.609	2.536	1.00	0.00
ATOM	1193	HB3	GLN	75	-0.885	11.300	1.425	1.00	0.00
ATOM	1194	CG	GLN	75	0.312	12.736	2.445	1.00	0.00
ATOM	1195	HG2	GLN	75	0.886	12.770	3.371	1.00	0.00
ATOM	1196	HG3	GLN	75	0.989	12.816	1.594	1.00	0.00
ATOM	1197	CD	GLN	75	-0.648	13.931	2.420	1.00	0.00
ATOM	1198	OE1	GLN	75	-1.670	13.903	1.746	1.00	0.00
ATOM	1199	NE2	GLN	75	-0.302	14.944	3.122	1.00	0.00
ATOM	1200	HE21	GLN	75	-0.893	15.763	3.147	1.00	0.00
ATOM	1201	HE22	GLN	75	0.560	14.920	3.648	1.00	0.00
ATOM	1202	C	GLN	75	-2.307	9.940	3.281	1.00	0.00
ATOM	1203	O	GLN	75	-2.267	9.204	2.255	1.00	0.00
ATOM	1204	N	GLN	76	-3.140	9.666	4.276	1.00	0.00
ATOM	1205	H	GLN	76	-3.000	10.103	5.176	1.00	0.00
ATOM	1206	CA	GLN	76	-4.172	8.658	4.155	1.00	0.00
ATOM	1207	HA	GLN	76	-4.706	8.583	5.102	1.00	0.00
ATOM	1208	CB	GLN	76	-5.185	8.993	3.045	1.00	0.00
ATOM	1209	HB2	GLN	76	-4.850	8.413	2.185	1.00	0.00
ATOM	1210	HB3	GLN	76	-6.131	8.591	3.408	1.00	0.00

ATOM	1211	CG	GLN	76	-5.379	10.463	2.627	1.00	0.00
ATOM	1212	HG2	GLN	76	-4.444	10.827	2.202	1.00	0.00
ATOM	1213	HG3	GLN	76	-6.157	10.485	1.863	1.00	0.00
ATOM	1214	CD	GLN	76	-5.786	11.381	3.757	1.00	0.00
ATOM	1215	OE1	GLN	76	-5.167	12.425	3.987	1.00	0.00
ATOM	1216	NE2	GLN	76	-6.844	11.004	4.465	1.00	0.00
ATOM	1217	HE21	GLN	76	-7.164	11.577	5.233	1.00	0.00
ATOM	1218	HE22	GLN	76	-7.324	10.147	4.232	1.00	0.00
ATOM	1219	C	GLN	76	-3.529	7.289	3.974	1.00	0.00
ATOM	1220	O	GLN	76	-4.116	6.403	3.349	1.00	0.00
ATOM	1221	N	ARG	77	-2.333	7.086	4.516	1.00	0.00
ATOM	1222	H	ARG	77	-3.090	7.159	5.181	1.00	0.00
ATOM	1223	CA	ARG	77	-1.644	5.817	4.396	1.00	0.00
ATOM	1224	HA	ARG	77	-2.571	6.385	4.481	1.00	0.00
ATOM	1225	CB	ARG	77	-0.483	6.716	4.809	1.00	0.00
ATOM	1226	HB2	ARG	77	-0.620	7.037	5.842	1.00	0.00
ATOM	1227	HB3	ARG	77	0.453	6.165	4.721	1.00	0.00
ATOM	1228	CG	ARG	77	-0.440	7.940	3.899	1.00	0.00
ATOM	1229	HG2	ARG	77	-0.302	7.620	2.866	1.00	0.00
ATOM	1230	HG3	ARG	77	-1.375	8.492	3.987	1.00	0.00
ATOM	1231	CD	ARG	77	0.721	8.839	4.312	1.00	0.00
ATOM	1232	HD2	ARG	77	0.584	9.159	5.345	1.00	0.00

ATOM	1233	HD3	ARG	77	1.657	8.287	4.224	1.00	0.00
ATOM	1234	NE	ARG	77	0.795	10.039	3.449	1.00	0.00
ATOM	1235	HE	ARG	77	0.112	10.146	2.712	1.00	0.00
ATOM	1236	CZ	ARG	77	1.719	10.984	3.600	1.00	0.00
ATOM	1237	NH1	ARG	77	2.651	10.914	4.546	1.00	0.00
ATOM	1238	HH11	ARG	77	2.668	10.124	5.176	1.00	0.00
ATOM	1239	HH12	ARG	77	3.337	11.650	4.631	1.00	0.00
ATOM	1240	NH2	ARG	77	1.693	12.021	2.768	1.00	0.00
ATOM	1241	HH21	ARG	77	0.984	12.071	2.050	1.00	0.00
ATOM	1242	HH22	ARG	77	2.382	12.754	2.858	1.00	0.00
ATOM	1243	C	ARG	77	-1.440	5.435	2.944	1.00	0.00
ATOM	1244	O	ARG	77	-1.358	4.262	2.602	1.00	0.00
ATOM	1245	N	LEU	78	-1.375	6.452	2.088	1.00	0.00
ATOM	1246	H	LEU	78	-1.420	7.408	2.411	1.00	0.00
ATOM	1247	CA	LEU	78	-1.375	6.195	0.578	1.00	0.00
ATOM	1248	HA	LEU	78	-1.705	7.092	0.053	1.00	0.00
ATOM	1249	CB	LEU	78	0.018	5.835	0.095	1.00	0.00
ATOM	1250	HB2	LEU	78	0.181	4.891	0.614	1.00	0.00
ATOM	1251	HB3	LEU	78	-0.026	5.655	-0.979	1.00	0.00
ATOM	1252	CG	LEU	78	1.165	6.789	0.403	1.00	0.00
ATOM	1253	HG	LEU	78	1.274	6.874	1.484	1.00	0.00
ATOM	1254	CD1	LEU	78	2.453	6.278	-0.194	1.00	0.00

ATOM	1255	HD11	LEU	78	2.344	6.193	-1.275	1.00	0.00
ATOM	1256	HD12	LEU	78	3.261	6.972	0.036	1.00	0.00
ATOM	1257	HD13	LEU	78	2.685	5.299	0.225	1.00	0.00
ATOM	1258	CD2	LEU	78	0.799	8.222	-0.086	1.00	0.00
ATOM	1259	HD21	LEU	78	-0.102	8.562	0.425	1.00	0.00
ATOM	1260	HD22	LEU	78	1.621	8.903	0.135	1.00	0.00
ATOM	1261	HD23	LEU	78	0.621	8.206	-1.162	1.00	0.00
ATOM	1262	C	LEU	78	-2.411	5.160	0.203	1.00	0.00
ATOM	1263	O	LEU	78	-2.195	4.244	-0.651	1.00	0.00
ATOM	1264	N	ARG	79	-3.614	5.288	0.796	1.00	0.00
ATOM	1265	H	ARG	79	-3.807	6.060	1.419	1.00	0.00
ATOM	1266	CA	ARG	79	-4.656	4.290	0.589	1.00	0.00
ATOM	1267	HA	ARG	79	-4.327	3.318	0.956	1.00	0.00
ATOM	1268	CB	ARG	79	-5.911	4.698	1.351	1.00	0.00
ATOM	1269	HB2	ARG	79	-5.583	5.108	2.306	1.00	0.00
ATOM	1270	HB3	ARG	79	-6.396	5.481	0.767	1.00	0.00
ATOM	1271	CG	ARG	79	-6.886	3.579	1.595	1.00	0.00
ATOM	1272	HG2	ARG	79	-7.325	3.262	0.649	1.00	0.00
ATOM	1273	HG3	ARG	79	-6.371	2.737	2.056	1.00	0.00
ATOM	1274	CD	ARG	79	-8.000	4.077	2.537	1.00	0.00
ATOM	1275	HD2	ARG	79	-8.712	4.684	1.977	1.00	0.00
ATOM	1276	HD3	ARG	79	-8.518	3.225	2.977	1.00	0.00

ATOM	1277	NE	ARG	79	-7.429	4.900	3.627	1.00	0.00
ATOM	1278	HE	ARG	79	-6.573	4.540	4.024	1.00	0.00
ATOM	1279	CZ	ARG	79	-7.931	6.045	4.118	1.00	0.00
ATOM	1280	NH1	ARG	79	-9.071	6.571	3.655	1.00	0.00
ATOM	1281	HH11	ARG	79	-9.577	6.103	2.916	1.00	0.00
ATOM	1282	HH12	ARG	79	-9.421	7.434	4.046	1.00	0.00
ATOM	1283	NH2	ARG	79	-7.279	6.682	5.097	1.00	0.00
ATOM	1284	HH21	ARG	79	-6.418	6.299	5.458	1.00	0.00
ATOM	1285	HH22	ARG	79	-7.652	7.544	5.470	1.00	0.00
ATOM	1286	C	ARG	79	-5.018	4.075	-0.881	1.00	0.00
ATOM	1287	O	ARG	79	-5.174	2.991	-1.316	1.00	0.00
ATOM	1288	N	ALA	80	-4.996	5.119	-1.697	1.00	0.00
ATOM	1289	H	ALA	80	-4.859	6.071	-1.390	1.00	0.00
ATOM	1290	CA	ALA	80	-5.239	4.880	-3.108	1.00	0.00
ATOM	1291	HA	ALA	80	-6.128	4.253	-3.184	1.00	0.00
ATOM	1292	CB	ALA	80	-5.505	6.193	-3.839	1.00	0.00
ATOM	1293	HB1	ALA	80	-4.621	6.828	-3.780	1.00	0.00
ATOM	1294	HB2	ALA	80	-5.735	5.988	-4.885	1.00	0.00
ATOM	1295	HB3	ALA	80	-6.350	6.703	-3.376	1.00	0.00
ATOM	1296	C	ALA	80	-4.101	4.163	-3.787	1.00	0.00
ATOM	1297	O	ALA	80	-4.378	3.340	-4.696	1.00	0.00
ATOM	1298	N	CYX	81	-2.856	4.368	-3.390	1.00	0.00



ATOM	1299	H	CYX	81	-2.664	5.046	-2.666	1.00	0.00
ATOM	1300	CA	CYX	81	-1.742	3.643	-3.965	1.00	0.00
ATOM	1301	HA	CYX	81	-1.814	3.731	-5.049	1.00	0.00
ATOM	1302	CB	CYX	81	-0.407	4.122	-3.539	1.00	0.00
ATOM	1303	HB2	CYX	81	-0.299	3.988	-2.463	1.00	0.00
ATOM	1304	HB3	CYX	81	0.365	3.553	-4.056	1.00	0.00
ATOM	1305	SG	CYX	81	-0.263	5.951	-3.957	1.00	0.00
ATOM	1306	C	CYX	81	-1.834	2.164	-3.560	1.00	0.00
ATOM	1307	O	CYX	81	-1.532	1.280	-4.286	1.00	0.00
ATOM	1308	N	GLN	82	-2.322	1.965	-2.315	1.00	0.00
ATOM	1309	H	GLN	82	-2.539	2.707	-1.665	1.00	0.00
ATOM	1310	CA	GLN	82	-2.509	0.578	-1.876	1.00	0.00
ATOM	1311	HA	GLN	82	-1.556	0.053	-1.937	1.00	0.00
ATOM	1312	CB	GLN	82	-3.019	0.501	-0.433	1.00	0.00
ATOM	1313	HB2	GLN	82	-3.939	1.085	-0.403	1.00	0.00
ATOM	1314	HB3	GLN	82	-3.249	-0.548	-0.246	1.00	0.00
ATOM	1315	CG	GLN	82	-2.077	1.000	0.616	1.00	0.00
ATOM	1316	HG2	GLN	82	-1.157	0.417	0.601	1.00	0.00
ATOM	1317	HG3	GLN	82	-1.841	2.055	0.471	1.00	0.00
ATOM	1318	CD	GLN	82	-2.738	0.832	1.978	1.00	0.00
ATOM	1319	OE1	GLN	82	-3.350	-0.195	2.226	1.00	0.00
ATOM	1320	NE2	GLN	82	-2.631	1.830	2.840	1.00	0.00

ATOM	1321	HE21	GLN	82	-3.057	1.753	3.752	1.00	0.00
ATOM	1322	HE22	GLN	82	-2.124	2.665	2.581	1.00	0.00
ATOM	1323	C	GLN	82	-3.479	-0.113	-2.789	1.00	0.00
ATOM	1324	O	GLN	82	-3.183	-1.252	-3.159	1.00	0.00
ATOM	1325	N	ARG	83	-4.548	0.547	-3.196	1.00	0.00
ATOM	1326	H	ARG	83	-4.723	1.430	-2.737	1.00	0.00
ATOM	1327	CA	ARG	83	-5.528	0.058	-4.129	1.00	0.00
ATOM	1328	HA	ARG	83	-5.867	-0.925	-3.804	1.00	0.00
ATOM	1329	CB	ARG	83	-6.719	0.966	-4.229	1.00	0.00
ATOM	1330	HB2	ARG	83	-6.281	1.944	-4.432	1.00	0.00
ATOM	1331	HB3	ARG	83	-7.240	0.611	-5.119	1.00	0.00
ATOM	1332	CG	ARG	83	-7.708	1.082	-3.074	1.00	0.00
ATOM	1333	HG2	ARG	83	-8.050	0.082	-2.808	1.00	0.00
ATOM	1334	HG3	ARG	83	-7.196	1.530	-2.222	1.00	0.00
ATOM	1335	CD	ARG	83	-8.920	1.953	-3.460	1.00	0.00
ATOM	1336	HD2	ARG	83	-8.663	2.573	-4.319	1.00	0.00
ATOM	1337	HD3	ARG	83	-9.763	1.311	-3.716	1.00	0.00
ATOM	1338	NE	ARG	83	-9.317	2.832	-2.345	1.00	0.00
ATOM	1339	HE	ARG	83	-9.124	3.817	-2.462	1.00	0.00
ATOM	1340	CZ	ARG	83	-9.916	2.428	-1.217	1.00	0.00
ATOM	1341	NH1	ARG	83	-10.213	1.143	-1.012	1.00	0.00
ATOM	1342	HH11	ARG	83	-9.985	0.457	-1.717	1.00	0.00

ATOM	1343	HH12	ARG	83	-10.665	0.863	-0.153	1.00	0.00
ATOM	1344	NH2	ARG	83	-10.214	3.318	-0.266	1.00	0.00
ATOM	1345	HH21	ARG	83	-9.987	4.293	-0.402	1.00	0.00
ATOM	1346	HH22	ARG	83	-10.666	3.012	0.584	1.00	0.00
ATOM	1347	C	ARG	83	-4.916	-0.230	-5.533	1.00	0.00
ATOM	1348	O	ARG	83	-5.107	-1.303	-6.110	1.00	0.00
ATOM	1349	N	VAL	84	-4.079	0.695	-5.988	1.00	0.00
ATOM	1350	H	VAL	84	-4.043	1.609	-5.559	1.00	0.00
ATOM	1351	CA	VAL	84	-3.332	0.480	-7.214	1.00	0.00
ATOM	1352	HA	VAL	84	-4.007	0.213	-8.028	1.00	0.00
ATOM	1353	CB	VAL	84	-2.534	1.727	-7.627	1.00	0.00
ATOM	1354	HB	VAL	84	-1.928	2.027	-6.773	1.00	0.00
ATOM	1355	CG1	VAL	84	-1.622	1.492	-8.847	1.00	0.00
ATOM	1356	HG11	VAL	84	-2.228	1.193	-9.702	1.00	0.00
ATOM	1357	HG12	VAL	84	-1.088	2.412	-9.085	1.00	0.00
ATOM	1358	HG13	VAL	84	-0.904	0.705	-8.618	1.00	0.00
ATOM	1359	CG2	VAL	84	-3.549	2.822	-7.932	1.00	0.00
ATOM	1360	HG21	VAL	84	-4.146	3.023	-7.042	1.00	0.00
ATOM	1361	HG22	VAL	84	-3.026	3.731	-8.231	1.00	0.00
ATOM	1362	HG23	VAL	84	-4.203	2.497	-8.742	1.00	0.00
ATOM	1363	C	VAL	84	-2.492	-0.757	-7.149	1.00	0.00
ATOM	1364	O	VAL	84	-2.372	-1.568	-8.097	1.00	0.00

ATOM	1365	N	ILE	85	-1.707	-0.885	-6.081	1.00	0.00
ATOM	1366	H	ILE	85	-1.792	-0.230	-5.316	1.00	0.00
ATOM	1367	CA	ILE	85	-0.754	-1.960	-5.959	1.00	0.00
ATOM	1368	HA	ILE	85	-0.047	-1.993	-6.788	1.00	0.00
ATOM	1369	CB	ILE	85	0.017	-1.796	-4.632	1.00	0.00
ATOM	1370	HB	ILE	85	-0.688	-1.483	-3.862	1.00	0.00
ATOM	1371	CG2	ILE	85	0.687	-3.087	-4.209	1.00	0.00
ATOM	1372	HG21	ILE	85	1.392	-3.400	-4.979	1.00	0.00
ATOM	1373	HG22	ILE	85	1.219	-2.930	-3.271	1.00	0.00
ATOM	1374	HG23	ILE	85	-0.068	-3.861	-4.073	1.00	0.00
ATOM	1375	CG1	ILE	85	1.016	-0.702	-4.731	1.00	0.00
ATOM	1376	HG12	ILE	85	1.920	-1.118	-5.175	1.00	0.00
ATOM	1377	HG13	ILE	85	0.606	0.063	-5.391	1.00	0.00
ATOM	1378	CD1	ILE	85	1.347	-0.090	-3.403	1.00	0.00
ATOM	1379	HD11	ILE	85	1.757	-0.854	-2.743	1.00	0.00
ATOM	1380	HD12	ILE	85	2.082	0.703	-3.541	1.00	0.00
ATOM	1381	HD13	ILE	85	0.443	0.327	-2.959	1.00	0.00
ATOM	1382	C	ILE	85	-1.608	-3.276	-5.930	1.00	0.00
ATOM	1383	O	ILE	85	-1.195	-4.226	-6.581	1.00	0.00
ATOM	1384	N	GLN	86	-2.709	-3.311	-5.234	1.00	0.00
ATOM	1385	H	GLN	86	-2.983	-2.524	-4.663	1.00	0.00
ATOM	1386	CA	GLN	86	-3.567	-4.546	-5.205	1.00	0.00

ATOM	1387	HA	GLN	86	-2.969	-5.418	-4.942	1.00	0.00
ATOM	1388	CB	GLN	86	-4.639	-4.378	-4.182	1.00	0.00
ATOM	1389	HB2	GLN	86	-5.116	-3.409	-4.335	1.00	0.00
ATOM	1390	HB3	GLN	86	-5.376	-5.170	-4.318	1.00	0.00
ATOM	1391	CG	GLN	86	-4.067	-4.449	-2.756	1.00	0.00
ATOM	1392	HG2	GLN	86	-3.337	-5.239	-2.584	1.00	0.00
ATOM	1393	HG3	GLN	86	-3.601	-3.479	-2.583	1.00	0.00
ATOM	1394	CD	GLN	86	-5.213	-4.621	-1.767	1.00	0.00
ATOM	1395	OE1	GLN	86	-5.757	-3.641	-1.197	1.00	0.00
ATOM	1396	NE2	GLN	86	-5.673	-5.857	-1.651	1.00	0.00
ATOM	1397	HE21	GLN	86	-6.433	-6.052	-1.015	1.00	0.00
ATOM	1398	HE22	GLN	86	-5.262	-6.599	-2.199	1.00	0.00
ATOM	1399	C	GLN	86	-4.162	-4.832	-6.600	1.00	0.00
ATOM	1400	O	GLN	86	-4.147	-5.949	-7.047	1.00	0.00
ATOM	1401	N	ARG	87	-4.605	-3.777	-7.263	1.00	0.00
ATOM	1402	H	ARG	87	-4.524	-2.861	-6.844	1.00	0.00
ATOM	1403	CA	ARG	87	-5.228	-3.884	-8.641	1.00	0.00
ATOM	1404	HA	ARG	87	-6.194	-4.388	-8.602	1.00	0.00
ATOM	1405	CB	ARG	87	-5.439	-2.474	-9.152	1.00	0.00
ATOM	1406	HB2	ARG	87	-6.269	-2.028	-8.604	1.00	0.00
ATOM	1407	HB3	ARG	87	-4.532	-1.899	-8.967	1.00	0.00
ATOM	1408	CG	ARG	87	-5.753	-2.462	-10.649	1.00	0.00

ATOM	1409	HG2 ARG	87	-4.950	-2.942	-11.208	1.00	0.00
ATOM	1410	HG3 ARG	87	-6.691	-2.982	-10.843	1.00	0.00
ATOM	1411	CD ARG	87	-5.877	-1.034	-11.082	1.00	0.00
ATOM	1412	HD2 ARG	87	-5.061	-0.443	-10.666	1.00	0.00
ATOM	1413	HD3 ARG	87	-5.855	-0.968	-12.170	1.00	0.00
ATOM	1414	NE ARG	87	-7.132	-0.487	-10.610	1.00	0.00
ATOM	1415	HE ARG	87	-7.817	-1.116	-10.217	1.00	0.00
ATOM	1416	CZ ARG	87	-7.395	0.836	-10.603	1.00	0.00
ATOM	1417	NH1 ARG	87	-6.515	1.716	-11.062	1.00	0.00
ATOM	1418	HH11 ARG	87	-5.629	1.397	-11.426	1.00	0.00
ATOM	1419	HH12 ARG	87	-6.736	2.702	-11.046	1.00	0.00
ATOM	1420	NH2 ARG	87	-8.626	1.264	-10.186	1.00	0.00
ATOM	1421	HH21 ARG	87	-9.318	0.591	-9.891	1.00	0.00
ATOM	1422	HH22 ARG	87	-8.837	2.252	-10.176	1.00	0.00
ATOM	1423	C ARG	87	-4.314	-4.635	-9.582	1.00	0.00
ATOM	1424	O ARG	87	-4.752	-5.528	-10.271	1.00	0.00
ATOM	1425	N TRP	88	-3.010	-4.342	-9.598	1.00	0.00
ATOM	1426	H TRP	88	-2.709	-3.599	-8.984	1.00	0.00
ATOM	1427	CA TRP	88	-2.032	-4.924	-10.513	1.00	0.00
ATOM	1428	HA TRP	88	-2.532	-5.315	-11.399	1.00	0.00
ATOM	1429	CB TRP	88	-1.050	-3.869	-10.942	1.00	0.00
ATOM	1430	HB2 TRP	88	-0.765	-3.330	-10.039	1.00	0.00

ATOM	1431	HB3 TRP	88	-0.153	-4.196	-11.468	1.00	0.00
ATOM	1432	CG TRP	88	-1.739	-2.869	-11.843	1.00	0.00
ATOM	1433	CD1 TRP	88	-2.253	-1.639	-11.523	1.00	0.00
ATOM	1434	HD1 TRP	88	-2.093	-1.280	-10.507	1.00	0.00
ATOM	1435	NE1 TRP	88	-2.874	-1.118	-12.587	1.00	0.00
ATOM	1436	HE1 TRP	88	-3.259	-0.185	-12.635	1.00	0.00
ATOM	1437	CE2 TRP	88	-2.825	-2.019	-13.630	1.00	0.00
ATOM	1438	CZ2 TRP	88	-3.304	-1.924	-14.944	1.00	0.00
ATOM	1439	HZ2 TRP	88	-3.804	-1.011	-15.270	1.00	0.00
ATOM	1440	CH2 TRP	88	-3.110	-2.984	-15.723	1.00	0.00
ATOM	1441	HH2 TRP	88	-3.552	-2.974	-16.720	1.00	0.00
ATOM	1442	CZ3 TRP	88	-2.379	-4.087	-15.325	1.00	0.00
ATOM	1443	HZ3 TRP	88	-2.182	-4.916	-16.004	1.00	0.00
ATOM	1444	CE3 TRP	88	-1.886	-4.164	-14.071	1.00	0.00
ATOM	1445	HE3 TRP	88	-1.357	-5.071	-13.778	1.00	0.00
ATOM	1446	CD2 TRP	88	-2.102	-3.107	-13.208	1.00	0.00
ATOM	1447	C TRP	88	-1.320	-6.137	-10.008	1.00	0.00
ATOM	1448	O TRP	88	-0.483	-6.640	-10.706	1.00	0.00
ATOM	1449	N SER	89	-1.806	-6.649	-8.896	1.00	0.00
ATOM	1450	H SER	89	-2.580	-6.160	-8.469	1.00	0.00
ATOM	1451	CA SER	89	-1.250	-7.801	-8.202	1.00	0.00
ATOM	1452	HA SER	89	-0.401	-8.213	-8.747	1.00	0.00

ATOM	1453	CB	SER	89	-0.761	-7.330	-6.800	1.00	0.00
ATOM	1454	HB2	SER	89	-1.560	-6.815	-6.267	1.00	0.00
ATOM	1455	HB3	SER	89	-0.417	-8.177	-6.208	1.00	0.00
ATOM	1456	OG	SER	89	0.327	-6.426	-7.016	1.00	0.00
ATOM	1457	HG	SER	89	0.656	-6.113	-6.170	1.00	0.00
ATOM	1458	C	SER	89	-2.217	-8.947	-8.110	1.00	0.00
ATOM	1459	O	SER	89	-1.958	-9.867	-7.387	1.00	0.00
ATOM	1460	N	GLN	90	-3.326	-8.907	-8.825	1.00	0.00
ATOM	1461	H	GLN	90	-3.538	-8.111	-9.410	1.00	0.00
ATOM	1462	CA	GLN	90	-4.324	-9.997	-8.735	1.00	0.00
ATOM	1463	HA	GLN	90	-4.582	-10.164	-7.689	1.00	0.00
ATOM	1464	CB	GLN	90	-5.612	-9.649	-9.511	1.00	0.00
ATOM	1465	HB2	GLN	90	-5.430	-9.934	-10.547	1.00	0.00
ATOM	1466	HB3	GLN	90	-6.398	-10.278	-9.094	1.00	0.00
ATOM	1467	CG	GLN	90	-6.050	-8.181	-9.455	1.00	0.00
ATOM	1468	HG2	GLN	90	-5.748	-7.795	-8.481	1.00	0.00
ATOM	1469	HG3	GLN	90	-5.504	-7.656	-10.239	1.00	0.00
ATOM	1470	CD	GLN	90	-7.525	-7.922	-9.639	1.00	0.00
ATOM	1471	OE1	GLN	90	-8.323	-8.843	-9.840	1.00	0.00
ATOM	1472	NE2	GLN	90	-7.904	-6.638	-9.570	1.00	0.00
ATOM	1473	HE21	GLN	90	-8.878	-6.395	-9.685	1.00	0.00
ATOM	1474	HE22	GLN	90	-7.214	-5.919	-9.404	1.00	0.00



ATOM	1475	C	GLN	90	-3.750	-11.341	-9.249	1.00	0.00
ATOM	1476	O	GLN	90	-3.744	-12.359	-8.533	1.00	0.00
ATOM	1477	OXT	GLN	90	-3.291	-11.403	-10.387	1.00	0.00
TER									
ATOM	1478	S1	LIG	91	22.364	-10.998	-6.886	1.00	0.00
ATOM	1479	S2	LIG	91	19.678	-15.724	-1.340	1.00	0.00
ATOM	1480	O1	LIG	91	16.789	-11.635	-2.854	1.00	0.00
ATOM	1481	H5	LIG	91	16.250	-12.122	-2.196	1.00	0.00
ATOM	1482	O2	LIG	91	23.006	-9.578	-6.503	1.00	0.00
ATOM	1483	H6	LIG	91	22.242	-8.937	-6.621	1.00	0.00
ATOM	1484	O3	LIG	91	18.506	-16.766	-1.690	1.00	0.00
ATOM	1485	H7	LIG	91	17.671	-16.298	-1.398	1.00	0.00
ATOM	1486	O4	LIG	91	23.376	-12.000	-6.619	1.00	0.00
ATOM	1487	O5	LIG	91	21.714	-10.917	-8.186	1.00	0.00
ATOM	1488	O6	LIG	91	20.912	-16.295	-1.840	1.00	0.00
ATOM	1489	O7	LIG	91	19.554	-15.292	0.044	1.00	0.00
ATOM	1490	O8	LIG	91	18.077	-3.761	-10.127	1.00	0.00
ATOM	1491	O9	LIG	91	20.143	-3.108	-10.001	1.00	0.00
ATOM	1492	N1	LIG	91	17.803	-9.836	-4.521	1.00	0.00
ATOM	1493	H3	LIG	91	17.008	-10.086	-3.955	1.00	0.00
ATOM	1494	H4	LIG	91	17.795	-9.013	-5.104	1.00	0.00
ATOM	1495	N2	LIG	91	19.659	-9.134	-6.205	1.00	0.00

ATOM	1496	N3	LIG	91	16.913	-13.776	-1.485	1.00	0.00
ATOM	1497	N4	LIG	91	20.589	-8.496	-6.779	1.00	0.00
ATOM	1498	N5	LIG	91	16.689	-14.914	-0.988	1.00	0.00
ATOM	1499	N6	LIG	91	19.240	-3.899	-9.767	1.00	0.00
ATOM	1500	C1	LIG	91	18.940	-11.890	-3.874	1.00	0.00
ATOM	1501	C2	LIG	91	20.105	-12.698	-4.000	1.00	0.00
ATOM	1502	C3	LIG	91	18.850	-10.670	-4.644	1.00	0.00
ATOM	1503	C4	LIG	91	21.048	-11.181	-5.641	1.00	0.00
ATOM	1504	C5	LIG	91	21.137	-12.325	-4.898	1.00	0.00
ATOM	1505	H1	LIG	91	21.999	-12.970	-5.014	1.00	0.00
ATOM	1506	C6	LIG	91	17.927	-12.347	-2.992	1.00	0.00
ATOM	1507	C7	LIG	91	19.253	-14.300	-2.383	1.00	0.00
ATOM	1508	C8	LIG	91	20.241	-13.881	-3.234	1.00	0.00
ATOM	1509	H2	LIG	91	21.150	-14.462	-3.313	1.00	0.00
ATOM	1510	C9	LIG	91	19.917	-10.309	-5.532	1.00	0.00
ATOM	1511	C10	LIG	91	18.046	-13.549	-2.255	1.00	0.00
ATOM	1512	C11	LIG	91	20.189	-7.366	-7.519	1.00	0.00
ATOM	1513	C12	LIG	91	15.547	-15.037	-0.173	1.00	0.00
ATOM	1514	C13	LIG	91	18.874	-7.161	-7.970	1.00	0.00
ATOM	1515	H8	LIG	91	18.117	-7.905	-7.763	1.00	0.00
ATOM	1516	C14	LIG	91	21.193	-6.443	-7.841	1.00	0.00
ATOM	1517	H9	LIG	91	22.209	-6.622	-7.511	1.00	0.00

ATOM	1518	C15	LIG	91	18.564	-6.028	-8.703	1.00	0.00
ATOM	1519	H10	LIG	91	17.563	-5.848	-9.069	1.00	0.00
ATOM	1520	C16	LIG	91	20.887	-5.302	-8.569	1.00	0.00
ATOM	1521	H11	LIG	91	21.642	-4.571	-8.819	1.00	0.00
ATOM	1522	C17	LIG	91	19.573	-5.108	-8.985	1.00	0.00
ATOM	1523	C18	LIG	91	14.843	-13.947	0.365	1.00	0.00
ATOM	1524	H12	LIG	91	15.192	-12.939	0.181	1.00	0.00
ATOM	1525	C19	LIG	91	15.140	-16.347	0.117	1.00	0.00
ATOM	1526	H13	LIG	91	15.706	-17.181	-0.282	1.00	0.00
ATOM	1527	C20	LIG	91	13.729	-14.176	1.156	1.00	0.00
ATOM	1528	H14	LIG	91	13.189	-13.338	1.582	1.00	0.00
ATOM	1529	C21	LIG	91	14.015	-16.566	0.903	1.00	0.00
ATOM	1530	H15	LIG	91	13.697	-17.579	1.118	1.00	0.00
ATOM	1531	C22	LIG	91	13.306	-15.483	1.422	1.00	0.00
ATOM	1532	H16	LIG	91	12.436	-15.653	2.046	1.00	0.00
TER									
ATOM	1533	S1	LIG	92	13.614	-5.876	19.607	1.00	0.00
ATOM	1534	S2	LIG	92	13.002	-6.295	11.877	1.00	0.00
ATOM	1535	O1	LIG	92	16.466	-9.335	14.350	1.00	0.00
ATOM	1536	H5	LIG	92	16.513	-9.582	13.402	1.00	0.00
ATOM	1537	O2	LIG	92	14.819	-5.061	20.284	1.00	0.00
ATOM	1538	H6	LIG	92	15.501	-5.772	20.480	1.00	0.00

ATOM	1539	O3	LIG	92	12.268	-7.560	11.210	1.00	0.00
ATOM	1540	H7	LIG	92	13.018	-8.177	10.971	1.00	0.00
ATOM	1541	O4	LIG	92	12.635	-4.897	19.179	1.00	0.00
ATOM	1542	O5	LIG	92	13.231	-6.996	20.454	1.00	0.00
ATOM	1543	O6	LIG	92	11.960	-5.406	12.350	1.00	0.00
ATOM	1544	O7	LIG	92	14.057	-5.819	10.996	1.00	0.00
ATOM	1545	O8	LIG	92	19.261	-10.734	24.684	1.00	0.00
ATOM	1546	O9	LIG	92	19.327	-8.766	25.598	1.00	0.00
ATOM	1547	N1	LIG	92	16.913	-9.002	16.944	1.00	0.00
ATOM	1548	H3	LIG	92	17.182	-9.507	16.115	1.00	0.00
ATOM	1549	H4	LIG	92	17.328	-9.205	17.841	1.00	0.00
ATOM	1550	N2	LIG	92	16.212	-7.964	19.225	1.00	0.00
ATOM	1551	N3	LIG	92	15.291	-8.773	12.164	1.00	0.00
ATOM	1552	N4	LIG	92	16.229	-7.320	20.314	1.00	0.00
ATOM	1553	N5	LIG	92	14.633	-8.832	11.090	1.00	0.00
ATOM	1554	N6	LIG	92	19.012	-9.534	24.699	1.00	0.00
ATOM	1555	C1	LIG	92	15.201	-7.808	15.690	1.00	0.00
ATOM	1556	C2	LIG	92	14.158	-6.839	15.722	1.00	0.00
ATOM	1557	C3	LIG	92	15.881	-8.142	16.921	1.00	0.00
ATOM	1558	C4	LIG	92	14.399	-6.574	18.120	1.00	0.00
ATOM	1559	C5	LIG	92	13.771	-6.248	16.951	1.00	0.00
ATOM	1560	H1	LIG	92	12.949	-5.544	16.966	1.00	0.00

ATOM	1561	C6	LIG	92	15.505	-8.392	14.434	1.00	0.00
ATOM	1562	C7	LIG	92	13.809	-7.036	13.324	1.00	0.00
ATOM	1563	C8	LIG	92	13.496	-6.463	14.528	1.00	0.00
ATOM	1564	H2	LIG	92	12.732	-5.697	14.564	1.00	0.00
ATOM	1565	C9	LIG	92	15.480	-7.515	18.148	1.00	0.00
ATOM	1566	C10	LIG	92	14.817	-8.044	13.247	1.00	0.00
ATOM	1567	C11	LIG	92	16.928	-7.929	21.375	1.00	0.00
ATOM	1568	C12	LIG	92	15.218	-9.544	10.025	1.00	0.00
ATOM	1569	C13	LIG	92	17.230	-9.300	21.417	1.00	0.00
ATOM	1570	H8	LIG	92	16.903	-9.944	20.611	1.00	0.00
ATOM	1571	C14	LIG	92	17.285	-7.098	22.446	1.00	0.00
ATOM	1572	H9	LIG	92	17.026	-6.047	22.416	1.00	0.00
ATOM	1573	C15	LIG	92	17.912	-9.824	22.502	1.00	0.00
ATOM	1574	H10	LIG	92	18.150	-10.877	22.566	1.00	0.00
ATOM	1575	C16	LIG	92	17.975	-7.616	23.532	1.00	0.00
ATOM	1576	H11	LIG	92	18.271	-6.993	24.364	1.00	0.00
ATOM	1577	C17	LIG	92	18.283	-8.973	23.542	1.00	0.00
ATOM	1578	C18	LIG	92	16.574	-9.909	9.973	1.00	0.00
ATOM	1579	H12	LIG	92	17.240	-9.614	10.773	1.00	0.00
ATOM	1580	C19	LIG	92	14.365	-9.864	8.959	1.00	0.00
ATOM	1581	H13	LIG	92	13.327	-9.555	8.998	1.00	0.00
ATOM	1582	C20	LIG	92	17.052	-10.611	8.878	1.00	0.00

ATOM	1583	H14	LIG	92	18.099	-10.885	8.830	1.00	0.00
ATOM	1584	C21	LIG	92	14.851	-10.578	7.870	1.00	0.00
ATOM	1585	H15	LIG	92	14.187	-10.832	7.053	1.00	0.00
ATOM	1586	C22	LIG	92	16.193	-10.955	7.828	1.00	0.00
ATOM	1587	H16	LIG	92	16.576	-11.501	6.974	1.00	0.00
TER									
ATOM	1588	S1	LIG	93	-12.964	17.469	10.138	1.00	0.00
ATOM	1589	S2	LIG	93	-19.249	20.536	13.514	1.00	0.00
ATOM	1590	O1	LIG	93	-18.270	21.573	8.482	1.00	0.00
ATOM	1591	H5	LIG	93	-19.125	22.007	8.689	1.00	0.00
ATOM	1592	O2	LIG	93	-11.649	18.359	9.906	1.00	0.00
ATOM	1593	H6	LIG	93	-11.745	18.676	8.958	1.00	0.00
ATOM	1594	O3	LIG	93	-20.700	19.933	13.176	1.00	0.00
ATOM	1595	H7	LIG	93	-21.052	20.537	12.461	1.00	0.00
ATOM	1596	O4	LIG	93	-12.963	17.076	11.532	1.00	0.00
ATOM	1597	O5	LIG	93	-13.086	16.477	9.079	1.00	0.00
ATOM	1598	O6	LIG	93	-18.633	19.638	14.470	1.00	0.00
ATOM	1599	O7	LIG	93	-19.359	21.962	13.781	1.00	0.00
ATOM	1600	O8	LIG	93	-10.516	18.685	1.547	1.00	0.00
ATOM	1601	O9	LIG	93	-8.633	18.770	2.624	1.00	0.00
ATOM	1602	N1	LIG	93	-15.983	20.794	7.384	1.00	0.00
ATOM	1603	H3	LIG	93	-16.843	21.298	7.238	1.00	0.00

ATOM	1604	H4	LIG	93	-15.314	20.670	6.640	1.00	0.00
ATOM	1605	N2	LIG	93	-13.816	19.358	7.498	1.00	0.00
ATOM	1606	N3	LIG	93	-19.905	21.752	10.424	1.00	0.00
ATOM	1607	N4	LIG	93	-12.600	19.006	7.505	1.00	0.00
ATOM	1608	N5	LIG	93	-20.929	21.693	11.157	1.00	0.00
ATOM	1609	N6	LIG	93	-9.856	18.751	2.577	1.00	0.00
ATOM	1610	C1	LIG	93	-16.674	20.224	9.649	1.00	0.00
ATOM	1611	C2	LIG	93	-16.347	19.554	10.862	1.00	0.00
ATOM	1612	C3	LIG	93	-15.759	20.134	8.534	1.00	0.00
ATOM	1613	C4	LIG	93	-14.304	18.678	9.894	1.00	0.00
ATOM	1614	C5	LIG	93	-15.163	18.781	10.952	1.00	0.00
ATOM	1615	H1	LIG	93	-14.947	18.244	11.867	1.00	0.00
ATOM	1616	C6	LIG	93	-17.897	20.942	9.614	1.00	0.00
ATOM	1617	C7	LIG	93	-18.378	20.355	11.932	1.00	0.00
ATOM	1618	C8	LIG	93	-17.205	19.651	11.985	1.00	0.00
ATOM	1619	H2	LIG	93	-16.921	19.168	12.911	1.00	0.00
ATOM	1620	C9	LIG	93	-14.559	19.358	8.659	1.00	0.00
ATOM	1621	C10	LIG	93	-18.772	21.007	10.724	1.00	0.00
ATOM	1622	C11	LIG	93	-11.973	18.948	6.245	1.00	0.00
ATOM	1623	C12	LIG	93	-22.008	22.527	10.810	1.00	0.00
ATOM	1624	C13	LIG	93	-12.678	18.860	5.032	1.00	0.00
ATOM	1625	H8	LIG	93	-13.759	18.815	5.045	1.00	0.00

ATOM	1626	C14	LIG	93	-10.572	18.937	6.244	1.00	0.00
ATOM	1627	H9	LIG	93	-10.037	18.980	7.185	1.00	0.00
ATOM	1628	C15	LIG	93	-11.986	18.797	3.834	1.00	0.00
ATOM	1629	H10	LIG	93	-12.502	18.720	2.887	1.00	0.00
ATOM	1630	C16	LIG	93	-9.873	18.881	5.047	1.00	0.00
ATOM	1631	H11	LIG	93	-8.793	18.883	5.021	1.00	0.00
ATOM	1632	C17	LIG	93	-10.592	18.817	3.857	1.00	0.00
ATOM	1633	C18	LIG	93	-21.909	23.614	9.925	1.00	0.00
ATOM	1634	H12	LIG	93	-20.952	23.867	9.489	1.00	0.00
ATOM	1635	C19	LIG	93	-23.232	22.237	11.430	1.00	0.00
ATOM	1636	H13	LIG	93	-23.291	21.413	12.130	1.00	0.00
ATOM	1637	C20	LIG	93	-23.035	24.375	9.647	1.00	0.00
ATOM	1638	H14	LIG	93	-22.960	25.220	8.973	1.00	0.00
ATOM	1639	C21	LIG	93	-24.357	23.000	11.137	1.00	0.00
ATOM	1640	H15	LIG	93	-25.303	22.767	11.610	1.00	0.00
ATOM	1641	C22	LIG	93	-24.262	24.067	10.245	1.00	0.00
ATOM	1642	H16	LIG	93	-25.135	24.670	10.025	1.00	0.00
TER									
ATOM	1643	S1	LIG	94	12.930	18.003	-16.681	1.00	0.00
ATOM	1644	S2	LIG	94	20.122	15.357	-15.426	1.00	0.00
ATOM	1645	O1	LIG	94	17.566	13.902	-19.751	1.00	0.00
ATOM	1646	H5	LIG	94	18.461	13.506	-19.816	1.00	0.00



ATOM	1647	O2	LIG	94	11.657	17.068	-16.395	1.00	0.00
ATOM	1648	H6	LIG	94	11.446	16.680	-17.297	1.00	0.00
ATOM	1649	O3	LIG	94	21.346	15.964	-16.273	1.00	0.00
ATOM	1650	H7	LIG	94	21.466	15.313	-17.023	1.00	0.00
ATOM	1651	O4	LIG	94	13.377	18.506	-15.398	1.00	0.00
ATOM	1652	O5	LIG	94	12.643	18.911	-17.783	1.00	0.00
ATOM	1653	O6	LIG	94	19.819	16.313	-14.381	1.00	0.00
ATOM	1654	O7	LIG	94	20.383	13.960	-15.117	1.00	0.00
ATOM	1655	O8	LIG	94	7.809	16.055	-23.840	1.00	0.00
ATOM	1656	O9	LIG	94	6.402	16.014	-22.188	1.00	0.00
ATOM	1657	N1	LIG	94	15.009	14.540	-20.062	1.00	0.00
ATOM	1658	H3	LIG	94	15.794	14.046	-20.456	1.00	0.00
ATOM	1659	H4	LIG	94	14.124	14.590	-20.544	1.00	0.00
ATOM	1660	N2	LIG	94	12.939	15.931	-19.320	1.00	0.00
ATOM	1661	N3	LIG	94	19.763	13.915	-18.467	1.00	0.00
ATOM	1662	N4	LIG	94	11.780	16.254	-18.928	1.00	0.00
ATOM	1663	N5	LIG	94	20.970	14.055	-18.128	1.00	0.00
ATOM	1664	N6	LIG	94	7.536	16.057	-22.646	1.00	0.00
ATOM	1665	C1	LIG	94	16.390	15.303	-18.208	1.00	0.00
ATOM	1666	C2	LIG	94	16.456	16.060	-17.003	1.00	0.00
ATOM	1667	C3	LIG	94	15.151	15.284	-18.952	1.00	0.00
ATOM	1668	C4	LIG	94	14.167	16.810	-17.281	1.00	0.00

ATOM	1669	C5	LIG	94	15.335	16.811	-16.571	1.00	0.00
ATOM	1670	H1	LIG	94	15.412	17.414	-15.675	1.00	0.00
ATOM	1671	C6	LIG	94	17.564	14.613	-18.605	1.00	0.00
ATOM	1672	C7	LIG	94	18.764	15.392	-16.630	1.00	0.00
ATOM	1673	C8	LIG	94	17.644	16.071	-16.231	1.00	0.00
ATOM	1674	H2	LIG	94	17.664	16.620	-15.298	1.00	0.00
ATOM	1675	C9	LIG	94	14.027	16.040	-18.482	1.00	0.00
ATOM	1676	C10	LIG	94	18.762	14.656	-17.853	1.00	0.00
ATOM	1677	C11	LIG	94	10.766	16.198	-19.903	1.00	0.00
ATOM	1678	C12	LIG	94	21.909	13.221	-18.763	1.00	0.00
ATOM	1679	C13	LIG	94	11.019	16.206	-21.286	1.00	0.00
ATOM	1680	H8	LIG	94	12.038	16.276	-21.641	1.00	0.00
ATOM	1681	C14	LIG	94	9.446	16.178	-19.431	1.00	0.00
ATOM	1682	H9	LIG	94	9.260	16.198	-18.365	1.00	0.00
ATOM	1683	C15	LIG	94	9.963	16.158	-22.181	1.00	0.00
ATOM	1684	H10	LIG	94	10.128	16.172	-23.249	1.00	0.00
ATOM	1685	C16	LIG	94	8.385	16.123	-20.324	1.00	0.00
ATOM	1686	H11	LIG	94	7.360	16.095	-19.983	1.00	0.00
ATOM	1687	C17	LIG	94	8.660	16.109	-21.688	1.00	0.00
ATOM	1688	C18	LIG	94	21.572	12.065	-19.487	1.00	0.00
ATOM	1689	H12	LIG	94	20.537	11.757	-19.557	1.00	0.00
ATOM	1690	C19	LIG	94	23.255	13.586	-18.613	1.00	0.00

ATOM	1691	H13	LIG	94	23.505	14.465	-18.030	1.00	0.00
ATOM	1692	C20	LIG	94	22.575	11.310	-20.077	1.00	0.00
ATOM	1693	H14	LIG	94	22.319	10.413	-20.628	1.00	0.00
ATOM	1694	C21	LIG	94	24.252	12.829	-19.217	1.00	0.00
ATOM	1695	H15	LIG	94	25.289	13.120	-19.107	1.00	0.00
ATOM	1696	C22	LIG	94	23.915	11.692	-19.951	1.00	0.00
ATOM	1697	H16	LIG	94	24.692	11.094	-20.411	1.00	0.00
TER									
ATOM	1698	S1	LIG	95	-6.265	-21.654	-15.594	1.00	0.00
ATOM	1699	S2	LIG	95	-7.347	-15.762	-20.537	1.00	0.00
ATOM	1700	O1	LIG	95	-10.296	-20.060	-20.975	1.00	0.00
ATOM	1701	H5	LIG	95	-10.629	-19.430	-21.649	1.00	0.00
ATOM	1702	O2	LIG	95	-5.444	-22.956	-16.048	1.00	0.00
ATOM	1703	H6	LIG	95	-6.163	-23.599	-16.328	1.00	0.00
ATOM	1704	O3	LIG	95	-8.634	-14.815	-20.367	1.00	0.00
ATOM	1705	H7	LIG	95	-9.301	-15.196	-21.009	1.00	0.00
ATOM	1706	O4	LIG	95	-5.288	-20.627	-15.292	1.00	0.00
ATOM	1707	O5	LIG	95	-7.288	-22.022	-14.627	1.00	0.00
ATOM	1708	O6	LIG	95	-6.376	-15.333	-19.551	1.00	0.00
ATOM	1709	O7	LIG	95	-6.995	-15.866	-21.945	1.00	0.00
ATOM	1710	O8	LIG	95	-10.883	-29.396	-15.585	1.00	0.00
ATOM	1711	O9	LIG	95	-8.846	-30.023	-15.173	1.00	0.00

ATOM	1712	N1	LIG	95	-9.752	-22.201	-19.505	1.00	0.00
ATOM	1713	H3	LIG	95	-10.340	-21.820	-20.229	1.00	0.00
ATOM	1714	H4	LIG	95	-9.892	-23.135	-19.152	1.00	0.00
ATOM	1715	N2	LIG	95	-8.487	-23.286	-17.507	1.00	0.00
ATOM	1716	N3	LIG	95	-9.882	-17.664	-21.726	1.00	0.00
ATOM	1717	N4	LIG	95	-7.749	-24.048	-16.816	1.00	0.00
ATOM	1718	N5	LIG	95	-10.010	-16.441	-22.008	1.00	0.00
ATOM	1719	N6	LIG	95	-9.678	-29.191	-15.510	1.00	0.00
ATOM	1720	C1	LIG	95	-8.603	-20.065	-19.283	1.00	0.00
ATOM	1721	C2	LIG	95	-7.594	-19.319	-18.611	1.00	0.00
ATOM	1722	C3	LIG	95	-8.855	-21.427	-18.870	1.00	0.00
ATOM	1723	C4	LIG	95	-7.126	-21.178	-17.127	1.00	0.00
ATOM	1724	C5	LIG	95	-6.879	-19.896	-17.532	1.00	0.00
ATOM	1725	H1	LIG	95	-6.143	-19.304	-17.005	1.00	0.00
ATOM	1726	C6	LIG	95	-9.310	-19.409	-20.323	1.00	0.00
ATOM	1727	C7	LIG	95	-7.988	-17.382	-20.026	1.00	0.00
ATOM	1728	C8	LIG	95	-7.298	-17.994	-19.014	1.00	0.00
ATOM	1729	H2	LIG	95	-6.500	-17.455	-18.519	1.00	0.00
ATOM	1730	C9	LIG	95	-8.105	-21.992	-17.785	1.00	0.00
ATOM	1731	C10	LIG	95	-9.041	-18.072	-20.700	1.00	0.00
ATOM	1732	C11	LIG	95	-8.289	-25.312	-16.511	1.00	0.00
ATOM	1733	C12	LIG	95	-10.838	-16.124	-23.101	1.00	0.00

ATOM	1734	C13	LIG	95	-9.663	-25.602	-16.569	1.00	0.00
ATOM	1735	H8	LIG	95	-10.361	-24.822	-16.842	1.00	0.00
ATOM	1736	C14	LIG	95	-7.382	-26.295	-16.091	1.00	0.00
ATOM	1737	H9	LIG	95	-6.328	-26.055	-16.026	1.00	0.00
ATOM	1738	C15	LIG	95	-10.116	-26.869	-16.243	1.00	0.00
ATOM	1739	H10	LIG	95	-11.168	-27.117	-16.269	1.00	0.00
ATOM	1740	C16	LIG	95	-7.829	-27.568	-15.770	1.00	0.00
ATOM	1741	H11	LIG	95	-7.147	-28.345	-15.455	1.00	0.00
ATOM	1742	C17	LIG	95	-9.192	-27.838	-15.856	1.00	0.00
ATOM	1743	C18	LIG	95	-11.262	-17.056	-24.063	1.00	0.00
ATOM	1744	H12	LIG	95	-10.926	-18.082	-24.001	1.00	0.00
ATOM	1745	C19	LIG	95	-11.216	-14.778	-23.214	1.00	0.00
ATOM	1746	H13	LIG	95	-10.861	-14.063	-22.481	1.00	0.00
ATOM	1747	C20	LIG	95	-12.079	-16.641	-25.103	1.00	0.00
ATOM	1748	H14	LIG	95	-12.400	-17.355	-25.853	1.00	0.00
ATOM	1749	C21	LIG	95	-12.044	-14.374	-24.255	1.00	0.00
ATOM	1750	H15	LIG	95	-12.342	-13.336	-24.334	1.00	0.00
ATOM	1751	C22	LIG	95	-12.479	-15.304	-25.199	1.00	0.00
ATOM	1752	H16	LIG	95	-13.114	-14.987	-26.018	1.00	0.00
TER									
ATOM	1753	S1	LIG	96	3.175	28.045	-9.482	1.00	0.00
ATOM	1754	S2	LIG	96	-2.899	26.873	-4.788	1.00	0.00

ATOM	1755	O1	LIG	96	-2.076	23.609	-8.791	1.00	0.00
ATOM	1756	H5	LIG	96	-2.849	23.253	-8.303	1.00	0.00
ATOM	1757	O2	LIG	96	2.971	28.725	-10.921	1.00	0.00
ATOM	1758	H6	LIG	96	2.910	27.939	-11.544	1.00	0.00
ATOM	1759	O3	LIG	96	-2.850	25.677	-3.715	1.00	0.00
ATOM	1760	H7	LIG	96	-3.327	24.924	-4.170	1.00	0.00
ATOM	1761	O4	LIG	96	3.147	29.115	-8.505	1.00	0.00
ATOM	1762	O5	LIG	96	4.283	27.103	-9.529	1.00	0.00
ATOM	1763	O6	LIG	96	-2.125	27.965	-4.235	1.00	0.00
ATOM	1764	O7	LIG	96	-4.268	27.072	-5.239	1.00	0.00
ATOM	1765	O8	LIG	96	5.374	22.935	-16.575	1.00	0.00
ATOM	1766	O9	LIG	96	5.751	24.956	-17.274	1.00	0.00
ATOM	1767	N1	LIG	96	-0.197	24.151	-10.584	1.00	0.00
ATOM	1768	H3	LIG	96	-0.939	23.521	-10.326	1.00	0.00
ATOM	1769	H4	LIG	96	0.375	23.985	-11.398	1.00	0.00
ATOM	1770	N2	LIG	96	1.887	25.536	-11.299	1.00	0.00
ATOM	1771	N3	LIG	96	-3.398	24.106	-6.674	1.00	0.00
ATOM	1772	N4	LIG	96	2.673	26.286	-11.948	1.00	0.00
ATOM	1773	N5	LIG	96	-3.945	24.035	-5.540	1.00	0.00
ATOM	1774	N6	LIG	96	5.299	24.153	-16.468	1.00	0.00
ATOM	1775	C1	LIG	96	-0.575	25.459	-8.565	1.00	0.00
ATOM	1776	C2	LIG	96	-0.183	26.580	-7.780	1.00	0.00

ATOM	1777	C3	LIG	96	0.163	25.159	-9.771	1.00	0.00
ATOM	1778	C4	LIG	96	1.650	27.068	-9.290	1.00	0.00
ATOM	1779	C5	LIG	96	0.938	27.359	-8.160	1.00	0.00
ATOM	1780	H1	LIG	96	1.250	28.184	-7.533	1.00	0.00
ATOM	1781	C6	LIG	96	-1.678	24.697	-8.101	1.00	0.00
ATOM	1782	C7	LIG	96	-1.973	26.177	-6.186	1.00	0.00
ATOM	1783	C8	LIG	96	-0.907	26.923	-6.612	1.00	0.00
ATOM	1784	H2	LIG	96	-0.619	27.802	-6.050	1.00	0.00
ATOM	1785	C9	LIG	96	1.284	25.975	-10.140	1.00	0.00
ATOM	1786	C10	LIG	96	-2.378	25.018	-6.913	1.00	0.00
ATOM	1787	C11	LIG	96	3.308	25.694	-13.056	1.00	0.00
ATOM	1788	C12	LIG	96	-5.010	23.123	-5.405	1.00	0.00
ATOM	1789	C13	LIG	96	3.434	24.305	-13.227	1.00	0.00
ATOM	1790	H8	LIG	96	3.045	23.637	-12.470	1.00	0.00
ATOM	1791	C14	LIG	96	3.870	26.570	-13.996	1.00	0.00
ATOM	1792	H9	LIG	96	3.790	27.639	-13.843	1.00	0.00
ATOM	1793	C15	LIG	96	4.083	23.802	-14.342	1.00	0.00
ATOM	1794	H10	LIG	96	4.203	22.739	-14.495	1.00	0.00
ATOM	1795	C16	LIG	96	4.515	26.072	-15.118	1.00	0.00
ATOM	1796	H11	LIG	96	4.945	26.728	-15.861	1.00	0.00
ATOM	1797	C17	LIG	96	4.608	24.692	-15.278	1.00	0.00
ATOM	1798	C18	LIG	96	-5.689	22.542	-6.489	1.00	0.00

ATOM	1799	H12	LIG	96	-5.418	22.812	-7.500	1.00	0.00
ATOM	1800	C19	LIG	96	-5.403	22.829	-4.092	1.00	0.00
ATOM	1801	H13	LIG	96	-4.889	23.303	-3.264	1.00	0.00
ATOM	1802	C20	LIG	96	-6.726	21.654	-6.248	1.00	0.00
ATOM	1803	H14	LIG	96	-7.260	21.211	-7.082	1.00	0.00
ATOM	1804	C21	LIG	96	-6.437	21.929	-3.861	1.00	0.00
ATOM	1805	H15	LIG	96	-6.731	21.696	-2.845	1.00	0.00
ATOM	1806	C22	LIG	96	-7.099	21.338	-4.937	1.00	0.00
ATOM	1807	H16	LIG	96	-7.913	20.646	-4.759	1.00	0.00

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ATOM	1808	S1	LIG	97	20.133	21.560	-9.079	1.00	0.00
ATOM	1809	S2	LIG	97	22.157	24.667	-15.903	1.00	0.00
ATOM	1810	O1	LIG	97	17.607	26.025	-13.708	1.00	0.00
ATOM	1811	H5	LIG	97	17.690	26.566	-14.522	1.00	0.00
ATOM	1812	O2	LIG	97	19.065	20.364	-9.015	1.00	0.00
ATOM	1813	H6	LIG	97	18.200	20.834	-8.819	1.00	0.00
ATOM	1814	O3	LIG	97	22.662	26.192	-15.958	1.00	0.00
ATOM	1815	H7	LIG	97	21.842	26.709	-16.206	1.00	0.00
ATOM	1816	O4	LIG	97	21.394	20.974	-9.485	1.00	0.00
ATOM	1817	O5	LIG	97	20.038	22.377	-7.878	1.00	0.00
ATOM	1818	O6	LIG	97	23.273	23.871	-15.437	1.00	0.00
ATOM	1819	O7	LIG	97	21.457	24.336	-17.135	1.00	0.00



ATOM	1820	O8	LIG	97	12.533	23.332	-4.567	1.00	0.00
ATOM	1821	O9	LIG	97	12.789	21.192	-4.302	1.00	0.00
ATOM	1822	N1	LIG	97	16.749	24.762	-11.538	1.00	0.00
ATOM	1823	H3	LIG	97	16.532	25.461	-12.230	1.00	0.00
ATOM	1824	H4	LIG	97	16.125	24.573	-10.768	1.00	0.00
ATOM	1825	N2	LIG	97	17.219	23.157	-9.544	1.00	0.00
ATOM	1826	N3	LIG	97	19.301	26.453	-15.558	1.00	0.00
ATOM	1827	N4	LIG	97	17.149	22.191	-8.730	1.00	0.00
ATOM	1828	N5	LIG	97	20.124	26.987	-16.350	1.00	0.00
ATOM	1829	N6	LIG	97	13.071	22.262	-4.826	1.00	0.00
ATOM	1830	C1	LIG	97	18.924	24.386	-12.565	1.00	0.00
ATOM	1831	C2	LIG	97	20.152	23.666	-12.527	1.00	0.00
ATOM	1832	C3	LIG	97	17.950	24.158	-11.522	1.00	0.00
ATOM	1833	C4	LIG	97	19.510	22.568	-10.462	1.00	0.00
ATOM	1834	C5	LIG	97	20.422	22.773	-11.459	1.00	0.00
ATOM	1835	H1	LIG	97	21.376	22.263	-11.421	1.00	0.00
ATOM	1836	C6	LIG	97	18.740	25.297	-13.637	1.00	0.00
ATOM	1837	C7	LIG	97	20.913	24.719	-14.581	1.00	0.00
ATOM	1838	C8	LIG	97	21.114	23.839	-13.552	1.00	0.00
ATOM	1839	H2	LIG	97	22.024	23.254	-13.528	1.00	0.00
ATOM	1840	C9	LIG	97	18.243	23.236	-10.463	1.00	0.00
ATOM	1841	C10	LIG	97	19.718	25.498	-14.640	1.00	0.00

ATOM	1842	C11	LIG	97	16.120	22.271	-7.772	1.00	0.00
ATOM	1843	C12	LIG	97	19.603	27.901	-17.286	1.00	0.00
ATOM	1844	C13	LIG	97	15.475	23.471	-7.426	1.00	0.00
ATOM	1845	H8	LIG	97	15.782	24.396	-7.895	1.00	0.00
ATOM	1846	C14	LIG	97	15.779	21.078	-7.120	1.00	0.00
ATOM	1847	H9	LIG	97	16.298	20.163	-7.375	1.00	0.00
ATOM	1848	C15	LIG	97	14.478	23.467	-6.464	1.00	0.00
ATOM	1849	H10	LIG	97	13.972	24.376	-6.172	1.00	0.00
ATOM	1850	C16	LIG	97	14.776	21.067	-6.161	1.00	0.00
ATOM	1851	H11	LIG	97	14.488	20.157	-5.653	1.00	0.00
ATOM	1852	C17	LIG	97	14.136	22.264	-5.851	1.00	0.00
ATOM	1853	C18	LIG	97	18.238	28.015	-17.598	1.00	0.00
ATOM	1854	H12	LIG	97	17.522	27.354	-17.127	1.00	0.00
ATOM	1855	C19	LIG	97	20.542	28.709	-17.943	1.00	0.00
ATOM	1856	H13	LIG	97	21.595	28.595	-17.713	1.00	0.00
ATOM	1857	C20	LIG	97	17.826	28.949	-18.536	1.00	0.00
ATOM	1858	H14	LIG	97	16.775	29.032	-18.787	1.00	0.00
ATOM	1859	C21	LIG	97	20.118	29.650	-18.874	1.00	0.00
ATOM	1860	H15	LIG	97	20.845	30.279	-19.373	1.00	0.00
ATOM	1861	C22	LIG	97	18.761	29.774	-19.171	1.00	0.00
ATOM	1862	H16	LIG	97	18.431	30.499	-19.906	1.00	0.00

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ATOM	1863	S1	LIG	98	22.311	12.596	2.389	1.00	0.00
ATOM	1864	S2	LIG	98	21.313	7.267	7.948	1.00	0.00
ATOM	1865	O1	LIG	98	22.133	5.718	3.020	1.00	0.00
ATOM	1866	H5	LIG	98	22.089	4.900	3.560	1.00	0.00
ATOM	1867	O2	LIG	98	21.110	12.963	1.389	1.00	0.00
ATOM	1868	H6	LIG	98	21.295	12.393	0.583	1.00	0.00
ATOM	1869	O3	LIG	98	22.582	6.442	8.489	1.00	0.00
ATOM	1870	H7	LIG	98	22.558	5.590	7.965	1.00	0.00
ATOM	1871	O4	LIG	98	22.045	13.288	3.634	1.00	0.00
ATOM	1872	O5	LIG	98	23.589	12.743	1.708	1.00	0.00
ATOM	1873	O6	LIG	98	21.351	8.565	8.589	1.00	0.00
ATOM	1874	O7	LIG	98	20.123	6.431	8.007	1.00	0.00
ATOM	1875	O8	LIG	98	23.801	10.853	-6.329	1.00	0.00
ATOM	1876	O9	LIG	98	22.442	12.544	-6.379	1.00	0.00
ATOM	1877	N1	LIG	98	22.175	7.502	1.056	1.00	0.00
ATOM	1878	H3	LIG	98	22.224	6.522	1.287	1.00	0.00
ATOM	1879	H4	LIG	98	22.281	7.823	0.106	1.00	0.00
ATOM	1880	N2	LIG	98	22.290	9.984	0.283	1.00	0.00
ATOM	1881	N3	LIG	98	21.923	5.047	5.466	1.00	0.00
ATOM	1882	N4	LIG	98	22.020	11.089	-0.270	1.00	0.00
ATOM	1883	N5	LIG	98	22.127	4.569	6.615	1.00	0.00
ATOM	1884	N6	LIG	98	23.026	11.640	-5.799	1.00	0.00

ATOM	1885	C1	LIG	98	22.000	8.075	3.416	1.00	0.00
ATOM	1886	C2	LIG	98	21.882	9.111	4.386	1.00	0.00
ATOM	1887	C3	LIG	98	22.122	8.435	2.022	1.00	0.00
ATOM	1888	C4	LIG	98	22.057	10.815	2.670	1.00	0.00
ATOM	1889	C5	LIG	98	21.924	10.470	3.985	1.00	0.00
ATOM	1890	H1	LIG	98	21.874	11.247	4.737	1.00	0.00
ATOM	1891	C6	LIG	98	21.997	6.738	3.892	1.00	0.00
ATOM	1892	C7	LIG	98	21.719	7.494	6.194	1.00	0.00
ATOM	1893	C8	LIG	98	21.726	8.792	5.756	1.00	0.00
ATOM	1894	H2	LIG	98	21.598	9.591	6.475	1.00	0.00
ATOM	1895	C9	LIG	98	22.145	9.819	1.643	1.00	0.00
ATOM	1896	C10	LIG	98	21.879	6.421	5.266	1.00	0.00
ATOM	1897	C11	LIG	98	22.305	11.170	-1.647	1.00	0.00
ATOM	1898	C12	LIG	98	22.096	3.167	6.734	1.00	0.00
ATOM	1899	C13	LIG	98	23.193	10.304	-2.307	1.00	0.00
ATOM	1900	H8	LIG	98	23.709	9.539	-1.743	1.00	0.00
ATOM	1901	C14	LIG	98	21.683	12.210	-2.354	1.00	0.00
ATOM	1902	H9	LIG	98	21.020	12.888	-1.832	1.00	0.00
ATOM	1903	C15	LIG	98	23.427	10.456	-3.663	1.00	0.00
ATOM	1904	H10	LIG	98	24.112	9.811	-4.195	1.00	0.00
ATOM	1905	C16	LIG	98	21.909	12.363	-3.714	1.00	0.00
ATOM	1906	H11	LIG	98	21.433	13.150	-4.281	1.00	0.00

ATOM	1907	C17	LIG	98	22.775	11.479	-4.351	1.00	0.00
ATOM	1908	C18	LIG	98	21.557	2.307	5.763	1.00	0.00
ATOM	1909	H12	LIG	98	21.107	2.720	4.870	1.00	0.00
ATOM	1910	C19	LIG	98	22.619	2.641	7.924	1.00	0.00
ATOM	1911	H13	LIG	98	23.008	3.315	8.678	1.00	0.00
ATOM	1912	C20	LIG	98	21.576	0.937	5.977	1.00	0.00
ATOM	1913	H14	LIG	98	21.152	0.271	5.234	1.00	0.00
ATOM	1914	C21	LIG	98	22.643	1.265	8.124	1.00	0.00
ATOM	1915	H15	LIG	98	23.057	0.862	9.040	1.00	0.00
ATOM	1916	C22	LIG	98	22.124	0.411	7.151	1.00	0.00
ATOM	1917	H16	LIG	98	22.130	-0.660	7.312	1.00	0.00

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ATOM	1918	S1	LIG	99	3.476	0.375	18.444	1.00	0.00
ATOM	1919	S2	LIG	99	0.580	7.563	17.944	1.00	0.00
ATOM	1920	O1	LIG	99	-1.780	3.657	15.388	1.00	0.00
ATOM	1921	H5	LIG	99	-2.331	4.455	15.237	1.00	0.00
ATOM	1922	O2	LIG	99	4.352	-0.234	17.246	1.00	0.00
ATOM	1923	H6	LIG	99	3.685	-0.766	16.716	1.00	0.00
ATOM	1924	O3	LIG	99	-0.759	7.933	18.751	1.00	0.00
ATOM	1925	H7	LIG	99	-1.488	7.822	18.075	1.00	0.00
ATOM	1926	O4	LIG	99	4.345	1.264	19.189	1.00	0.00
ATOM	1927	O5	LIG	99	2.740	-0.688	19.114	1.00	0.00

ATOM	1928	O6	LIG	99	1.669	7.596	18.898	1.00	0.00
ATOM	1929	O7	LIG	99	0.637	8.330	16.709	1.00	0.00
ATOM	1930	O8	LIG	99	0.065	-6.936	14.421	1.00	0.00
ATOM	1931	O9	LIG	99	2.209	-7.192	14.198	1.00	0.00
ATOM	1932	N1	LIG	99	-0.651	1.258	15.291	1.00	0.00
ATOM	1933	H3	LIG	99	-1.424	1.823	14.980	1.00	0.00
ATOM	1934	H4	LIG	99	-0.584	0.281	15.052	1.00	0.00
ATOM	1935	N2	LIG	99	1.145	-0.412	16.163	1.00	0.00
ATOM	1936	N3	LIG	99	-1.866	6.092	16.124	1.00	0.00
ATOM	1937	N4	LIG	99	2.109	-1.230	16.212	1.00	0.00
ATOM	1938	N5	LIG	99	-2.216	7.200	16.614	1.00	0.00
ATOM	1939	N6	LIG	99	1.220	-6.532	14.486	1.00	0.00
ATOM	1940	C1	LIG	99	0.216	3.123	16.595	1.00	0.00
ATOM	1941	C2	LIG	99	1.234	3.592	17.474	1.00	0.00
ATOM	1942	C3	LIG	99	0.246	1.743	16.167	1.00	0.00
ATOM	1943	C4	LIG	99	2.254	1.394	17.559	1.00	0.00
ATOM	1944	C5	LIG	99	2.232	2.704	17.947	1.00	0.00
ATOM	1945	H1	LIG	99	2.975	3.064	18.646	1.00	0.00
ATOM	1946	C6	LIG	99	-0.777	4.054	16.198	1.00	0.00
ATOM	1947	C7	LIG	99	0.288	5.832	17.484	1.00	0.00
ATOM	1948	C8	LIG	99	1.254	4.947	17.884	1.00	0.00
ATOM	1949	H2	LIG	99	2.057	5.296	18.521	1.00	0.00

ATOM	1950	C9	LIG	99	1.279	0.870	16.649	1.00	0.00
ATOM	1951	C10	LIG	99	-0.779	5.399	16.639	1.00	0.00
ATOM	1952	C11	LIG	99	1.823	-2.540	15.781	1.00	0.00
ATOM	1953	C12	LIG	99	-3.292	7.860	15.990	1.00	0.00
ATOM	1954	C13	LIG	99	0.520	-3.061	15.699	1.00	0.00
ATOM	1955	H8	LIG	99	-0.320	-2.447	15.994	1.00	0.00
ATOM	1956	C14	LIG	99	2.924	-3.349	15.467	1.00	0.00
ATOM	1957	H9	LIG	99	3.925	-2.946	15.558	1.00	0.00
ATOM	1958	C15	LIG	99	0.324	-4.365	15.274	1.00	0.00
ATOM	1959	H10	LIG	99	-0.666	-4.795	15.210	1.00	0.00
ATOM	1960	C16	LIG	99	2.732	-4.653	15.035	1.00	0.00
ATOM	1961	H11	LIG	99	3.565	-5.292	14.777	1.00	0.00
ATOM	1962	C17	LIG	99	1.432	-5.141	14.940	1.00	0.00
ATOM	1963	C18	LIG	99	-3.778	7.536	14.712	1.00	0.00
ATOM	1964	H12	LIG	99	-3.299	6.755	14.137	1.00	0.00
ATOM	1965	C19	LIG	99	-3.865	8.917	16.712	1.00	0.00
ATOM	1966	H13	LIG	99	-3.465	9.174	17.685	1.00	0.00
ATOM	1967	C20	LIG	99	-4.846	8.247	14.187	1.00	0.00
ATOM	1968	H14	LIG	99	-5.217	8.007	13.197	1.00	0.00
ATOM	1969	C21	LIG	99	-4.942	9.617	16.180	1.00	0.00
ATOM	1970	H15	LIG	99	-5.388	10.426	16.744	1.00	0.00
ATOM	1971	C22	LIG	99	-5.435	9.283	14.919	1.00	0.00

ATOM	1972	H16	LIG	99	-6.266	9.837	14.499	1.00	0.00
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ATOM	1973	S1	LIG	100	6.446	26.926	8.406	1.00	0.00
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ATOM	1974	S2	LIG	100	2.893	25.995	15.248	1.00	0.00
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ATOM	1975	O1	LIG	100	1.036	23.522	11.030	1.00	0.00
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ATOM	1976	H5	LIG	100	0.483	23.228	11.785	1.00	0.00
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ATOM	1977	O2	LIG	100	5.832	27.911	7.298	1.00	0.00
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ATOM	1978	H6	LIG	100	5.307	27.296	6.704	1.00	0.00
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ATOM	1979	O3	LIG	100	3.081	24.618	16.055	1.00	0.00
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ATOM	1980	H7	LIG	100	2.276	24.079	15.804	1.00	0.00
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ATOM	1981	O4	LIG	100	7.120	27.759	9.381	1.00	0.00
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ATOM	1982	O5	LIG	100	7.137	25.819	7.760	1.00	0.00
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ATOM	1983	O6	LIG	100	4.086	26.784	15.479	1.00	0.00
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ATOM	1984	O7	LIG	100	1.568	26.538	15.506	1.00	0.00
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ATOM	1985	O8	LIG	100	3.973	23.050	0.651	1.00	0.00
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ATOM	1986	O9	LIG	100	4.530	25.062	0.054	1.00	0.00
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ATOM	1987	N1	LIG	100	2.036	24.053	8.630	1.00	0.00
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ATOM	1988	H3	LIG	100	1.340	23.535	9.141	1.00	0.00
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ATOM	1989	H4	LIG	100	2.139	23.950	7.632	1.00	0.00
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ATOM	1990	N2	LIG	100	3.897	25.132	7.165	1.00	0.00
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ATOM	1991	N3	LIG	100	0.929	23.818	13.555	1.00	0.00
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ATOM	1992	N4	LIG	100	4.495	25.836	6.300	1.00	0.00
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ATOM	1993	N5	LIG	100	0.922	23.622	14.801	1.00	0.00
ATOM	1994	N6	LIG	100	4.274	24.212	0.897	1.00	0.00
ATOM	1995	C1	LIG	100	2.916	24.968	10.708	1.00	0.00
ATOM	1996	C2	LIG	100	3.885	25.809	11.324	1.00	0.00
ATOM	1997	C3	LIG	100	2.960	24.785	9.275	1.00	0.00
ATOM	1998	C4	LIG	100	4.953	26.238	9.189	1.00	0.00
ATOM	1999	C5	LIG	100	4.897	26.422	10.543	1.00	0.00
ATOM	2000	H1	LIG	100	5.651	27.026	11.029	1.00	0.00
ATOM	2001	C6	LIG	100	1.961	24.351	11.556	1.00	0.00
ATOM	2002	C7	LIG	100	2.913	25.437	13.521	1.00	0.00
ATOM	2003	C8	LIG	100	3.848	26.038	12.721	1.00	0.00
ATOM	2004	H2	LIG	100	4.569	26.711	13.167	1.00	0.00
ATOM	2005	C9	LIG	100	3.986	25.431	8.507	1.00	0.00
ATOM	2006	C10	LIG	100	1.948	24.549	12.957	1.00	0.00
ATOM	2007	C11	LIG	100	4.415	25.373	4.972	1.00	0.00
ATOM	2008	C12	LIG	100	-0.181	22.922	15.327	1.00	0.00
ATOM	2009	C13	LIG	100	4.087	24.050	4.631	1.00	0.00
ATOM	2010	H8	LIG	100	3.899	23.328	5.414	1.00	0.00
ATOM	2011	C14	LIG	100	4.729	26.300	3.968	1.00	0.00
ATOM	2012	H9	LIG	100	5.005	27.310	4.242	1.00	0.00
ATOM	2013	C15	LIG	100	4.039	23.672	3.300	1.00	0.00
ATOM	2014	H10	LIG	100	3.798	22.659	3.008	1.00	0.00

ATOM	2015	C16	LIG	100	4.676	25.928	2.632	1.00	0.00
ATOM	2016	H11	LIG	100	4.902	26.628	1.841	1.00	0.00
ATOM	2017	C17	LIG	100	4.326	24.618	2.317	1.00	0.00
ATOM	2018	C18	LIG	100	-1.384	22.714	14.633	1.00	0.00
ATOM	2019	H12	LIG	100	-1.511	23.128	13.642	1.00	0.00
ATOM	2020	C19	LIG	100	-0.035	22.445	16.638	1.00	0.00
ATOM	2021	H13	LIG	100	0.887	22.634	17.173	1.00	0.00
ATOM	2022	C20	LIG	100	-2.411	22.009	15.241	1.00	0.00
ATOM	2023	H14	LIG	100	-3.345	21.855	14.713	1.00	0.00
ATOM	2024	C21	LIG	100	-1.067	21.730	17.235	1.00	0.00
ATOM	2025	H15	LIG	100	-0.948	21.355	18.244	1.00	0.00
ATOM	2026	C22	LIG	100	-2.255	21.509	16.538	1.00	0.00
ATOM	2027	H16	LIG	100	-3.065	20.963	17.008	1.00	0.00
TER									
END									

**Table S:** The number of atoms present in the system of MO-SIs

ATOM	1	N	PRO	1	-17.359	10.010	-6.715	1.00	0.00
ATOM	2	H2	PRO	1	-17.714	9.080	-6.543	1.00	0.00
ATOM	3	H3	PRO	1	-17.984	10.739	-7.032	1.00	0.00
ATOM	4	CD	PRO	1	-16.754	10.558	-5.480	1.00	0.00
ATOM	5	HD2	PRO	1	-16.740	9.782	-4.716	1.00	0.00

ATOM	6	HD3 PRO	1	-17.355	11.399	-5.132	1.00	0.00
ATOM	7	CG PRO	1	-15.368	10.978	-5.906	1.00	0.00
ATOM	8	HG2 PRO	1	-14.650	10.445	-5.283	1.00	0.00
ATOM	9	HG3 PRO	1	-15.274	12.050	-5.732	1.00	0.00
ATOM	10	CB PRO	1	-15.178	10.649	-7.378	1.00	0.00
ATOM	11	HB2 PRO	1	-14.242	10.110	-7.518	1.00	0.00
ATOM	12	HB3 PRO	1	-15.175	11.549	-7.994	1.00	0.00
ATOM	13	CA PRO	1	-16.362	9.750	-7.769	1.00	0.00
ATOM	14	HA PRO	1	-16.800	10.058	-8.719	1.00	0.00
ATOM	15	C PRO	1	-15.935	8.263	-7.856	1.00	0.00
ATOM	16	O PRO	1	-16.209	7.474	-6.932	1.00	0.00
ATOM	17	N PRO	2	-15.309	7.875	-8.972	1.00	0.00
ATOM	18	CD PRO	2	-14.905	8.746	-10.081	1.00	0.00
ATOM	19	HD2 PRO	2	-14.142	9.438	-9.724	1.00	0.00
ATOM	20	HD3 PRO	2	-15.775	9.309	-10.419	1.00	0.00
ATOM	21	CG PRO	2	-14.394	7.822	-11.117	1.00	0.00
ATOM	22	HG2 PRO	2	-13.382	8.132	-11.376	1.00	0.00
ATOM	23	HG3 PRO	2	-15.036	7.910	-11.994	1.00	0.00
ATOM	24	CB PRO	2	-14.417	6.451	-10.585	1.00	0.00
ATOM	25	HB2 PRO	2	-13.403	6.055	-10.633	1.00	0.00
ATOM	26	HB3 PRO	2	-15.086	5.806	-11.154	1.00	0.00
ATOM	27	CA PRO	2	-14.874	6.525	-9.141	1.00	0.00

ATOM	28	HA	PRO	2	-15.723	5.867	-8.954	1.00	0.00
ATOM	29	C	PRO	2	-13.731	6.167	-8.187	1.00	0.00
ATOM	30	O	PRO	2	-12.988	6.987	-7.737	1.00	0.00
ATOM	31	N	THR	3	-13.582	4.885	-7.960	1.00	0.00
ATOM	32	H	THR	3	-14.094	4.192	-8.487	1.00	0.00
ATOM	33	CA	THR	3	-12.682	4.434	-6.935	1.00	0.00
ATOM	34	HA	THR	3	-13.015	4.877	-5.996	1.00	0.00
ATOM	35	CB	THR	3	-12.793	2.907	-6.823	1.00	0.00
ATOM	36	HB	THR	3	-12.500	2.463	-7.774	1.00	0.00
ATOM	37	CG2	THR	3	-11.921	2.397	-5.754	1.00	0.00
ATOM	38	HG21	THR	3	-12.214	2.841	-4.803	1.00	0.00
ATOM	39	HG22	THR	3	-12.016	1.313	-5.693	1.00	0.00
ATOM	40	HG23	THR	3	-10.886	2.659	-5.973	1.00	0.00
ATOM	41	OG1	THR	3	-14.150	2.600	-6.424	1.00	0.00
ATOM	42	HG1	THR	3	-14.253	1.649	-6.345	1.00	0.00
ATOM	43	C	THR	3	-11.263	4.796	-7.230	1.00	0.00
ATOM	44	O	THR	3	-10.561	5.254	-6.348	1.00	0.00
ATOM	45	N	LEU	4	-10.846	4.604	-8.479	1.00	0.00
ATOM	46	H	LEU	4	-11.401	4.218	-9.230	1.00	0.00
ATOM	47	CA	LEU	4	-9.427	4.926	-8.749	1.00	0.00
ATOM	48	HA	LEU	4	-8.811	4.395	-8.024	1.00	0.00
ATOM	49	CB	LEU	4	-8.973	4.535	-10.157	1.00	0.00

ATOM	50	HB2 LEU	4	-9.145	3.459	-10.182	1.00	0.00
ATOM	51	HB3 LEU	4	-9.629	5.024	-10.877	1.00	0.00
ATOM	52	CG LEU	4	-7.539	4.822	-10.510	1.00	0.00
ATOM	53	HG LEU	4	-7.396	5.898	-10.408	1.00	0.00
ATOM	54	CD1 LEU	4	-6.527	4.096	-9.654	1.00	0.00
ATOM	55	HD11 LEU	4	-6.670	3.020	-9.756	1.00	0.00
ATOM	56	HD12 LEU	4	-5.521	4.361	-9.977	1.00	0.00
ATOM	57	HD13 LEU	4	-6.661	4.383	-8.611	1.00	0.00
ATOM	58	CD2 LEU	4	-7.380	4.473	-11.954	1.00	0.00
ATOM	59	HD21 LEU	4	-8.058	5.082	-12.553	1.00	0.00
ATOM	60	HD22 LEU	4	-6.353	4.664	-12.264	1.00	0.00
ATOM	61	HD23 LEU	4	-7.614	3.419	-12.102	1.00	0.00
ATOM	62	C LEU	4	-9.157	6.403	-8.535	1.00	0.00
ATOM	63	O LEU	4	-8.150	6.757	-8.013	1.00	0.00
ATOM	64	N GLN	5	-10.083	7.251	-8.929	1.00	0.00
ATOM	65	H GLN	5	-10.899	6.958	-9.447	1.00	0.00
ATOM	66	CA GLN	5	-9.877	8.676	-8.716	1.00	0.00
ATOM	67	HA GLN	5	-8.894	8.978	-9.076	1.00	0.00
ATOM	68	CB GLN	5	-10.951	9.464	-9.497	1.00	0.00
ATOM	69	HB2 GLN	5	-10.821	9.234	-10.555	1.00	0.00
ATOM	70	HB3 GLN	5	-11.926	9.106	-9.165	1.00	0.00
ATOM	71	CG GLN	5	-10.867	10.991	-9.290	1.00	0.00

ATOM	72	HG2 GLN	5	-10.817	11.247	-8.232	1.00	0.00
ATOM	73	HG3 GLN	5	-9.955	11.322	-9.787	1.00	0.00
ATOM	74	CD GLN	5	-12.048	11.719	-9.910	1.00	0.00
ATOM	75	OE1 GLN	5	-12.682	11.214	-10.877	1.00	0.00
ATOM	76	NE2 GLN	5	-12.399	12.881	-9.325	1.00	0.00
ATOM	77	HE21 GLN	5	-13.177	13.413	-9.691	1.00	0.00
ATOM	78	HE22 GLN	5	-11.884	13.216	-8.524	1.00	0.00
ATOM	79	C GLN	5	-9.851	9.057	-7.225	1.00	0.00
ATOM	80	O GLN	5	-8.983	9.832	-6.806	1.00	0.00
ATOM	81	N ARG	6	-10.642	8.345	-6.388	1.00	0.00
ATOM	82	H ARG	6	-11.268	7.646	-6.762	1.00	0.00
ATOM	83	CA ARG	6	-10.648	8.573	-4.989	1.00	0.00
ATOM	84	HA ARG	6	-10.768	9.639	-4.792	1.00	0.00
ATOM	85	CB ARG	6	-11.785	7.829	-4.330	1.00	0.00
ATOM	86	HB2 ARG	6	-11.692	6.792	-4.652	1.00	0.00
ATOM	87	HB3 ARG	6	-11.604	7.894	-3.257	1.00	0.00
ATOM	88	CG ARG	6	-13.182	8.329	-4.637	1.00	0.00
ATOM	89	HG2 ARG	6	-13.151	9.419	-4.662	1.00	0.00
ATOM	90	HG3 ARG	6	-13.466	7.952	-5.620	1.00	0.00
ATOM	91	CD ARG	6	-14.235	7.861	-3.574	1.00	0.00
ATOM	92	HD2 ARG	6	-14.098	8.484	-2.691	1.00	0.00
ATOM	93	HD3 ARG	6	-15.223	8.045	-3.998	1.00	0.00

ATOM	94	NE	ARG	6	-14.150	6.443	-3.171	1.00	0.00
ATOM	95	HE	ARG	6	-13.623	6.250	-2.332	1.00	0.00
ATOM	96	CZ	ARG	6	-14.714	5.412	-3.827	1.00	0.00
ATOM	97	NH1	ARG	6	-15.446	5.594	-4.927	1.00	0.00
ATOM	98	HH11	ARG	6	-15.588	6.527	-5.287	1.00	0.00
ATOM	99	HH12	ARG	6	-15.855	4.798	-5.395	1.00	0.00
ATOM	100	NH2	ARG	6	-14.548	4.152	-3.382	1.00	0.00
ATOM	101	HH21	ARG	6	-13.998	3.981	-2.553	1.00	0.00
ATOM	102	HH22	ARG	6	-14.975	3.384	-3.880	1.00	0.00
ATOM	103	C	ARG	6	-9.306	8.115	-4.446	1.00	0.00
ATOM	104	O	ARG	6	-8.745	8.692	-3.528	1.00	0.00
ATOM	105	N	CYX	7	-8.820	6.955	-4.962	1.00	0.00
ATOM	106	H	CYX	7	-9.340	6.381	-5.610	1.00	0.00
ATOM	107	CA	CYX	7	-7.526	6.491	-4.522	1.00	0.00
ATOM	108	HA	CYX	7	-7.535	6.345	-3.442	1.00	0.00
ATOM	109	CB	CYX	7	-7.167	5.131	-5.208	1.00	0.00
ATOM	110	HB2	CYX	7	-7.783	4.337	-4.786	1.00	0.00
ATOM	111	HB3	CYX	7	-7.353	5.204	-6.280	1.00	0.00
ATOM	112	SG	CYX	7	-5.476	4.652	-5.056	1.00	0.00
ATOM	113	C	CYX	7	-6.427	7.523	-4.807	1.00	0.00
ATOM	114	O	CYX	7	-5.631	7.864	-3.944	1.00	0.00
ATOM	115	N	CYX	8	-6.401	8.119	-5.981	1.00	0.00

ATOM	116	H	CYX	8	-7.145	7.981	-6.650	1.00	0.00
ATOM	117	CA	CYX	8	-5.321	9.010	-6.333	1.00	0.00
ATOM	118	HA	CYX	8	-4.374	8.517	-6.117	1.00	0.00
ATOM	119	CB	CYX	8	-5.342	9.391	-7.778	1.00	0.00
ATOM	120	HB2	CYX	8	-6.324	9.789	-8.035	1.00	0.00
ATOM	121	HB3	CYX	8	-4.583	10.150	-7.965	1.00	0.00
ATOM	122	SG	CYX	8	-5.037	7.981	-8.938	1.00	0.00
ATOM	123	C	CYX	8	-5.432	10.327	-5.528	1.00	0.00
ATOM	124	O	CYX	8	-4.468	10.841	-5.128	1.00	0.00
ATOM	125	N	ARG	9	-6.662	10.668	-5.202	1.00	0.00
ATOM	126	H	ARG	9	-7.450	10.183	-5.607	1.00	0.00
ATOM	127	CA	ARG	9	-6.935	11.844	-4.296	1.00	0.00
ATOM	128	HA	ARG	9	-6.346	12.693	-4.644	1.00	0.00
ATOM	129	CB	ARG	9	-8.388	12.246	-4.268	1.00	0.00
ATOM	130	HB2	ARG	9	-8.691	12.564	-5.266	1.00	0.00
ATOM	131	HB3	ARG	9	-8.990	11.391	-3.962	1.00	0.00
ATOM	132	CG	ARG	9	-8.592	13.362	-3.310	1.00	0.00
ATOM	133	HG2	ARG	9	-8.251	13.023	-2.332	1.00	0.00
ATOM	134	HG3	ARG	9	-7.974	14.197	-3.641	1.00	0.00
ATOM	135	CD	ARG	9	-10.061	13.819	-3.211	1.00	0.00
ATOM	136	HD2	ARG	9	-10.121	14.507	-2.368	1.00	0.00
ATOM	137	HD3	ARG	9	-10.287	14.356	-4.133	1.00	0.00



ATOM	138	NE	ARG	9	-11.056	12.765	-3.027	1.00	0.00
ATOM	139	HE	ARG	9	-11.654	12.614	-3.827	1.00	0.00
ATOM	140	CZ	ARG	9	-11.252	12.012	-1.925	1.00	0.00
ATOM	141	NH1	ARG	9	-10.516	12.149	-0.810	1.00	0.00
ATOM	142	HH11	ARG	9	-9.780	12.840	-0.776	1.00	0.00
ATOM	143	HH12	ARG	9	-10.702	11.561	-0.011	1.00	0.00
ATOM	144	NH2	ARG	9	-12.211	11.076	-1.941	1.00	0.00
ATOM	145	HH21	ARG	9	-12.772	10.946	-2.771	1.00	0.00
ATOM	146	HH22	ARG	9	-12.369	10.505	-1.123	1.00	0.00
ATOM	147	C	ARG	9	-6.446	11.566	-2.887	1.00	0.00
ATOM	148	O	ARG	9	-5.670	12.304	-2.294	1.00	0.00
ATOM	149	N	GLN	10	-6.717	10.360	-2.326	1.00	0.00
ATOM	150	H	GLN	10	-7.311	9.658	-2.745	1.00	0.00
ATOM	151	CA	GLN	10	-6.170	10.101	-1.017	1.00	0.00
ATOM	152	HA	GLN	10	-6.409	10.909	-0.326	1.00	0.00
ATOM	153	CB	GLN	10	-6.809	8.783	-0.483	1.00	0.00
ATOM	154	HB2	GLN	10	-6.496	8.003	-1.177	1.00	0.00
ATOM	155	HB3	GLN	10	-6.351	8.609	0.490	1.00	0.00
ATOM	156	CG	GLN	10	-8.307	8.758	-0.344	1.00	0.00
ATOM	157	HG2	GLN	10	-8.423	9.352	0.563	1.00	0.00
ATOM	158	HG3	GLN	10	-8.793	9.268	-1.176	1.00	0.00
ATOM	159	CD	GLN	10	-8.995	7.397	-0.132	1.00	0.00

ATOM	160	OE1	GLN	10	-8.445	6.312	-0.328	1.00	0.00
ATOM	161	NE2	GLN	10	-10.275	7.484	0.126	1.00	0.00
ATOM	162	HE21	GLN	10	-10.814	6.644	0.280	1.00	0.00
ATOM	163	HE22	GLN	10	-10.718	8.391	0.169	1.00	0.00
ATOM	164	C	GLN	10	-4.735	9.997	-0.920	1.00	0.00
ATOM	165	O	GLN	10	-4.057	10.497	-0.073	1.00	0.00
ATOM	166	N	LEU	11	-4.125	9.368	-1.973	1.00	0.00
ATOM	167	H	LEU	11	-4.702	8.880	-2.644	1.00	0.00
ATOM	168	CA	LEU	11	-2.712	9.236	-2.076	1.00	0.00
ATOM	169	HA	LEU	11	-2.297	8.917	-1.120	1.00	0.00
ATOM	170	CB	LEU	11	-2.354	8.184	-3.144	1.00	0.00
ATOM	171	HB2	LEU	11	-2.973	7.319	-2.906	1.00	0.00
ATOM	172	HB3	LEU	11	-2.641	8.578	-4.119	1.00	0.00
ATOM	173	CG	LEU	11	-0.936	7.781	-3.175	1.00	0.00
ATOM	174	HG	LEU	11	-0.345	8.683	-3.335	1.00	0.00
ATOM	175	CD1	LEU	11	-0.472	7.090	-1.904	1.00	0.00
ATOM	176	HD11	LEU	11	-1.063	6.188	-1.744	1.00	0.00
ATOM	177	HD12	LEU	11	0.580	6.823	-1.999	1.00	0.00
ATOM	178	HD13	LEU	11	-0.600	7.763	-1.057	1.00	0.00
ATOM	179	CD2	LEU	11	-0.689	6.852	-4.356	1.00	0.00
ATOM	180	HD21	LEU	11	-0.937	7.369	-5.284	1.00	0.00
ATOM	181	HD22	LEU	11	0.360	6.558	-4.374	1.00	0.00

ATOM	182	HD23	LEU	11	-1.314	5.964	-4.258	1.00	0.00
ATOM	183	C	LEU	11	-1.983	10.542	-2.282	1.00	0.00
ATOM	184	O	LEU	11	-0.915	10.752	-1.788	1.00	0.00
ATOM	185	N	ARG	12	-2.665	11.384	-3.050	1.00	0.00
ATOM	186	H	ARG	12	-3.563	11.162	-3.456	1.00	0.00
ATOM	187	CA	ARG	12	-2.064	12.733	-3.341	1.00	0.00
ATOM	188	HA	ARG	12	-1.073	12.609	-3.776	1.00	0.00
ATOM	189	CB	ARG	12	-2.912	13.487	-4.301	1.00	0.00
ATOM	190	HB2	ARG	12	-2.875	12.981	-5.266	1.00	0.00
ATOM	191	HB3	ARG	12	-3.937	13.487	-3.931	1.00	0.00
ATOM	192	CG	ARG	12	-2.433	14.918	-4.462	1.00	0.00
ATOM	193	HG2	ARG	12	-2.473	15.379	-3.475	1.00	0.00
ATOM	194	HG3	ARG	12	-1.398	14.870	-4.799	1.00	0.00
ATOM	195	CD	ARG	12	-3.239	15.742	-5.434	1.00	0.00
ATOM	196	HD2	ARG	12	-2.798	16.739	-5.444	1.00	0.00
ATOM	197	HD3	ARG	12	-3.117	15.282	-6.415	1.00	0.00
ATOM	198	NE	ARG	12	-4.614	15.861	-5.160	1.00	0.00
ATOM	199	HE	ARG	12	-5.259	15.315	-5.714	1.00	0.00
ATOM	200	CZ	ARG	12	-5.087	16.564	-4.168	1.00	0.00
ATOM	201	NH1	ARG	12	-4.281	17.257	-3.407	1.00	0.00
ATOM	202	HH11	ARG	12	-3.288	17.248	-3.589	1.00	0.00
ATOM	203	HH12	ARG	12	-4.656	17.799	-2.641	1.00	0.00

ATOM	204	NH2	ARG	12	-6.325	16.657	-3.996	1.00	0.00
ATOM	205	HH21	ARG	12	-6.957	16.186	-4.628	1.00	0.00
ATOM	206	HH22	ARG	12	-6.686	17.203	-3.226	1.00	0.00
ATOM	207	C	ARG	12	-1.961	13.489	-2.018	1.00	0.00
ATOM	208	O	ARG	12	-0.947	14.091	-1.804	1.00	0.00
ATOM	209	N	ASN	13	-2.929	13.281	-1.140	1.00	0.00
ATOM	210	H	ASN	13	-3.778	12.819	-1.433	1.00	0.00
ATOM	211	CA	ASN	13	-2.916	13.978	0.222	1.00	0.00
ATOM	212	HA	ASN	13	-2.509	14.985	0.123	1.00	0.00
ATOM	213	CB	ASN	13	-4.292	14.075	0.752	1.00	0.00
ATOM	214	HB2	ASN	13	-4.841	13.136	0.679	1.00	0.00
ATOM	215	HB3	ASN	13	-4.171	14.344	1.801	1.00	0.00
ATOM	216	CG	ASN	13	-5.083	15.143	0.075	1.00	0.00
ATOM	217	OD1	ASN	13	-4.865	16.301	0.333	1.00	0.00
ATOM	218	ND2	ASN	13	-5.903	14.786	-0.832	1.00	0.00
ATOM	219	HD21	ASN	13	-6.456	15.483	-1.312	1.00	0.00
ATOM	220	HD22	ASN	13	-5.997	13.809	-1.067	1.00	0.00
ATOM	221	C	ASN	13	-1.879	13.476	1.196	1.00	0.00
ATOM	222	O	ASN	13	-1.623	14.051	2.282	1.00	0.00
ATOM	223	N	VAL	14	-1.297	12.286	0.912	1.00	0.00
ATOM	224	H	VAL	14	-1.753	11.666	0.258	1.00	0.00
ATOM	225	CA	VAL	14	-0.164	11.836	1.561	1.00	0.00

ATOM	226	HA	VAL	14	-0.025	12.174	2.588	1.00	0.00
ATOM	227	CB	VAL	14	-0.114	10.243	1.538	1.00	0.00
ATOM	228	HB	VAL	14	-0.190	9.890	0.510	1.00	0.00
ATOM	229	CG1	VAL	14	1.214	9.770	2.145	1.00	0.00
ATOM	230	HG11	VAL	14	1.290	10.123	3.173	1.00	0.00
ATOM	231	HG12	VAL	14	1.252	8.681	2.131	1.00	0.00
ATOM	232	HG13	VAL	14	2.043	10.170	1.562	1.00	0.00
ATOM	233	CG2	VAL	14	-1.334	9.707	2.153	1.00	0.00
ATOM	234	HG21	VAL	14	-2.205	10.052	1.594	1.00	0.00
ATOM	235	HG22	VAL	14	-1.301	8.618	2.138	1.00	0.00
ATOM	236	HG23	VAL	14	-1.404	10.054	3.184	1.00	0.00
ATOM	237	C	VAL	14	1.145	12.459	0.994	1.00	0.00
ATOM	238	O	VAL	14	1.311	12.583	-0.222	1.00	0.00
ATOM	239	N	SER	15	2.090	12.842	1.864	1.00	0.00
ATOM	240	H	SER	15	1.984	12.665	2.852	1.00	0.00
ATOM	241	CA	SER	15	3.336	13.444	1.398	1.00	0.00
ATOM	242	HA	SER	15	3.116	14.376	0.876	1.00	0.00
ATOM	243	CB	SER	15	4.261	13.744	2.553	1.00	0.00
ATOM	244	HB2	SER	15	4.507	12.858	3.138	1.00	0.00
ATOM	245	HB3	SER	15	5.180	14.239	2.240	1.00	0.00
ATOM	246	OG	SER	15	3.506	14.617	3.330	1.00	0.00
ATOM	247	HG	SER	15	4.011	14.875	4.104	1.00	0.00

ATOM	248	C	SER	15	4.095	12.529	0.560	1.00	0.00
ATOM	249	O	SER	15	4.101	11.303	0.853	1.00	0.00
ATOM	250	N	PRO	16	4.727	13.012	-0.504	1.00	0.00
ATOM	251	CD	PRO	16	4.668	14.415	-1.083	1.00	0.00
ATOM	252	HD2	PRO	16	5.130	15.116	-0.388	1.00	0.00
ATOM	253	HD3	PRO	16	3.628	14.699	-1.246	1.00	0.00
ATOM	254	CG	PRO	16	5.442	14.286	-2.380	1.00	0.00
ATOM	255	HG2	PRO	16	6.012	15.199	-2.551	1.00	0.00
ATOM	256	HG3	PRO	16	4.742	14.137	-3.203	1.00	0.00
ATOM	257	CB	PRO	16	6.330	13.117	-2.224	1.00	0.00
ATOM	258	HB2	PRO	16	7.248	13.351	-1.686	1.00	0.00
ATOM	259	HB3	PRO	16	6.577	12.678	-3.191	1.00	0.00
ATOM	260	CA	PRO	16	5.475	12.130	-1.400	1.00	0.00
ATOM	261	HA	PRO	16	4.746	11.649	-2.052	1.00	0.00
ATOM	262	C	PRO	16	6.309	11.060	-0.690	1.00	0.00
ATOM	263	O	PRO	16	6.253	9.857	-1.014	1.00	0.00
ATOM	264	N	PHE	17	7.059	11.462	0.325	1.00	0.00
ATOM	265	H	PHE	17	7.083	12.432	0.607	1.00	0.00
ATOM	266	CA	PHE	17	7.956	10.512	1.008	1.00	0.00
ATOM	267	HA	PHE	17	8.525	9.956	0.263	1.00	0.00
ATOM	268	CB	PHE	17	8.945	11.240	1.942	1.00	0.00
ATOM	269	HB2	PHE	17	9.740	11.666	1.330	1.00	0.00

ATOM	270	HB3 PHE	17	8.457	12.035	2.507	1.00	0.00
ATOM	271	CG PHE	17	9.622	10.326	2.966	1.00	0.00
ATOM	272	CD1 PHE	17	10.603	9.394	2.561	1.00	0.00
ATOM	273	HD1 PHE	17	10.899	9.348	1.513	1.00	0.00
ATOM	274	CE1 PHE	17	11.195	8.532	3.496	1.00	0.00
ATOM	275	HE1 PHE	17	11.952	7.817	3.175	1.00	0.00
ATOM	276	CZ PHE	17	10.812	8.590	4.844	1.00	0.00
ATOM	277	HZ PHE	17	11.278	7.920	5.566	1.00	0.00
ATOM	278	CE2 PHE	17	9.840	9.500	5.263	1.00	0.00
ATOM	279	HE2 PHE	17	9.542	9.542	6.311	1.00	0.00
ATOM	280	CD2 PHE	17	9.248	10.359	4.334	1.00	0.00
ATOM	281	HD2 PHE	17	8.486	11.069	4.656	1.00	0.00
ATOM	282	C PHE	17	7.186	9.433	1.788	1.00	0.00
ATOM	283	O PHE	17	7.763	8.390	2.097	1.00	0.00
ATOM	284	N CYX	18	5.929	9.695	2.113	1.00	0.00
ATOM	285	H CYX	18	5.523	10.560	1.785	1.00	0.00
ATOM	286	CA CYX	18	5.108	8.809	2.890	1.00	0.00
ATOM	287	HA CYX	18	5.762	8.165	3.477	1.00	0.00
ATOM	288	CB CYX	18	4.185	9.510	3.810	1.00	0.00
ATOM	289	HB2 CYX	18	3.677	10.312	3.274	1.00	0.00
ATOM	290	HB3 CYX	18	3.447	8.805	4.192	1.00	0.00
ATOM	291	SG CYX	18	5.233	10.225	5.195	1.00	0.00

ATOM	292	C	CYX	18	4.210	7.937	1.936	1.00	0.00
ATOM	293	O	CYX	18	3.484	7.113	2.498	1.00	0.00
ATOM	294	N	ARG	19	4.252	8.121	0.600	1.00	0.00
ATOM	295	H	ARG	19	4.950	8.687	0.140	1.00	0.00
ATOM	296	CA	ARG	19	3.232	7.485	-0.218	1.00	0.00
ATOM	297	HA	ARG	19	2.263	7.654	0.252	1.00	0.00
ATOM	298	CB	ARG	19	3.179	8.006	-1.624	1.00	0.00
ATOM	299	HB2	ARG	19	4.190	8.108	-2.019	1.00	0.00
ATOM	300	HB3	ARG	19	2.611	7.319	-2.252	1.00	0.00
ATOM	301	CG	ARG	19	2.492	9.379	-1.619	1.00	0.00
ATOM	302	HG2	ARG	19	1.455	9.208	-1.328	1.00	0.00
ATOM	303	HG3	ARG	19	2.990	9.974	-0.854	1.00	0.00
ATOM	304	CD	ARG	19	2.528	10.109	-2.916	1.00	0.00
ATOM	305	HD2	ARG	19	3.561	10.236	-3.239	1.00	0.00
ATOM	306	HD3	ARG	19	1.978	9.547	-3.671	1.00	0.00
ATOM	307	NE	ARG	19	1.919	11.420	-2.778	1.00	0.00
ATOM	308	HE	ARG	19	1.224	11.504	-2.050	1.00	0.00
ATOM	309	CZ	ARG	19	2.227	12.492	-3.479	1.00	0.00
ATOM	310	NH1	ARG	19	3.175	12.462	-4.403	1.00	0.00
ATOM	311	HH11	ARG	19	3.676	11.604	-4.580	1.00	0.00
ATOM	312	HH12	ARG	19	3.392	13.298	-4.927	1.00	0.00
ATOM	313	NH2	ARG	19	1.517	13.624	-3.275	1.00	0.00



ATOM	314	HH21	ARG	19	0.769	13.632	-2.596	1.00	0.00
ATOM	315	HH22	ARG	19	1.737	14.457	-3.803	1.00	0.00
ATOM	316	C	ARG	19	3.526	5.963	-0.266	1.00	0.00
ATOM	317	O	ARG	19	2.616	5.214	-0.078	1.00	0.00
ATOM	318	N	CYX	20	4.794	5.648	-0.436	1.00	0.00
ATOM	319	H	CYX	20	5.494	6.341	-0.660	1.00	0.00
ATOM	320	CA	CYX	20	5.174	4.173	-0.546	1.00	0.00
ATOM	321	HA	CYX	20	4.428	3.679	-1.170	1.00	0.00
ATOM	322	CB	CYX	20	6.538	3.932	-1.143	1.00	0.00
ATOM	323	HB2	CYX	20	7.287	4.481	-0.572	1.00	0.00
ATOM	324	HB3	CYX	20	6.766	2.867	-1.112	1.00	0.00
ATOM	325	SG	CYX	20	6.556	4.299	-2.905	1.00	0.00
ATOM	326	C	CYX	20	4.928	3.463	0.771	1.00	0.00
ATOM	327	O	CYX	20	4.273	2.415	0.793	1.00	0.00
ATOM	328	N	PRO	21	5.364	4.018	1.902	1.00	0.00
ATOM	329	CD	PRO	21	6.453	4.995	2.069	1.00	0.00
ATOM	330	HD2	PRO	21	6.128	5.967	1.695	1.00	0.00
ATOM	331	HD3	PRO	21	7.326	4.664	1.507	1.00	0.00
ATOM	332	CG	PRO	21	6.689	4.998	3.527	1.00	0.00
ATOM	333	HG2	PRO	21	6.913	6.022	3.827	1.00	0.00
ATOM	334	HG3	PRO	21	7.552	4.364	3.727	1.00	0.00
ATOM	335	CB	PRO	21	5.539	4.508	4.185	1.00	0.00

ATOM	336	HB2 PRO	21	4.808	5.293	4.380	1.00	0.00
ATOM	337	HB3 PRO	21	5.795	4.010	5.120	1.00	0.00
ATOM	338	CA PRO	21	4.956	3.485	3.186	1.00	0.00
ATOM	339	HA PRO	21	5.428	2.507	3.278	1.00	0.00
ATOM	340	C PRO	21	3.476	3.346	3.384	1.00	0.00
ATOM	341	O PRO	21	2.992	2.310	3.922	1.00	0.00
ATOM	342	N SER	22	2.663	4.313	2.920	1.00	0.00
ATOM	343	H SER	22	3.048	5.121	2.451	1.00	0.00
ATOM	344	CA SER	22	1.298	4.272	3.142	1.00	0.00
ATOM	345	HA SER	22	1.113	3.988	4.178	1.00	0.00
ATOM	346	CB SER	22	0.634	5.633	2.880	1.00	0.00
ATOM	347	HB2 SER	22	0.916	6.035	1.906	1.00	0.00
ATOM	348	HB3 SER	22	-0.452	5.567	2.944	1.00	0.00
ATOM	349	OG SER	22	1.109	6.477	3.887	1.00	0.00
ATOM	350	HG SER	22	0.727	7.352	3.778	1.00	0.00
ATOM	351	C SER	22	0.594	3.149	2.276	1.00	0.00
ATOM	352	O SER	22	-0.343	2.581	2.721	1.00	0.00
ATOM	353	N LEU	23	1.110	3.016	1.078	1.00	0.00
ATOM	354	H LEU	23	1.851	3.640	0.790	1.00	0.00
ATOM	355	CA LEU	23	0.628	2.010	0.112	1.00	0.00
ATOM	356	HA LEU	23	-0.451	2.133	0.017	1.00	0.00
ATOM	357	CB LEU	23	1.244	2.106	-1.254	1.00	0.00

ATOM	358	HB2 LEU	23	2.251	2.484	-1.080	1.00	0.00
ATOM	359	HB3 LEU	23	1.298	1.173	-1.814	1.00	0.00
ATOM	360	CG LEU	23	0.439	3.143	-2.062	1.00	0.00
ATOM	361	HG LEU	23	0.290	4.056	-1.485	1.00	0.00
ATOM	362	CD1 LEU	23	1.238	3.450	-3.275	1.00	0.00
ATOM	363	HD11 LEU	23	1.386	2.538	-3.853	1.00	0.00
ATOM	364	HD12 LEU	23	0.708	4.183	-3.884	1.00	0.00
ATOM	365	HD13 LEU	23	2.206	3.855	-2.980	1.00	0.00
ATOM	366	CD2 LEU	23	-0.941	2.712	-2.335	1.00	0.00
ATOM	367	HD21 LEU	23	-1.464	2.548	-1.393	1.00	0.00
ATOM	368	HD22 LEU	23	-1.457	3.484	-2.907	1.00	0.00
ATOM	369	HD23 LEU	23	-0.926	1.785	-2.908	1.00	0.00
ATOM	370	C LEU	23	0.960	0.646	0.774	1.00	0.00
ATOM	371	O LEU	23	0.136	-0.246	0.593	1.00	0.00
ATOM	372	N ARG	24	2.121	0.485	1.338	1.00	0.00
ATOM	373	H ARG	24	2.813	1.220	1.365	1.00	0.00
ATOM	374	CA ARG	24	2.423	-0.814	2.057	1.00	0.00
ATOM	375	HA ARG	24	2.464	-1.634	1.341	1.00	0.00
ATOM	376	CB ARG	24	3.739	-0.722	2.754	1.00	0.00
ATOM	377	HB2 ARG	24	4.516	-0.597	2.000	1.00	0.00
ATOM	378	HB3 ARG	24	3.721	0.153	3.404	1.00	0.00
ATOM	379	CG ARG	24	4.033	-1.976	3.591	1.00	0.00

ATOM	380	HG2 ARG	24	3.269	-2.070	4.362	1.00	0.00
ATOM	381	HG3 ARG	24	4.000	-2.849	2.939	1.00	0.00
ATOM	382	CD ARG	24	5.402	-1.883	4.243	1.00	0.00
ATOM	383	HD2 ARG	24	5.388	-1.020	4.909	1.00	0.00
ATOM	384	HD3 ARG	24	5.547	-2.791	4.828	1.00	0.00
ATOM	385	NE ARG	24	6.521	-1.740	3.316	1.00	0.00
ATOM	386	HE ARG	24	6.799	-0.795	3.090	1.00	0.00
ATOM	387	CZ ARG	24	7.208	-2.756	2.774	1.00	0.00
ATOM	388	NH1 ARG	24	6.869	-4.047	2.981	1.00	0.00
ATOM	389	HH11 ARG	24	6.073	-4.270	3.561	1.00	0.00
ATOM	390	HH12 ARG	24	7.412	-4.783	2.554	1.00	0.00
ATOM	391	NH2 ARG	24	8.247	-2.469	1.981	1.00	0.00
ATOM	392	HH21 ARG	24	8.493	-1.505	1.806	1.00	0.00
ATOM	393	HH22 ARG	24	8.779	-3.217	1.561	1.00	0.00
ATOM	394	C ARG	24	1.368	-1.038	3.158	1.00	0.00
ATOM	395	O ARG	24	0.796	-2.175	3.329	1.00	0.00
ATOM	396	N GLN	25	1.062	-0.014	3.954	1.00	0.00
ATOM	397	H GLN	25	1.582	0.852	3.946	1.00	0.00
ATOM	398	CA GLN	25	-0.027	-0.170	4.948	1.00	0.00
ATOM	399	HA GLN	25	0.174	-1.035	5.580	1.00	0.00
ATOM	400	CB GLN	25	-0.135	1.090	5.851	1.00	0.00
ATOM	401	HB2 GLN	25	-0.353	1.953	5.221	1.00	0.00

ATOM	402	HB3	GLN	25	-0.951	0.943	6.558	1.00	0.00
ATOM	403	CG	GLN	25	1.168	1.335	6.619	1.00	0.00
ATOM	404	HG2	GLN	25	1.570	0.365	6.911	1.00	0.00
ATOM	405	HG3	GLN	25	1.886	1.848	5.978	1.00	0.00
ATOM	406	CD	GLN	25	0.952	2.174	7.880	1.00	0.00
ATOM	407	OE1	GLN	25	0.813	3.420	7.832	1.00	0.00
ATOM	408	NE2	GLN	25	0.950	1.495	9.029	1.00	0.00
ATOM	409	HE21	GLN	25	0.812	1.985	9.901	1.00	0.00
ATOM	410	HE22	GLN	25	1.085	0.495	9.021	1.00	0.00
ATOM	411	C	GLN	25	-1.388	-0.461	4.382	1.00	0.00
ATOM	412	O	GLN	25	-2.196	-1.228	4.900	1.00	0.00
ATOM	413	N	ALA	26	-1.709	0.069	3.154	1.00	0.00
ATOM	414	H	ALA	26	-1.077	0.715	2.702	1.00	0.00
ATOM	415	CA	ALA	26	-2.910	-0.258	2.497	1.00	0.00
ATOM	416	HA	ALA	26	-3.738	-0.029	3.168	1.00	0.00
ATOM	417	CB	ALA	26	-3.043	0.593	1.260	1.00	0.00
ATOM	418	HB1	ALA	26	-2.226	0.369	0.574	1.00	0.00
ATOM	419	HB2	ALA	26	-3.995	0.380	0.772	1.00	0.00
ATOM	420	HB3	ALA	26	-3.005	1.647	1.537	1.00	0.00
ATOM	421	C	ALA	26	-3.022	-1.762	2.043	1.00	0.00
ATOM	422	O	ALA	26	-4.150	-2.244	2.070	1.00	0.00
ATOM	423	N	VAL	27	-1.923	-2.258	1.595	1.00	0.00

ATOM	424	H	VAL	27	-1.107	-1.666	1.529	1.00	0.00
ATOM	425	CA	VAL	27	-1.803	-3.720	1.135	1.00	0.00
ATOM	426	HA	VAL	27	-2.578	-3.849	0.379	1.00	0.00
ATOM	427	CB	VAL	27	-0.497	-4.126	0.551	1.00	0.00
ATOM	428	HB	VAL	27	0.306	-3.867	1.240	1.00	0.00
ATOM	429	CG1	VAL	27	-0.495	-5.644	0.309	1.00	0.00
ATOM	430	HG11	VAL	27	-1.298	-5.903	-0.381	1.00	0.00
ATOM	431	HG12	VAL	27	0.461	-5.943	-0.119	1.00	0.00
ATOM	432	HG13	VAL	27	-0.648	-6.163	1.255	1.00	0.00
ATOM	433	CG2	VAL	27	-0.218	-3.465	-0.827	1.00	0.00
ATOM	434	HG21	VAL	27	-0.208	-2.380	-0.715	1.00	0.00
ATOM	435	HG22	VAL	27	0.749	-3.800	-1.202	1.00	0.00
ATOM	436	HG23	VAL	27	-0.999	-3.750	-1.532	1.00	0.00
ATOM	437	C	VAL	27	-2.076	-4.546	2.410	1.00	0.00
ATOM	438	O	VAL	27	-2.977	-5.420	2.374	1.00	0.00
ATOM	439	N	GLN	28	-1.444	-4.185	3.529	1.00	0.00
ATOM	440	H	GLN	28	-0.740	-3.461	3.523	1.00	0.00
ATOM	441	CA	GLN	28	-1.680	-4.922	4.787	1.00	0.00
ATOM	442	HA	GLN	28	-1.486	-5.985	4.649	1.00	0.00
ATOM	443	CB	GLN	28	-0.753	-4.399	5.838	1.00	0.00
ATOM	444	HB2	GLN	28	-0.876	-3.316	5.876	1.00	0.00
ATOM	445	HB3	GLN	28	-1.058	-4.832	6.791	1.00	0.00

ATOM	446	CG	GLN	28	0.641	-4.720	5.584	1.00	0.00
ATOM	447	HG2	GLN	28	0.805	-5.772	5.816	1.00	0.00
ATOM	448	HG3	GLN	28	0.892	-4.535	4.539	1.00	0.00
ATOM	449	CD	GLN	28	1.563	-3.875	6.465	1.00	0.00
ATOM	450	OE1	GLN	28	1.098	-3.093	7.278	1.00	0.00
ATOM	451	NE2	GLN	28	2.858	-4.021	6.282	1.00	0.00
ATOM	452	HE21	GLN	28	3.507	-3.485	6.839	1.00	0.00
ATOM	453	HE22	GLN	28	3.196	-4.668	5.584	1.00	0.00
ATOM	454	C	GLN	28	-3.105	-4.843	5.168	1.00	0.00
ATOM	455	O	GLN	28	-3.749	-5.823	5.615	1.00	0.00
ATOM	456	N	SER	29	-3.703	-3.635	5.165	1.00	0.00
ATOM	457	H	SER	29	-3.170	-2.801	4.964	1.00	0.00
ATOM	458	CA	SER	29	-5.085	-3.491	5.497	1.00	0.00
ATOM	459	HA	SER	29	-5.294	-3.922	6.476	1.00	0.00
ATOM	460	CB	SER	29	-5.420	-2.012	5.537	1.00	0.00
ATOM	461	HB2	SER	29	-5.214	-1.551	4.571	1.00	0.00
ATOM	462	HB3	SER	29	-6.471	-1.868	5.791	1.00	0.00
ATOM	463	OG	SER	29	-4.619	-1.419	6.516	1.00	0.00
ATOM	464	HG	SER	29	-4.812	-0.479	6.561	1.00	0.00
ATOM	465	C	SER	29	-6.095	-4.160	4.612	1.00	0.00
ATOM	466	O	SER	29	-7.185	-4.606	5.045	1.00	0.00
ATOM	467	N	ALA	30	-5.786	-4.180	3.307	1.00	0.00

ATOM	468	H	ALA	30	-5.000	-3.657	2.949	1.00	0.00
ATOM	469	CA	ALA	30	-6.624	-4.869	2.373	1.00	0.00
ATOM	470	HA	ALA	30	-7.634	-4.477	2.496	1.00	0.00
ATOM	471	CB	ALA	30	-6.169	-4.597	0.956	1.00	0.00
ATOM	472	HB1	ALA	30	-5.163	-4.992	0.815	1.00	0.00
ATOM	473	HB2	ALA	30	-6.851	-5.080	0.256	1.00	0.00
ATOM	474	HB3	ALA	30	-6.166	-3.522	0.775	1.00	0.00
ATOM	475	C	ALA	30	-6.687	-6.373	2.648	1.00	0.00
ATOM	476	O	ALA	30	-7.684	-6.972	2.430	1.00	0.00
ATOM	477	N	GLN	31	-5.629	-6.911	3.141	1.00	0.00
ATOM	478	H	GLN	31	-4.787	-6.369	3.271	1.00	0.00
ATOM	479	CA	GLN	31	-5.614	-8.368	3.542	1.00	0.00
ATOM	480	HA	GLN	31	-5.858	-8.995	2.684	1.00	0.00
ATOM	481	CB	GLN	31	-4.282	-8.737	4.029	1.00	0.00
ATOM	482	HB2	GLN	31	-4.018	-8.074	4.853	1.00	0.00
ATOM	483	HB3	GLN	31	-4.316	-9.766	4.387	1.00	0.00
ATOM	484	CG	GLN	31	-3.271	-8.621	2.961	1.00	0.00
ATOM	485	HG2	GLN	31	-3.600	-9.270	2.149	1.00	0.00
ATOM	486	HG3	GLN	31	-3.237	-7.589	2.609	1.00	0.00
ATOM	487	CD	GLN	31	-1.903	-9.029	3.370	1.00	0.00
ATOM	488	OE1	GLN	31	-0.945	-8.288	3.270	1.00	0.00
ATOM	489	NE2	GLN	31	-1.804	-10.259	3.813	1.00	0.00



ATOM	490	HE21	GLN	31	-0.907	-10.614	4.111	1.00	0.00
ATOM	491	HE22	GLN	31	-2.626	-10.845	3.854	1.00	0.00
ATOM	492	C	GLN	31	-6.603	-8.682	4.640	1.00	0.00
ATOM	493	O	GLN	31	-7.135	-9.764	4.672	1.00	0.00
ATOM	494	N	GLN	32	-6.892	-7.735	5.515	1.00	0.00
ATOM	495	H	GLN	32	-6.413	-6.846	5.481	1.00	0.00
ATOM	496	CA	GLN	32	-7.874	-7.944	6.553	1.00	0.00
ATOM	497	HA	GLN	32	-7.666	-8.875	7.080	1.00	0.00
ATOM	498	CB	GLN	32	-7.830	-6.788	7.562	1.00	0.00
ATOM	499	HB2	GLN	32	-7.963	-5.853	7.017	1.00	0.00
ATOM	500	HB3	GLN	32	-8.652	-6.917	8.266	1.00	0.00
ATOM	501	CG	GLN	32	-6.525	-6.749	8.315	1.00	0.00
ATOM	502	HG2	GLN	32	-5.999	-7.700	8.241	1.00	0.00
ATOM	503	HG3	GLN	32	-5.904	-5.957	7.896	1.00	0.00
ATOM	504	CD	GLN	32	-6.773	-6.448	9.767	1.00	0.00
ATOM	505	OE1	GLN	32	-7.120	-5.323	10.130	1.00	0.00
ATOM	506	NE2	GLN	32	-6.628	-7.459	10.602	1.00	0.00
ATOM	507	HE21	GLN	32	-6.781	-7.319	11.590	1.00	0.00
ATOM	508	HE22	GLN	32	-6.365	-8.368	10.249	1.00	0.00
ATOM	509	C	GLN	32	-9.284	-8.057	6.077	1.00	0.00
ATOM	510	O	GLN	32	-10.116	-8.718	6.722	1.00	0.00
ATOM	511	N	GLN	33	-9.573	-7.427	4.951	1.00	0.00

ATOM	512	H	GLN	33	-8.885	-6.827	4.519	1.00	0.00
ATOM	513	CA	GLN	33	-10.879	-7.519	4.342	1.00	0.00
ATOM	514	HA	GLN	33	-11.659	-7.502	5.103	1.00	0.00
ATOM	515	CB	GLN	33	-11.079	-6.316	3.408	1.00	0.00
ATOM	516	HB2	GLN	33	-10.484	-6.501	2.513	1.00	0.00
ATOM	517	HB3	GLN	33	-12.136	-6.288	3.141	1.00	0.00
ATOM	518	CG	GLN	33	-10.669	-4.962	4.028	1.00	0.00
ATOM	519	HG2	GLN	33	-11.072	-4.876	5.037	1.00	0.00
ATOM	520	HG3	GLN	33	-9.580	-4.934	4.068	1.00	0.00
ATOM	521	CD	GLN	33	-11.153	-3.784	3.213	1.00	0.00
ATOM	522	OE1	GLN	33	-10.436	-3.249	2.347	1.00	0.00
ATOM	523	NE2	GLN	33	-12.398	-3.386	3.463	1.00	0.00
ATOM	524	HE21	GLN	33	-12.787	-2.604	2.955	1.00	0.00
ATOM	525	HE22	GLN	33	-12.949	-3.867	4.159	1.00	0.00
ATOM	526	C	GLN	33	-11.032	-8.856	3.586	1.00	0.00
ATOM	527	O	GLN	33	-12.048	-9.088	2.973	1.00	0.00
ATOM	528	N	GLN	34	-9.992	-9.684	3.552	1.00	0.00
ATOM	529	H	GLN	34	-9.135	-9.415	4.013	1.00	0.00
ATOM	530	CA	GLN	34	-10.030	-10.973	2.852	1.00	0.00
ATOM	531	HA	GLN	34	-11.011	-11.140	2.406	1.00	0.00
ATOM	532	CB	GLN	34	-8.975	-10.958	1.729	1.00	0.00
ATOM	533	HB2	GLN	34	-7.997	-10.884	2.204	1.00	0.00

ATOM	534	HB3	GLN	34	-9.051	-11.908	1.200	1.00	0.00
ATOM	535	CG	GLN	34	-9.145	-9.821	0.749	1.00	0.00
ATOM	536	HG2	GLN	34	-10.150	-9.844	0.327	1.00	0.00
ATOM	537	HG3	GLN	34	-9.008	-8.895	1.308	1.00	0.00
ATOM	538	CD	GLN	34	-8.146	-9.854	-0.382	1.00	0.00
ATOM	539	OE1	GLN	34	-8.262	-10.638	-1.323	1.00	0.00
ATOM	540	NE2	GLN	34	-7.179	-8.973	-0.309	1.00	0.00
ATOM	541	HE21	GLN	34	-6.476	-8.939	-1.033	1.00	0.00
ATOM	542	HE22	GLN	34	-7.142	-8.332	0.470	1.00	0.00
ATOM	543	C	GLN	34	-9.764	-12.206	3.690	1.00	0.00
ATOM	544	O	GLN	34	-10.184	-13.303	3.303	1.00	0.00
ATOM	545	N	GLY	35	-8.997	-12.091	4.770	1.00	0.00
ATOM	546	H	GLY	35	-8.744	-11.188	5.145	1.00	0.00
ATOM	547	CA	GLY	35	-8.495	-13.293	5.449	1.00	0.00
ATOM	548	HA2	GLY	35	-7.920	-12.998	6.326	1.00	0.00
ATOM	549	HA3	GLY	35	-9.338	-13.911	5.758	1.00	0.00
ATOM	550	C	GLY	35	-7.597	-14.107	4.516	1.00	0.00
ATOM	551	O	GLY	35	-6.905	-13.524	3.691	1.00	0.00
ATOM	552	N	GLN	36	-7.643	-15.437	4.616	1.00	0.00
ATOM	553	H	GLN	36	-8.397	-15.863	5.136	1.00	0.00
ATOM	554	CA	GLN	36	-6.566	-16.307	4.105	1.00	0.00
ATOM	555	HA	GLN	36	-5.653	-16.089	4.658	1.00	0.00

ATOM	556	CB	GLN	36	-6.887	-17.821	4.253	1.00	0.00
ATOM	557	HB2	GLN	36	-7.967	-17.894	4.381	1.00	0.00
ATOM	558	HB3	GLN	36	-6.601	-18.288	3.311	1.00	0.00
ATOM	559	CG	GLN	36	-6.186	-18.537	5.412	1.00	0.00
ATOM	560	HG2	GLN	36	-6.452	-18.050	6.350	1.00	0.00
ATOM	561	HG3	GLN	36	-6.530	-19.571	5.429	1.00	0.00
ATOM	562	CD	GLN	36	-4.671	-18.531	5.273	1.00	0.00
ATOM	563	OE1	GLN	36	-4.103	-19.189	4.393	1.00	0.00
ATOM	564	NE2	GLN	36	-4.010	-17.770	6.137	1.00	0.00
ATOM	565	HE21	GLN	36	-3.002	-17.723	6.096	1.00	0.00
ATOM	566	HE22	GLN	36	-4.519	-17.241	6.831	1.00	0.00
ATOM	567	C	GLN	36	-6.186	-15.982	2.666	1.00	0.00
ATOM	568	O	GLN	36	-6.898	-16.291	1.717	1.00	0.00
ATOM	569	N	VAL	37	-5.045	-15.326	2.536	1.00	0.00
ATOM	570	H	VAL	37	-4.577	-14.999	3.368	1.00	0.00
ATOM	571	CA	VAL	37	-4.489	-14.970	1.254	1.00	0.00
ATOM	572	HA	VAL	37	-5.000	-15.447	0.417	1.00	0.00
ATOM	573	CB	VAL	37	-4.499	-13.411	1.027	1.00	0.00
ATOM	574	HB	VAL	37	-5.528	-13.111	0.828	1.00	0.00
ATOM	575	CG1	VAL	37	-3.965	-12.631	2.223	1.00	0.00
ATOM	576	HG11	VAL	37	-2.936	-12.929	2.422	1.00	0.00
ATOM	577	HG12	VAL	37	-3.998	-11.563	2.005	1.00	0.00

ATOM	578	HG13 VAL	37	-4.580	-12.841	3.098	1.00	0.00
ATOM	579	CG2 VAL	37	-3.754	-13.022	-0.220	1.00	0.00
ATOM	580	HG21 VAL	37	-4.219	-13.495	-1.085	1.00	0.00
ATOM	581	HG22 VAL	37	-3.785	-11.939	-0.340	1.00	0.00
ATOM	582	HG23 VAL	37	-2.717	-13.349	-0.142	1.00	0.00
ATOM	583	C VAL	37	-3.090	-15.617	1.252	1.00	0.00
ATOM	584	O VAL	37	-2.251	-15.386	2.142	1.00	0.00
ATOM	585	N GLY	38	-2.871	-16.438	0.256	1.00	0.00
ATOM	586	H GLY	38	-3.608	-16.712	-0.379	1.00	0.00
ATOM	587	CA GLY	38	-1.531	-16.983	0.040	1.00	0.00
ATOM	588	HA2 GLY	38	-1.292	-17.545	0.943	1.00	0.00
ATOM	589	HA3 GLY	38	-1.624	-17.670	-0.801	1.00	0.00
ATOM	590	C GLY	38	-0.409	-16.003	-0.244	1.00	0.00
ATOM	591	O GLY	38	-0.651	-14.859	-0.624	1.00	0.00
ATOM	592	N PRO	39	0.834	-16.437	-0.081	1.00	0.00
ATOM	593	CD PRO	39	1.250	-17.787	0.399	1.00	0.00
ATOM	594	HD2 PRO	39	0.728	-18.555	-0.172	1.00	0.00
ATOM	595	HD3 PRO	39	1.005	-17.891	1.456	1.00	0.00
ATOM	596	CG PRO	39	2.702	-17.791	0.156	1.00	0.00
ATOM	597	HG2 PRO	39	2.894	-18.261	-0.809	1.00	0.00
ATOM	598	HG3 PRO	39	3.187	-18.367	0.943	1.00	0.00
ATOM	599	CB PRO	39	3.162	-16.381	0.172	1.00	0.00

ATOM	600	HB2 PRO	39	4.031	-16.196	-0.460	1.00	0.00
ATOM	601	HB3 PRO	39	3.387	-16.080	1.195	1.00	0.00
ATOM	602	CA PRO	39	1.980	-15.603	-0.344	1.00	0.00
ATOM	603	HA PRO	39	1.890	-14.721	0.290	1.00	0.00
ATOM	604	C PRO	39	2.106	-15.176	-1.777	1.00	0.00
ATOM	605	O PRO	39	2.644	-14.026	-2.022	1.00	0.00
ATOM	606	N GLN	40	1.599	-15.931	-2.764	1.00	0.00
ATOM	607	H GLN	40	1.176	-16.831	-2.588	1.00	0.00
ATOM	608	CA GLN	40	1.728	-15.504	-4.099	1.00	0.00
ATOM	609	HA GLN	40	2.733	-15.117	-4.269	1.00	0.00
ATOM	610	CB GLN	40	1.488	-16.654	-5.044	1.00	0.00
ATOM	611	HB2 GLN	40	0.513	-17.092	-4.831	1.00	0.00
ATOM	612	HB3 GLN	40	1.501	-16.281	-6.068	1.00	0.00
ATOM	613	CG GLN	40	2.566	-17.712	-4.876	1.00	0.00
ATOM	614	HG2 GLN	40	3.547	-17.354	-5.188	1.00	0.00
ATOM	615	HG3 GLN	40	2.575	-17.906	-3.804	1.00	0.00
ATOM	616	CD GLN	40	2.266	-19.031	-5.613	1.00	0.00
ATOM	617	OE1 GLN	40	1.731	-19.998	-5.051	1.00	0.00
ATOM	618	NE2 GLN	40	2.505	-19.019	-6.843	1.00	0.00
ATOM	619	HE21 GLN	40	2.334	-19.847	-7.396	1.00	0.00
ATOM	620	HE22 GLN	40	2.867	-18.181	-7.276	1.00	0.00
ATOM	621	C GLN	40	0.750	-14.329	-4.320	1.00	0.00

ATOM	622	O	GLN	40	1.072	-13.326	-4.975	1.00	0.00
ATOM	623	N	GLN	41	-0.477	-14.495	-3.832	1.00	0.00
ATOM	624	H	GLN	41	-0.768	-15.382	-3.446	1.00	0.00
ATOM	625	CA	GLN	41	-1.466	-13.408	-3.905	1.00	0.00
ATOM	626	HA	GLN	41	-1.566	-13.085	-4.942	1.00	0.00
ATOM	627	CB	GLN	41	-2.824	-13.846	-3.403	1.00	0.00
ATOM	628	HB2	GLN	41	-3.087	-14.808	-3.842	1.00	0.00
ATOM	629	HB3	GLN	41	-2.805	-13.935	-2.317	1.00	0.00
ATOM	630	CG	GLN	41	-3.860	-12.803	-3.809	1.00	0.00
ATOM	631	HG2	GLN	41	-3.653	-11.910	-3.219	1.00	0.00
ATOM	632	HG3	GLN	41	-3.714	-12.581	-4.866	1.00	0.00
ATOM	633	CD	GLN	41	-5.294	-13.197	-3.595	1.00	0.00
ATOM	634	OE1	GLN	41	-5.644	-14.382	-3.486	1.00	0.00
ATOM	635	NE2	GLN	41	-6.146	-12.197	-3.548	1.00	0.00
ATOM	636	HE21	GLN	41	-7.129	-12.381	-3.407	1.00	0.00
ATOM	637	HE22	GLN	41	-5.814	-11.249	-3.653	1.00	0.00
ATOM	638	C	GLN	41	-1.040	-12.166	-3.138	1.00	0.00
ATOM	639	O	GLN	41	-1.195	-11.039	-3.640	1.00	0.00
ATOM	640	N	VAL	42	-0.433	-12.368	-2.001	1.00	0.00
ATOM	641	H	VAL	42	-0.311	-13.281	-1.587	1.00	0.00
ATOM	642	CA	VAL	42	0.108	-11.176	-1.267	1.00	0.00
ATOM	643	HA	VAL	42	-0.652	-10.422	-1.058	1.00	0.00

ATOM	644	CB	VAL	42	0.772	-11.582	0.053	1.00	0.00
ATOM	645	HB	VAL	42	1.434	-12.424	-0.148	1.00	0.00
ATOM	646	CG1	VAL	42	1.579	-10.435	0.678	1.00	0.00
ATOM	647	HG11	VAL	42	0.917	-9.592	0.879	1.00	0.00
ATOM	648	HG12	VAL	42	2.029	-10.773	1.611	1.00	0.00
ATOM	649	HG13	VAL	42	2.363	-10.124	-0.012	1.00	0.00
ATOM	650	CG2	VAL	42	-0.307	-12.100	0.965	1.00	0.00
ATOM	651	HG21	VAL	42	-0.792	-12.960	0.503	1.00	0.00
ATOM	652	HG22	VAL	42	0.133	-12.398	1.916	1.00	0.00
ATOM	653	HG23	VAL	42	-1.046	-11.316	1.136	1.00	0.00
ATOM	654	C	VAL	42	1.143	-10.472	-2.138	1.00	0.00
ATOM	655	O	VAL	42	1.159	-9.215	-2.234	1.00	0.00
ATOM	656	N	GLY	43	2.098	-11.184	-2.727	1.00	0.00
ATOM	657	H	GLY	43	2.170	-12.180	-2.580	1.00	0.00
ATOM	658	CA	GLY	43	3.034	-10.566	-3.573	1.00	0.00
ATOM	659	HA2	GLY	43	3.595	-9.842	-2.983	1.00	0.00
ATOM	660	HA3	GLY	43	3.711	-11.334	-3.945	1.00	0.00
ATOM	661	C	GLY	43	2.411	-9.867	-4.733	1.00	0.00
ATOM	662	O	GLY	43	2.802	-8.738	-5.008	1.00	0.00
ATOM	663	N	HIE	44	1.428	-10.415	-5.368	1.00	0.00
ATOM	664	H	HIE	44	1.252	-11.400	-5.232	1.00	0.00
ATOM	665	CA	HIE	44	0.663	-9.712	-6.386	1.00	0.00



ATOM	666	HA	HIE	44	1.326	-9.330	-7.162	1.00	0.00
ATOM	667	CB	HIE	44	-0.342	-10.681	-7.032	1.00	0.00
ATOM	668	HB2	HIE	44	0.068	-11.579	-7.495	1.00	0.00
ATOM	669	HB3	HIE	44	-0.988	-10.963	-6.200	1.00	0.00
ATOM	670	CG	HIE	44	-1.220	-10.037	-8.054	1.00	0.00
ATOM	671	ND1	HIE	44	-0.733	-9.640	-9.279	1.00	0.00
ATOM	672	CE1	HIE	44	-1.707	-9.093	-9.984	1.00	0.00
ATOM	673	HE1	HIE	44	-1.544	-8.765	-11.011	1.00	0.00
ATOM	674	NE2	HIE	44	-2.787	-9.052	-9.222	1.00	0.00
ATOM	675	HE2	HIE	44	-3.689	-8.687	-9.494	1.00	0.00
ATOM	676	CD2	HIE	44	-2.492	-9.587	-7.993	1.00	0.00
ATOM	677	HD2	HIE	44	-3.243	-9.583	-7.203	1.00	0.00
ATOM	678	C	HIE	44	0.008	-8.420	-5.882	1.00	0.00
ATOM	679	O	HIE	44	-0.002	-7.439	-6.604	1.00	0.00
ATOM	680	N	MET	45	-0.544	-8.426	-4.699	1.00	0.00
ATOM	681	H	MET	45	-0.652	-9.272	-4.159	1.00	0.00
ATOM	682	CA	MET	45	-1.150	-7.185	-4.182	1.00	0.00
ATOM	683	HA	MET	45	-1.855	-6.784	-4.911	1.00	0.00
ATOM	684	CB	MET	45	-1.894	-7.462	-2.889	1.00	0.00
ATOM	685	HB2	MET	45	-1.193	-7.924	-2.195	1.00	0.00
ATOM	686	HB3	MET	45	-2.227	-6.505	-2.486	1.00	0.00
ATOM	687	CG	MET	45	-3.098	-8.379	-3.082	1.00	0.00

ATOM	688	HG2 MET	45	-3.867	-7.785	-3.578	1.00	0.00
ATOM	689	HG3 MET	45	-2.777	-9.182	-3.745	1.00	0.00
ATOM	690	SD MET	45	-3.775	-9.087	-1.586	1.00	0.00
ATOM	691	CE MET	45	-3.977	-7.507	-0.711	1.00	0.00
ATOM	692	HE1 MET	45	-4.649	-6.861	-1.277	1.00	0.00
ATOM	693	HE2 MET	45	-4.397	-7.690	0.278	1.00	0.00
ATOM	694	HE3 MET	45	-3.007	-7.021	-0.609	1.00	0.00
ATOM	695	C MET	45	-0.110	-6.093	-4.040	1.00	0.00
ATOM	696	O MET	45	-0.375	-4.925	-4.300	1.00	0.00
ATOM	697	N TYR	46	1.083	-6.418	-3.586	1.00	0.00
ATOM	698	H TYR	46	1.263	-7.324	-3.179	1.00	0.00
ATOM	699	CA TYR	46	2.139	-5.439	-3.567	1.00	0.00
ATOM	700	HA TYR	46	1.779	-4.531	-3.082	1.00	0.00
ATOM	701	CB TYR	46	3.366	-5.949	-2.805	1.00	0.00
ATOM	702	HB2 TYR	46	3.545	-6.976	-3.121	1.00	0.00
ATOM	703	HB3 TYR	46	4.206	-5.324	-3.108	1.00	0.00
ATOM	704	CG TYR	46	3.222	-5.903	-1.322	1.00	0.00
ATOM	705	CD1 TYR	46	3.433	-4.740	-0.600	1.00	0.00
ATOM	706	HD1 TYR	46	3.826	-3.854	-1.099	1.00	0.00
ATOM	707	CE1 TYR	46	3.142	-4.701	0.769	1.00	0.00
ATOM	708	HE1 TYR	46	3.284	-3.757	1.296	1.00	0.00
ATOM	709	CZ TYR	46	2.930	-5.811	1.449	1.00	0.00

ATOM	710	OH	TYR	46	2.668	-5.812	2.849	1.00	0.00
ATOM	711	HH	TYR	46	2.664	-4.931	3.230	1.00	0.00
ATOM	712	CE2	TYR	46	2.716	-6.988	0.761	1.00	0.00
ATOM	713	HE2	TYR	46	2.432	-7.893	1.297	1.00	0.00
ATOM	714	CD2	TYR	46	2.860	-7.015	-0.586	1.00	0.00
ATOM	715	HD2	TYR	46	2.688	-7.941	-1.134	1.00	0.00
ATOM	716	C	TYR	46	2.557	-4.961	-4.941	1.00	0.00
ATOM	717	O	TYR	46	2.897	-3.768	-5.174	1.00	0.00
ATOM	718	N	ARG	47	2.578	-5.857	-5.918	1.00	0.00
ATOM	719	H	ARG	47	2.547	-6.840	-5.690	1.00	0.00
ATOM	720	CA	ARG	47	2.807	-5.480	-7.296	1.00	0.00
ATOM	721	HA	ARG	47	3.730	-4.906	-7.374	1.00	0.00
ATOM	722	CB	ARG	47	2.929	-6.726	-8.180	1.00	0.00
ATOM	723	HB2	ARG	47	3.662	-7.394	-7.728	1.00	0.00
ATOM	724	HB3	ARG	47	1.957	-7.219	-8.209	1.00	0.00
ATOM	725	CG	ARG	47	3.367	-6.379	-9.606	1.00	0.00
ATOM	726	HG2	ARG	47	2.766	-5.550	-9.981	1.00	0.00
ATOM	727	HG3	ARG	47	4.418	-6.093	-9.605	1.00	0.00
ATOM	728	CD	ARG	47	3.171	-7.602	-10.510	1.00	0.00
ATOM	729	HD2	ARG	47	3.951	-8.304	-10.216	1.00	0.00
ATOM	730	HD3	ARG	47	2.196	-8.007	-10.238	1.00	0.00
ATOM	731	NE	ARG	47	3.219	-7.427	-11.990	1.00	0.00

ATOM	732	HE	ARG	47	2.330	-7.269	-12.444	1.00	0.00
ATOM	733	CZ	ARG	47	4.326	-7.472	-12.747	1.00	0.00
ATOM	734	NH1	ARG	47	5.545	-7.631	-12.216	1.00	0.00
ATOM	735	HH11	ARG	47	5.648	-7.721	-11.216	1.00	0.00
ATOM	736	HH12	ARG	47	6.355	-7.660	-12.819	1.00	0.00
ATOM	737	NH2	ARG	47	4.219	-7.346	-14.066	1.00	0.00
ATOM	738	HH21	ARG	47	3.309	-7.218	-14.486	1.00	0.00
ATOM	739	HH22	ARG	47	5.048	-7.379	-14.642	1.00	0.00
ATOM	740	C	ARG	47	1.802	-4.496	-7.821	1.00	0.00
ATOM	741	O	ARG	47	2.169	-3.498	-8.464	1.00	0.00
ATOM	742	N	VAL	48	0.542	-4.741	-7.573	1.00	0.00
ATOM	743	H	VAL	48	0.297	-5.563	-7.041	1.00	0.00
ATOM	744	CA	VAL	48	-0.539	-3.842	-8.004	1.00	0.00
ATOM	745	HA	VAL	48	-0.515	-3.757	-9.091	1.00	0.00
ATOM	746	CB	VAL	48	-1.915	-4.374	-7.584	1.00	0.00
ATOM	747	HB	VAL	48	-1.869	-4.635	-6.527	1.00	0.00
ATOM	748	CG1	VAL	48	-3.004	-3.366	-7.803	1.00	0.00
ATOM	749	HG11	VAL	48	-3.051	-3.105	-8.860	1.00	0.00
ATOM	750	HG12	VAL	48	-3.959	-3.788	-7.491	1.00	0.00
ATOM	751	HG13	VAL	48	-2.795	-2.471	-7.217	1.00	0.00
ATOM	752	CG2	VAL	48	-2.173	-5.594	-8.448	1.00	0.00
ATOM	753	HG21	VAL	48	-1.394	-6.335	-8.272	1.00	0.00

ATOM	754	HG22	VAL	48	-3.144	-6.020	-8.195	1.00	0.00
ATOM	755	HG23	VAL	48	-2.167	-5.303	-9.499	1.00	0.00
ATOM	756	C	VAL	48	-0.287	-2.518	-7.291	1.00	0.00
ATOM	757	O	VAL	48	-0.340	-1.409	-7.926	1.00	0.00
ATOM	758	N	ALA	49	-0.120	-2.562	-5.962	1.00	0.00
ATOM	759	H	ALA	49	-0.147	-3.431	-5.448	1.00	0.00
ATOM	760	CA	ALA	49	0.054	-1.322	-5.215	1.00	0.00
ATOM	761	HA	ALA	49	-0.845	-0.720	-5.355	1.00	0.00
ATOM	762	CB	ALA	49	0.248	-1.576	-3.704	1.00	0.00
ATOM	763	HB1	ALA	49	1.149	-2.169	-3.548	1.00	0.00
ATOM	764	HB2	ALA	49	0.346	-0.623	-3.185	1.00	0.00
ATOM	765	HB3	ALA	49	-0.615	-2.115	-3.312	1.00	0.00
ATOM	766	C	ALA	49	1.218	-0.541	-5.734	1.00	0.00
ATOM	767	O	ALA	49	1.163	0.746	-5.764	1.00	0.00
ATOM	768	N	SER	50	2.317	-1.179	-6.123	1.00	0.00
ATOM	769	H	SER	50	2.372	-2.149	-5.847	1.00	0.00
ATOM	770	CA	SER	50	3.488	-0.563	-6.696	1.00	0.00
ATOM	771	HA	SER	50	3.837	0.234	-6.040	1.00	0.00
ATOM	772	CB	SER	50	4.638	-1.598	-6.877	1.00	0.00
ATOM	773	HB2	SER	50	5.600	-1.090	-6.936	1.00	0.00
ATOM	774	HB3	SER	50	4.649	-2.302	-6.046	1.00	0.00
ATOM	775	OG	SER	50	4.401	-2.292	-8.075	1.00	0.00

ATOM	776	HG	SER	50	5.096	-2.939	-8.213	1.00	0.00
ATOM	777	C	SER	50	3.250	0.292	-7.949	1.00	0.00
ATOM	778	O	SER	50	4.002	1.222	-8.190	1.00	0.00
ATOM	779	N	ARG	51	2.178	0.011	-8.667	1.00	0.00
ATOM	780	H	ARG	51	1.538	-0.700	-8.343	1.00	0.00
ATOM	781	CA	ARG	51	1.892	0.663	-9.891	1.00	0.00
ATOM	782	HA	ARG	51	2.832	0.963	-10.354	1.00	0.00
ATOM	783	CB	ARG	51	1.140	-0.208	-10.854	1.00	0.00
ATOM	784	HB2	ARG	51	0.271	-0.605	-10.329	1.00	0.00
ATOM	785	HB3	ARG	51	0.808	0.423	-11.679	1.00	0.00
ATOM	786	CG	ARG	51	1.982	-1.371	-11.406	1.00	0.00
ATOM	787	HG2	ARG	51	2.908	-0.966	-11.812	1.00	0.00
ATOM	788	HG3	ARG	51	2.212	-2.052	-10.587	1.00	0.00
ATOM	789	CD	ARG	51	1.245	-2.117	-12.486	1.00	0.00
ATOM	790	HD2	ARG	51	0.273	-2.426	-12.101	1.00	0.00
ATOM	791	HD3	ARG	51	1.102	-1.453	-13.339	1.00	0.00
ATOM	792	NE	ARG	51	1.984	-3.325	-12.941	1.00	0.00
ATOM	793	HE	ARG	51	1.892	-4.196	-12.438	1.00	0.00
ATOM	794	CZ	ARG	51	2.807	-3.278	-13.981	1.00	0.00
ATOM	795	NH1	ARG	51	2.959	-2.201	-14.656	1.00	0.00
ATOM	796	HH11	ARG	51	2.446	-1.370	-14.398	1.00	0.00
ATOM	797	HH12	ARG	51	3.590	-2.187	-15.444	1.00	0.00

ATOM	798	NH2	ARG	51	3.440	-4.367	-14.346	1.00	0.00
ATOM	799	HH21	ARG	51	3.296	-5.226	-13.835	1.00	0.00
ATOM	800	HH22	ARG	51	4.068	-4.341	-15.136	1.00	0.00
ATOM	801	C	ARG	51	1.059	1.906	-9.646	1.00	0.00
ATOM	802	O	ARG	51	0.912	2.722	-10.538	1.00	0.00
ATOM	803	N	ILE	52	0.467	2.043	-8.439	1.00	0.00
ATOM	804	H	ILE	52	0.595	1.358	-7.709	1.00	0.00
ATOM	805	CA	ILE	52	-0.519	3.065	-8.246	1.00	0.00
ATOM	806	HA	ILE	52	-1.197	3.158	-9.095	1.00	0.00
ATOM	807	CB	ILE	52	-1.335	2.792	-6.963	1.00	0.00
ATOM	808	HB	ILE	52	-0.648	2.568	-6.147	1.00	0.00
ATOM	809	CG2	ILE	52	-2.201	4.042	-6.587	1.00	0.00
ATOM	810	HG21	ILE	52	-2.889	4.267	-7.403	1.00	0.00
ATOM	811	HG22	ILE	52	-2.769	3.832	-5.681	1.00	0.00
ATOM	812	HG23	ILE	52	-1.549	4.899	-6.416	1.00	0.00
ATOM	813	CG1	ILE	52	-2.173	1.534	-7.165	1.00	0.00
ATOM	814	HG12	ILE	52	-2.851	1.705	-8.002	1.00	0.00
ATOM	815	HG13	ILE	52	-1.502	0.710	-7.405	1.00	0.00
ATOM	816	CD1	ILE	52	-2.982	1.185	-5.917	1.00	0.00
ATOM	817	HD11	ILE	52	-3.655	2.009	-5.677	1.00	0.00
ATOM	818	HD12	ILE	52	-3.566	0.283	-6.102	1.00	0.00
ATOM	819	HD13	ILE	52	-2.305	1.014	-5.081	1.00	0.00

ATOM	820	C	ILE	52	0.030	4.491	-8.324	1.00	0.00
ATOM	821	O	ILE	52	-0.623	5.334	-8.940	1.00	0.00
ATOM	822	N	PRO	53	1.181	4.720	-7.785	1.00	0.00
ATOM	823	CD	PRO	53	2.065	3.948	-6.867	1.00	0.00
ATOM	824	HD2	PRO	53	2.695	3.289	-7.464	1.00	0.00
ATOM	825	HD3	PRO	53	1.440	3.350	-6.204	1.00	0.00
ATOM	826	CG	PRO	53	2.865	4.999	-6.117	1.00	0.00
ATOM	827	HG2	PRO	53	3.842	4.625	-5.812	1.00	0.00
ATOM	828	HG3	PRO	53	2.329	5.369	-5.243	1.00	0.00
ATOM	829	CB	PRO	53	2.989	6.059	-7.151	1.00	0.00
ATOM	830	HB2	PRO	53	3.789	5.754	-7.825	1.00	0.00
ATOM	831	HB3	PRO	53	3.220	7.039	-6.734	1.00	0.00
ATOM	832	CA	PRO	53	1.698	6.113	-7.890	1.00	0.00
ATOM	833	HA	PRO	53	0.968	6.787	-7.440	1.00	0.00
ATOM	834	C	PRO	53	1.934	6.518	-9.346	1.00	0.00
ATOM	835	O	PRO	53	1.471	7.597	-9.724	1.00	0.00
ATOM	836	N	ALA	54	2.484	5.673	-10.234	1.00	0.00
ATOM	837	H	ALA	54	3.026	4.859	-9.984	1.00	0.00
ATOM	838	CA	ALA	54	2.437	6.073	-11.655	1.00	0.00
ATOM	839	HA	ALA	54	2.924	7.047	-11.600	1.00	0.00
ATOM	840	CB	ALA	54	3.275	5.164	-12.511	1.00	0.00
ATOM	841	HB1	ALA	54	2.795	4.188	-12.583	1.00	0.00



ATOM	842	HB2	ALA	54	3.375	5.594	-13.508	1.00	0.00
ATOM	843	HB3	ALA	54	4.262	5.051	-12.064	1.00	0.00
ATOM	844	C	ALA	54	1.131	6.256	-12.286	1.00	0.00
ATOM	845	O	ALA	54	0.949	7.167	-13.095	1.00	0.00
ATOM	846	N	ILE	55	0.149	5.429	-12.000	1.00	0.00
ATOM	847	H	ILE	55	0.370	4.619	-11.440	1.00	0.00
ATOM	848	CA	ILE	55	-1.184	5.537	-12.554	1.00	0.00
ATOM	849	HA	ILE	55	-1.192	5.629	-13.640	1.00	0.00
ATOM	850	CB	ILE	55	-2.044	4.372	-12.144	1.00	0.00
ATOM	851	HB	ILE	55	-1.887	4.203	-11.079	1.00	0.00
ATOM	852	CG2	ILE	55	-3.530	4.604	-12.408	1.00	0.00
ATOM	853	HG21	ILE	55	-3.689	4.773	-13.473	1.00	0.00
ATOM	854	HG22	ILE	55	-4.097	3.729	-12.091	1.00	0.00
ATOM	855	HG23	ILE	55	-3.867	5.477	-11.849	1.00	0.00
ATOM	856	CG1	ILE	55	-1.495	3.160	-12.828	1.00	0.00
ATOM	857	HG12	ILE	55	-1.697	3.250	-13.896	1.00	0.00
ATOM	858	HG13	ILE	55	-0.418	3.133	-12.663	1.00	0.00
ATOM	859	CD1	ILE	55	-2.099	1.923	-12.318	1.00	0.00
ATOM	860	HD11	ILE	55	-3.176	1.949	-12.483	1.00	0.00
ATOM	861	HD12	ILE	55	-1.673	1.068	-12.842	1.00	0.00
ATOM	862	HD13	ILE	55	-1.898	1.833	-11.251	1.00	0.00
ATOM	863	C	ILE	55	-1.763	6.918	-12.181	1.00	0.00

ATOM	864	O	ILE	55	-2.374	7.577	-13.022	1.00	0.00
ATOM	865	N	CYX	56	-1.549	7.255	-10.940	1.00	0.00
ATOM	866	H	CYX	56	-1.205	6.539	-10.317	1.00	0.00
ATOM	867	CA	CYX	56	-1.926	8.556	-10.367	1.00	0.00
ATOM	868	HA	CYX	56	-2.907	8.859	-10.734	1.00	0.00
ATOM	869	CB	CYX	56	-1.986	8.449	-8.841	1.00	0.00
ATOM	870	HB2	CYX	56	-0.981	8.302	-8.447	1.00	0.00
ATOM	871	HB3	CYX	56	-2.407	9.366	-8.428	1.00	0.00
ATOM	872	SG	CYX	56	-3.235	7.226	-8.244	1.00	0.00
ATOM	873	C	CYX	56	-1.140	9.735	-10.776	1.00	0.00
ATOM	874	O	CYX	56	-1.455	10.839	-10.352	1.00	0.00
ATOM	875	N	ASN	57	-0.003	9.508	-11.420	1.00	0.00
ATOM	876	H	ASN	57	0.276	8.550	-11.577	1.00	0.00
ATOM	877	CA	ASN	57	0.953	10.583	-11.768	1.00	0.00
ATOM	878	HA	ASN	57	1.819	10.183	-12.296	1.00	0.00
ATOM	879	CB	ASN	57	0.239	11.561	-12.681	1.00	0.00
ATOM	880	HB2	ASN	57	-0.770	11.224	-12.921	1.00	0.00
ATOM	881	HB3	ASN	57	0.186	12.501	-12.132	1.00	0.00
ATOM	882	CG	ASN	57	0.961	11.788	-13.924	1.00	0.00
ATOM	883	OD1	ASN	57	1.720	10.927	-14.384	1.00	0.00
ATOM	884	ND2	ASN	57	0.691	12.921	-14.539	1.00	0.00
ATOM	885	HD21	ASN	57	1.156	13.144	-15.408	1.00	0.00

ATOM	886	HD22	ASN	57	0.020	13.562	-14.140	1.00	0.00
ATOM	887	C	ASN	57	1.575	11.177	-10.560	1.00	0.00
ATOM	888	O	ASN	57	1.856	12.408	-10.544	1.00	0.00
ATOM	889	N	LEU	58	1.815	10.393	-9.510	1.00	0.00
ATOM	890	H	LEU	58	1.562	9.419	-9.597	1.00	0.00
ATOM	891	CA	LEU	58	2.300	10.848	-8.271	1.00	0.00
ATOM	892	HA	LEU	58	2.373	11.935	-8.323	1.00	0.00
ATOM	893	CB	LEU	58	1.434	10.475	-7.075	1.00	0.00
ATOM	894	HB2	LEU	58	1.376	9.387	-7.098	1.00	0.00
ATOM	895	HB3	LEU	58	1.970	10.792	-6.181	1.00	0.00
ATOM	896	CG	LEU	58	0.058	11.044	-7.055	1.00	0.00
ATOM	897	HG	LEU	58	-0.423	10.869	-8.018	1.00	0.00
ATOM	898	CD1	LEU	58	-0.758	10.368	-5.945	1.00	0.00
ATOM	899	HD11	LEU	58	-0.278	10.544	-4.982	1.00	0.00
ATOM	900	HD12	LEU	58	-1.766	10.784	-5.930	1.00	0.00
ATOM	901	HD13	LEU	58	-0.811	9.296	-6.134	1.00	0.00
ATOM	902	CD2	LEU	58	0.081	12.588	-6.821	1.00	0.00
ATOM	903	HD21	LEU	58	0.641	13.069	-7.623	1.00	0.00
ATOM	904	HD22	LEU	58	-0.940	12.970	-6.812	1.00	0.00
ATOM	905	HD23	LEU	58	0.557	12.804	-5.865	1.00	0.00
ATOM	906	C	LEU	58	3.708	10.369	-8.064	1.00	0.00
ATOM	907	O	LEU	58	4.060	9.166	-8.158	1.00	0.00

ATOM	908	N	GLN	59	4.586	11.233	-7.651	1.00	0.00
ATOM	909	H	GLN	59	4.344	12.213	-7.600	1.00	0.00
ATOM	910	CA	GLN	59	5.922	10.827	-7.227	1.00	0.00
ATOM	911	HA	GLN	59	6.360	10.164	-7.973	1.00	0.00
ATOM	912	CB	GLN	59	6.839	12.064	-7.065	1.00	0.00
ATOM	913	HB2	GLN	59	6.389	12.723	-6.322	1.00	0.00
ATOM	914	HB3	GLN	59	7.809	11.721	-6.706	1.00	0.00
ATOM	915	CG	GLN	59	7.015	12.797	-8.326	1.00	0.00
ATOM	916	HG2	GLN	59	6.019	12.899	-8.758	1.00	0.00
ATOM	917	HG3	GLN	59	7.415	13.786	-8.101	1.00	0.00
ATOM	918	CD	GLN	59	7.922	12.126	-9.347	1.00	0.00
ATOM	919	OE1	GLN	59	8.131	10.914	-9.350	1.00	0.00
ATOM	920	NE2	GLN	59	8.496	12.940	-10.210	1.00	0.00
ATOM	921	HE21	GLN	59	9.112	12.568	-10.918	1.00	0.00
ATOM	922	HE22	GLN	59	8.317	13.933	-10.159	1.00	0.00
ATOM	923	C	GLN	59	5.836	10.140	-5.904	1.00	0.00
ATOM	924	O	GLN	59	5.005	10.465	-5.088	1.00	0.00
ATOM	925	N	PRO	60	6.640	9.107	-5.684	1.00	0.00
ATOM	926	CD	PRO	60	6.654	8.386	-4.394	1.00	0.00
ATOM	927	HD2	PRO	60	5.672	7.952	-4.207	1.00	0.00
ATOM	928	HD3	PRO	60	6.904	9.079	-3.590	1.00	0.00
ATOM	929	CG	PRO	60	7.718	7.341	-4.603	1.00	0.00

ATOM	930	HG2 PRO	60	7.261	6.411	-4.940	1.00	0.00
ATOM	931	HG3 PRO	60	8.252	7.166	-3.670	1.00	0.00
ATOM	932	CB PRO	60	8.623	7.904	-5.633	1.00	0.00
ATOM	933	HB2 PRO	60	8.932	6.958	-6.077	1.00	0.00
ATOM	934	HB3 PRO	60	9.502	8.518	-5.439	1.00	0.00
ATOM	935	CA PRO	60	7.674	8.637	-6.581	1.00	0.00
ATOM	936	HA PRO	60	8.079	9.415	-7.229	1.00	0.00
ATOM	937	C PRO	60	6.900	7.653	-7.407	1.00	0.00
ATOM	938	O PRO	60	5.884	7.124	-6.953	1.00	0.00
ATOM	939	N MET	61	7.311	7.339	-8.562	1.00	0.00
ATOM	940	H MET	61	8.218	7.509	-8.971	1.00	0.00
ATOM	941	CA MET	61	6.249	6.769	-9.422	1.00	0.00
ATOM	942	HA MET	61	5.260	7.136	-9.147	1.00	0.00
ATOM	943	CB MET	61	6.556	7.222	-10.806	1.00	0.00
ATOM	944	HB2 MET	61	7.594	6.982	-11.033	1.00	0.00
ATOM	945	HB3 MET	61	5.901	6.697	-11.502	1.00	0.00
ATOM	946	CG MET	61	6.342	8.721	-10.943	1.00	0.00
ATOM	947	HG2 MET	61	6.303	9.150	-9.942	1.00	0.00
ATOM	948	HG3 MET	61	7.193	9.136	-11.483	1.00	0.00
ATOM	949	SD MET	61	4.861	9.124	-11.802	1.00	0.00
ATOM	950	CE MET	61	5.012	8.473	-13.375	1.00	0.00
ATOM	951	HE1 MET	61	5.140	7.393	-13.311	1.00	0.00

ATOM	952	HE2 MET	61	4.113	8.698	-13.950	1.00	0.00
ATOM	953	HE3 MET	61	5.878	8.913	-13.869	1.00	0.00
ATOM	954	C MET	61	6.113	5.221	-9.274	1.00	0.00
ATOM	955	O MET	61	5.172	4.589	-9.762	1.00	0.00
ATOM	956	N ARG	62	6.986	4.664	-8.475	1.00	0.00
ATOM	957	H ARG	62	7.702	5.225	-8.036	1.00	0.00
ATOM	958	CA ARG	62	6.972	3.237	-8.214	1.00	0.00
ATOM	959	HA ARG	62	5.953	2.859	-8.298	1.00	0.00
ATOM	960	CB ARG	62	7.858	2.490	-9.225	1.00	0.00
ATOM	961	HB2 ARG	62	7.401	2.645	-10.203	1.00	0.00
ATOM	962	HB3 ARG	62	8.831	2.980	-9.198	1.00	0.00
ATOM	963	CG ARG	62	8.036	0.977	-8.974	1.00	0.00
ATOM	964	HG2 ARG	62	8.811	0.645	-9.665	1.00	0.00
ATOM	965	HG3 ARG	62	8.397	0.881	-7.950	1.00	0.00
ATOM	966	CD ARG	62	6.783	0.111	-9.157	1.00	0.00
ATOM	967	HD2 ARG	62	7.019	-0.910	-8.857	1.00	0.00
ATOM	968	HD3 ARG	62	5.992	0.504	-8.518	1.00	0.00
ATOM	969	NE ARG	62	6.298	0.094	-10.554	1.00	0.00
ATOM	970	HE ARG	62	6.388	0.978	-11.035	1.00	0.00
ATOM	971	CZ ARG	62	5.758	-0.944	-11.216	1.00	0.00
ATOM	972	NH1 ARG	62	5.572	-2.154	-10.656	1.00	0.00
ATOM	973	HH11 ARG	62	5.843	-2.310	-9.696	1.00	0.00

ATOM	974	HH12	ARG	62	5.161	-2.900	-11.199	1.00	0.00
ATOM	975	NH2	ARG	62	5.403	-0.760	-12.496	1.00	0.00
ATOM	976	HH21	ARG	62	5.545	0.140	-12.932	1.00	0.00
ATOM	977	HH22	ARG	62	4.995	-1.522	-13.018	1.00	0.00
ATOM	978	C	ARG	62	7.478	3.044	-6.800	1.00	0.00
ATOM	979	O	ARG	62	8.259	3.857	-6.252	1.00	0.00
ATOM	980	N	CYX	63	6.953	2.021	-6.161	1.00	0.00
ATOM	981	H	CYX	63	6.260	1.456	-6.631	1.00	0.00
ATOM	982	CA	CYX	63	7.365	1.635	-4.857	1.00	0.00
ATOM	983	HA	CYX	63	7.962	2.425	-4.401	1.00	0.00
ATOM	984	CB	CYX	63	6.156	1.391	-4.000	1.00	0.00
ATOM	985	HB2	CYX	63	5.501	0.671	-4.491	1.00	0.00
ATOM	986	HB3	CYX	63	6.469	0.997	-3.034	1.00	0.00
ATOM	987	SG	CYX	63	5.225	2.941	-3.878	1.00	0.00
ATOM	988	C	CYX	63	8.133	0.300	-4.954	1.00	0.00
ATOM	989	O	CYX	63	7.560	-0.721	-5.378	1.00	0.00
ATOM	990	N	PRO	64	9.399	0.300	-4.537	1.00	0.00
ATOM	991	CD	PRO	64	10.060	1.318	-3.691	1.00	0.00
ATOM	992	HD2	PRO	64	9.338	1.715	-2.976	1.00	0.00
ATOM	993	HD3	PRO	64	10.426	2.127	-4.323	1.00	0.00
ATOM	994	CG	PRO	64	11.170	0.563	-3.029	1.00	0.00
ATOM	995	HG2	PRO	64	10.861	0.287	-2.021	1.00	0.00

ATOM	996	HG3	PRO	64	12.052	1.201	-2.977	1.00	0.00
ATOM	997	CB	PRO	64	11.435	-0.652	-3.874	1.00	0.00
ATOM	998	HB2	PRO	64	11.798	-1.479	-3.264	1.00	0.00
ATOM	999	HB3	PRO	64	12.160	-0.433	-4.658	1.00	0.00
ATOM	1000	CA	PRO	64	10.093	-1.017	-4.495	1.00	0.00
ATOM	1001	HA	PRO	64	10.161	-1.358	-5.528	1.00	0.00
ATOM	1002	C	PRO	64	9.412	-2.114	-3.632	1.00	0.00
ATOM	1003	O	PRO	64	9.304	-3.303	-4.037	1.00	0.00
ATOM	1004	N	PHE	65	8.987	-1.718	-2.441	1.00	0.00
ATOM	1005	H	PHE	65	8.997	-0.732	-2.221	1.00	0.00
ATOM	1006	CA	PHE	65	8.629	-2.654	-1.392	1.00	0.00
ATOM	1007	HA	PHE	65	8.535	-2.131	-0.440	1.00	0.00
ATOM	1008	CB	PHE	65	7.282	-3.321	-1.722	1.00	0.00
ATOM	1009	HB2	PHE	65	7.342	-3.858	-2.669	1.00	0.00
ATOM	1010	HB3	PHE	65	7.005	-4.014	-0.928	1.00	0.00
ATOM	1011	CG	PHE	65	6.128	-2.327	-1.856	1.00	0.00
ATOM	1012	CD1	PHE	65	5.928	-1.330	-0.892	1.00	0.00
ATOM	1013	HD1	PHE	65	6.618	-1.263	-0.051	1.00	0.00
ATOM	1014	CE1	PHE	65	4.887	-0.449	-0.994	1.00	0.00
ATOM	1015	HE1	PHE	65	4.737	0.333	-0.249	1.00	0.00
ATOM	1016	CZ	PHE	65	4.030	-0.559	-2.047	1.00	0.00
ATOM	1017	HZ	PHE	65	3.189	0.131	-2.118	1.00	0.00



ATOM	1018	CE2 PHE	65	4.209	-1.503	-2.994	1.00	0.00
ATOM	1019	HE2 PHE	65	3.506	-1.570	-3.825	1.00	0.00
ATOM	1020	CD2 PHE	65	5.266	-2.375	-2.918	1.00	0.00
ATOM	1021	HD2 PHE	65	5.423	-3.111	-3.706	1.00	0.00
ATOM	1022	C PHE	65	9.744	-3.699	-1.100	1.00	0.00
ATOM	1023	O PHE	65	9.438	-4.792	-0.653	1.00	0.00
ATOM	1024	OXT PHE	65	10.922	-3.426	-1.318	1.00	0.00

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ATOM	1025	N GLN	66	4.699	8.695	14.347	1.00	0.00
ATOM	1026	H1 GLN	66	3.722	8.879	14.165	1.00	0.00
ATOM	1027	H2 GLN	66	5.072	9.448	14.907	1.00	0.00
ATOM	1028	H3 GLN	66	4.797	7.739	14.656	1.00	0.00
ATOM	1029	CA GLN	66	5.437	8.768	13.044	1.00	0.00
ATOM	1030	HA GLN	66	6.191	9.553	13.104	1.00	0.00
ATOM	1031	CB GLN	66	6.124	7.462	12.712	1.00	0.00
ATOM	1032	HB2 GLN	66	6.548	7.083	13.641	1.00	0.00
ATOM	1033	HB3 GLN	66	5.351	6.779	12.361	1.00	0.00
ATOM	1034	CG GLN	66	7.211	7.570	11.670	1.00	0.00
ATOM	1035	HG2 GLN	66	7.381	8.631	11.485	1.00	0.00
ATOM	1036	HG3 GLN	66	8.125	7.117	12.052	1.00	0.00
ATOM	1037	CD GLN	66	6.859	6.916	10.385	1.00	0.00
ATOM	1038	OE1 GLN	66	5.580	6.786	10.128	1.00	0.00

ATOM	1039	NE2	GLN	66	7.740	6.504	9.628	1.00	0.00
ATOM	1040	HE21	GLN	66	7.486	6.061	8.756	1.00	0.00
ATOM	1041	HE22	GLN	66	8.711	6.612	9.883	1.00	0.00
ATOM	1042	C	GLN	66	4.576	9.225	11.881	1.00	0.00
ATOM	1043	O	GLN	66	3.375	8.941	11.795	1.00	0.00
ATOM	1044	N	ARG	67	5.237	9.974	11.003	1.00	0.00
ATOM	1045	H	ARG	67	6.242	9.901	10.943	1.00	0.00
ATOM	1046	CA	ARG	67	4.570	10.926	10.154	1.00	0.00
ATOM	1047	HA	ARG	67	3.911	11.571	10.735	1.00	0.00
ATOM	1048	CB	ARG	67	5.649	11.807	9.469	1.00	0.00
ATOM	1049	HB2	ARG	67	6.254	12.215	10.278	1.00	0.00
ATOM	1050	HB3	ARG	67	6.253	11.124	8.872	1.00	0.00
ATOM	1051	CG	ARG	67	5.149	12.944	8.587	1.00	0.00
ATOM	1052	HG2	ARG	67	6.017	13.441	8.153	1.00	0.00
ATOM	1053	HG3	ARG	67	4.543	12.512	7.791	1.00	0.00
ATOM	1054	CD	ARG	67	4.317	13.961	9.364	1.00	0.00
ATOM	1055	HD2	ARG	67	3.992	13.501	10.297	1.00	0.00
ATOM	1056	HD3	ARG	67	4.945	14.824	9.585	1.00	0.00
ATOM	1057	NE	ARG	67	3.127	14.420	8.624	1.00	0.00
ATOM	1058	HE	ARG	67	3.226	14.457	7.619	1.00	0.00
ATOM	1059	CZ	ARG	67	1.954	14.789	9.166	1.00	0.00
ATOM	1060	NH1	ARG	67	1.747	14.752	10.488	1.00	0.00

ATOM	1061	HH11	ARG	67	2.485	14.441	11.103	1.00	0.00
ATOM	1062	HH12	ARG	67	0.853	15.036	10.864	1.00	0.00
ATOM	1063	NH2	ARG	67	0.960	15.199	8.372	1.00	0.00
ATOM	1064	HH21	ARG	67	1.096	15.229	7.371	1.00	0.00
ATOM	1065	HH22	ARG	67	0.077	15.477	8.776	1.00	0.00
ATOM	1066	C	ARG	67	3.708	10.140	9.123	1.00	0.00
ATOM	1067	O	ARG	67	2.511	10.400	8.951	1.00	0.00
ATOM	1068	N	CYX	68	4.363	9.174	8.516	1.00	0.00
ATOM	1069	H	CYX	68	5.323	8.968	8.753	1.00	0.00
ATOM	1070	CA	CYX	68	3.714	8.379	7.420	1.00	0.00
ATOM	1071	HA	CYX	68	3.350	9.048	6.639	1.00	0.00
ATOM	1072	CB	CYX	68	4.692	7.445	6.824	1.00	0.00
ATOM	1073	HB2	CYX	68	5.106	6.806	7.603	1.00	0.00
ATOM	1074	HB3	CYX	68	4.196	6.828	6.075	1.00	0.00
ATOM	1075	SG	CYX	68	6.061	8.383	6.055	1.00	0.00
ATOM	1076	C	CYX	68	2.538	7.637	7.978	1.00	0.00
ATOM	1077	O	CYX	68	1.445	7.624	7.384	1.00	0.00
ATOM	1078	N	ARG	69	2.670	7.095	9.199	1.00	0.00
ATOM	1079	H	ARG	69	3.524	7.102	9.738	1.00	0.00
ATOM	1080	CA	ARG	69	1.495	6.364	9.747	1.00	0.00
ATOM	1081	HA	ARG	69	1.125	5.661	9.000	1.00	0.00
ATOM	1082	CB	ARG	69	1.870	5.577	11.024	1.00	0.00

ATOM	1083	HB2	ARG	69	2.257	6.271	11.770	1.00	0.00
ATOM	1084	HB3	ARG	69	0.979	5.085	11.414	1.00	0.00
ATOM	1085	CG	ARG	69	2.915	4.546	10.710	1.00	0.00
ATOM	1086	HG2	ARG	69	2.593	4.005	9.820	1.00	0.00
ATOM	1087	HG3	ARG	69	3.847	5.069	10.499	1.00	0.00
ATOM	1088	CD	ARG	69	3.130	3.572	11.840	1.00	0.00
ATOM	1089	HD2	ARG	69	2.201	3.046	12.062	1.00	0.00
ATOM	1090	HD3	ARG	69	3.900	2.850	11.570	1.00	0.00
ATOM	1091	NE	ARG	69	3.562	4.292	13.043	1.00	0.00
ATOM	1092	HE	ARG	69	2.820	4.620	13.645	1.00	0.00
ATOM	1093	CZ	ARG	69	4.828	4.533	13.400	1.00	0.00
ATOM	1094	NH1	ARG	69	5.867	4.120	12.663	1.00	0.00
ATOM	1095	HH11	ARG	69	5.703	3.609	11.807	1.00	0.00
ATOM	1096	HH12	ARG	69	6.809	4.322	12.966	1.00	0.00
ATOM	1097	NH2	ARG	69	5.043	5.217	14.524	1.00	0.00
ATOM	1098	HH21	ARG	69	4.259	5.535	15.075	1.00	0.00
ATOM	1099	HH22	ARG	69	5.988	5.414	14.818	1.00	0.00
ATOM	1100	C	ARG	69	0.378	7.258	10.017	1.00	0.00
ATOM	1101	O	ARG	69	-0.776	6.944	9.788	1.00	0.00
ATOM	1102	N	HIE	70	0.681	8.437	10.532	1.00	0.00
ATOM	1103	H	HIE	70	1.631	8.693	10.761	1.00	0.00
ATOM	1104	CA	HIE	70	-0.335	9.366	10.783	1.00	0.00

ATOM	1105	HA	HIE	70	-1.098	8.913	11.417	1.00	0.00
ATOM	1106	CB	HIE	70	0.222	10.605	11.496	1.00	0.00
ATOM	1107	HB2	HIE	70	0.694	10.368	12.449	1.00	0.00
ATOM	1108	HB3	HIE	70	0.948	11.084	10.840	1.00	0.00
ATOM	1109	CG	HIE	70	-0.836	11.629	11.785	1.00	0.00
ATOM	1110	ND1	HIE	70	-1.964	11.345	12.535	1.00	0.00
ATOM	1111	CE1	HIE	70	-2.728	12.422	12.598	1.00	0.00
ATOM	1112	HE1	HIE	70	-3.667	12.405	13.151	1.00	0.00
ATOM	1113	NE2	HIE	70	-2.142	13.391	11.912	1.00	0.00
ATOM	1114	HE2	HIE	70	-2.498	14.329	11.789	1.00	0.00
ATOM	1115	CD2	HIE	70	-0.963	12.920	11.387	1.00	0.00
ATOM	1116	HD2	HIE	70	-0.339	13.574	10.778	1.00	0.00
ATOM	1117	C	HIE	70	-1.017	9.833	9.484	1.00	0.00
ATOM	1118	O	HIE	70	-2.205	9.963	9.454	1.00	0.00
ATOM	1119	N	GLN	71	-0.251	10.038	8.442	1.00	0.00
ATOM	1120	H	GLN	71	0.750	9.907	8.460	1.00	0.00
ATOM	1121	CA	GLN	71	-0.869	10.493	7.196	1.00	0.00
ATOM	1122	HA	GLN	71	-1.481	11.381	7.357	1.00	0.00
ATOM	1123	CB	GLN	71	0.236	10.839	6.253	1.00	0.00
ATOM	1124	HB2	GLN	71	0.988	10.051	6.291	1.00	0.00
ATOM	1125	HB3	GLN	71	-0.172	10.903	5.244	1.00	0.00
ATOM	1126	CG	GLN	71	0.877	12.171	6.627	1.00	0.00

ATOM	1127	HG2	GLN	71	0.079	12.912	6.690	1.00	0.00
ATOM	1128	HG3	GLN	71	1.452	12.178	7.552	1.00	0.00
ATOM	1129	CD	GLN	71	1.761	12.532	5.526	1.00	0.00
ATOM	1130	OE1	GLN	71	1.274	12.737	4.450	1.00	0.00
ATOM	1131	NE2	GLN	71	3.033	12.520	5.733	1.00	0.00
ATOM	1132	HE21	GLN	71	3.665	12.767	4.985	1.00	0.00
ATOM	1133	HE22	GLN	71	3.391	12.265	6.642	1.00	0.00
ATOM	1134	C	GLN	71	-1.778	9.412	6.564	1.00	0.00
ATOM	1135	O	GLN	71	-2.850	9.713	6.062	1.00	0.00
ATOM	1136	N	PHE	72	-1.362	8.168	6.683	1.00	0.00
ATOM	1137	H	PHE	72	-0.445	7.978	7.060	1.00	0.00
ATOM	1138	CA	PHE	72	-2.176	7.041	6.244	1.00	0.00
ATOM	1139	HA	PHE	72	-2.389	7.113	5.177	1.00	0.00
ATOM	1140	CB	PHE	72	-1.396	5.731	6.505	1.00	0.00
ATOM	1141	HB2	PHE	72	-0.509	5.637	5.879	1.00	0.00
ATOM	1142	HB3	PHE	72	-1.104	5.712	7.555	1.00	0.00
ATOM	1143	CG	PHE	72	-2.217	4.509	6.268	1.00	0.00
ATOM	1144	CD1	PHE	72	-2.479	4.083	4.948	1.00	0.00
ATOM	1145	HD1	PHE	72	-2.064	4.637	4.106	1.00	0.00
ATOM	1146	CE1	PHE	72	-3.262	2.965	4.722	1.00	0.00
ATOM	1147	HE1	PHE	72	-3.500	2.689	3.694	1.00	0.00
ATOM	1148	CZ	PHE	72	-3.741	2.203	5.770	1.00	0.00

ATOM	1149	HZ PHE	72	-4.316	1.296	5.585	1.00	0.00
ATOM	1150	CE2 PHE	72	-3.475	2.617	7.104	1.00	0.00
ATOM	1151	HE2 PHE	72	-3.886	2.059	7.945	1.00	0.00
ATOM	1152	CD2 PHE	72	-2.690	3.735	7.332	1.00	0.00
ATOM	1153	HD2 PHE	72	-2.433	4.022	8.351	1.00	0.00
ATOM	1154	C PHE	72	-3.530	6.990	6.951	1.00	0.00
ATOM	1155	O PHE	72	-4.571	6.977	6.351	1.00	0.00
ATOM	1156	N GLN	73	-3.489	7.133	8.295	1.00	0.00
ATOM	1157	H GLN	73	-2.677	6.633	8.626	1.00	0.00
ATOM	1158	CA GLN	73	-4.691	7.107	9.105	1.00	0.00
ATOM	1159	HA GLN	73	-4.223	7.318	10.066	1.00	0.00
ATOM	1160	CB GLN	73	-3.600	7.008	8.043	1.00	0.00
ATOM	1161	HB2 GLN	73	-2.916	6.199	8.299	1.00	0.00
ATOM	1162	HB3 GLN	73	-4.054	6.806	7.073	1.00	0.00
ATOM	1163	CG GLN	73	-2.831	8.323	7.980	1.00	0.00
ATOM	1164	HG2 GLN	73	-3.514	9.132	7.724	1.00	0.00
ATOM	1165	HG3 GLN	73	-2.376	8.525	8.950	1.00	0.00
ATOM	1166	CD GLN	73	-1.731	8.264	6.930	1.00	0.00
ATOM	1167	OE1 GLN	73	-1.557	7.246	6.265	1.00	0.00
ATOM	1168	NE2 GLN	73	-0.986	9.363	6.783	1.00	0.00
ATOM	1169	HE21 GLN	73	-0.242	9.377	6.099	1.00	0.00
ATOM	1170	HE22 GLN	73	-1.170	10.174	7.355	1.00	0.00

ATOM	1171	C	GLN	73	-5.604	8.290	8.732	1.00	0.00
ATOM	1172	O	GLN	73	-6.826	8.167	8.540	1.00	0.00
ATOM	1173	N	THR	74	-4.984	9.464	8.573	1.00	0.00
ATOM	1174	H	THR	74	-3.989	9.537	8.726	1.00	0.00
ATOM	1175	CA	THR	74	-5.709	10.655	8.240	1.00	0.00
ATOM	1176	HA	THR	74	-6.577	10.807	8.881	1.00	0.00
ATOM	1177	CB	THR	74	-4.800	11.891	8.342	1.00	0.00
ATOM	1178	HB	THR	74	-3.950	11.767	7.672	1.00	0.00
ATOM	1179	CG2	THR	74	-5.571	13.139	7.953	1.00	0.00
ATOM	1180	HG21	THR	74	-6.422	13.265	8.623	1.00	0.00
ATOM	1181	HG22	THR	74	-4.918	14.009	8.028	1.00	0.00
ATOM	1182	HG23	THR	74	-5.928	13.042	6.927	1.00	0.00
ATOM	1183	OG1	THR	74	-4.271	11.979	9.666	1.00	0.00
ATOM	1184	HG1	THR	74	-3.703	12.750	9.733	1.00	0.00
ATOM	1185	C	THR	74	-6.342	10.648	6.857	1.00	0.00
ATOM	1186	O	THR	74	-7.490	11.137	6.665	1.00	0.00
ATOM	1187	N	GLN	75	-5.659	10.003	5.890	1.00	0.00
ATOM	1188	H	GLN	75	-4.706	9.695	6.015	1.00	0.00
ATOM	1189	CA	GLN	75	-6.262	9.888	4.544	1.00	0.00
ATOM	1190	HA	GLN	75	-7.021	10.658	4.403	1.00	0.00
ATOM	1191	CB	GLN	75	-5.178	10.069	3.480	1.00	0.00
ATOM	1192	HB2	GLN	75	-4.458	9.264	3.622	1.00	0.00



ATOM	1193	HB3	GLN	75	-5.664	9.955	2.511	1.00	0.00
ATOM	1194	CG	GLN	75	-4.467	11.391	3.531	1.00	0.00
ATOM	1195	HG2	GLN	75	-3.893	11.425	4.457	1.00	0.00
ATOM	1196	HG3	GLN	75	-3.790	11.471	2.680	1.00	0.00
ATOM	1197	CD	GLN	75	-5.427	12.586	3.506	1.00	0.00
ATOM	1198	OE1	GLN	75	-6.449	12.558	2.832	1.00	0.00
ATOM	1199	NE2	GLN	75	-5.081	13.599	4.208	1.00	0.00
ATOM	1200	HE21	GLN	75	-5.672	14.418	4.233	1.00	0.00
ATOM	1201	HE22	GLN	75	-4.219	13.575	4.734	1.00	0.00
ATOM	1202	C	GLN	75	-7.086	8.595	4.367	1.00	0.00
ATOM	1203	O	GLN	75	-7.046	7.859	3.341	1.00	0.00
ATOM	1204	N	GLN	76	-7.919	8.321	5.362	1.00	0.00
ATOM	1205	H	GLN	76	-7.779	8.758	6.262	1.00	0.00
ATOM	1206	CA	GLN	76	-8.951	7.313	5.241	1.00	0.00
ATOM	1207	HA	GLN	76	-9.485	7.238	6.188	1.00	0.00
ATOM	1208	CB	GLN	76	-9.964	7.648	4.131	1.00	0.00
ATOM	1209	HB2	GLN	76	-9.629	7.068	3.271	1.00	0.00
ATOM	1210	HB3	GLN	76	-10.910	7.246	4.494	1.00	0.00
ATOM	1211	CG	GLN	76	-10.158	9.118	3.713	1.00	0.00
ATOM	1212	HG2	GLN	76	-9.223	9.482	3.288	1.00	0.00
ATOM	1213	HG3	GLN	76	-10.936	9.140	2.949	1.00	0.00
ATOM	1214	CD	GLN	76	-10.565	10.036	4.843	1.00	0.00

ATOM	1215	OE1	GLN	76	-9.946	11.080	5.073	1.00	0.00
ATOM	1216	NE2	GLN	76	-11.623	9.659	5.551	1.00	0.00
ATOM	1217	HE21	GLN	76	-11.943	10.232	6.319	1.00	0.00
ATOM	1218	HE22	GLN	76	-12.103	8.802	5.318	1.00	0.00
ATOM	1219	C	GLN	76	-8.308	5.944	5.060	1.00	0.00
ATOM	1220	O	GLN	76	-8.895	5.058	4.435	1.00	0.00
ATOM	1221	N	ARG	77	-7.112	5.741	5.602	1.00	0.00
ATOM	1222	H	ARG	77	-7.869	5.814	6.267	1.00	0.00
ATOM	1223	CA	ARG	77	-6.423	4.472	5.482	1.00	0.00
ATOM	1224	HA	ARG	77	-7.350	5.040	5.567	1.00	0.00
ATOM	1225	CB	ARG	77	-5.262	5.371	5.895	1.00	0.00
ATOM	1226	HB2	ARG	77	-5.399	5.692	6.928	1.00	0.00
ATOM	1227	HB3	ARG	77	-4.326	4.820	5.807	1.00	0.00
ATOM	1228	CG	ARG	77	-5.219	6.595	4.985	1.00	0.00
ATOM	1229	HG2	ARG	77	-5.081	6.275	3.952	1.00	0.00
ATOM	1230	HG3	ARG	77	-6.154	7.147	5.073	1.00	0.00
ATOM	1231	CD	ARG	77	-4.058	7.494	5.398	1.00	0.00
ATOM	1232	HD2	ARG	77	-4.195	7.814	6.431	1.00	0.00
ATOM	1233	HD3	ARG	77	-3.122	6.942	5.310	1.00	0.00
ATOM	1234	NE	ARG	77	-3.984	8.694	4.535	1.00	0.00
ATOM	1235	HE	ARG	77	-4.667	8.801	3.798	1.00	0.00
ATOM	1236	CZ	ARG	77	-3.060	9.639	4.686	1.00	0.00

ATOM	1237	NH1	ARG	77	-2.128	9.569	5.632	1.00	0.00
ATOM	1238	HH11	ARG	77	-2.111	8.779	6.262	1.00	0.00
ATOM	1239	HH12	ARG	77	-1.442	10.305	5.717	1.00	0.00
ATOM	1240	NH2	ARG	77	-3.086	10.676	3.854	1.00	0.00
ATOM	1241	HH21	ARG	77	-3.795	10.726	3.136	1.00	0.00
ATOM	1242	HH22	ARG	77	-2.397	11.409	3.944	1.00	0.00
ATOM	1243	C	ARG	77	-6.219	4.090	4.030	1.00	0.00
ATOM	1244	O	ARG	77	-6.137	2.917	3.688	1.00	0.00
ATOM	1245	N	LEU	78	-6.154	5.107	3.174	1.00	0.00
ATOM	1246	H	LEU	78	-6.199	6.063	3.497	1.00	0.00
ATOM	1247	CA	LEU	78	-6.154	4.850	1.664	1.00	0.00
ATOM	1248	HA	LEU	78	-6.484	5.747	1.139	1.00	0.00
ATOM	1249	CB	LEU	78	-4.761	4.490	1.181	1.00	0.00
ATOM	1250	HB2	LEU	78	-4.598	3.546	1.700	1.00	0.00
ATOM	1251	HB3	LEU	78	-4.805	4.310	0.107	1.00	0.00
ATOM	1252	CG	LEU	78	-3.614	5.444	1.489	1.00	0.00
ATOM	1253	HG	LEU	78	-3.505	5.529	2.570	1.00	0.00
ATOM	1254	CD1	LEU	78	-2.326	4.933	0.892	1.00	0.00
ATOM	1255	HD11	LEU	78	-2.435	4.848	-0.189	1.00	0.00
ATOM	1256	HD12	LEU	78	-1.518	5.627	1.122	1.00	0.00
ATOM	1257	HD13	LEU	78	-2.094	3.954	1.311	1.00	0.00
ATOM	1258	CD2	LEU	78	-3.980	6.877	1.000	1.00	0.00

ATOM	1259	HD21	LEU	78	-4.881	7.217	1.511	1.00	0.00
ATOM	1260	HD22	LEU	78	-3.158	7.558	1.221	1.00	0.00
ATOM	1261	HD23	LEU	78	-4.158	6.861	-0.076	1.00	0.00
ATOM	1262	C	LEU	78	-7.190	3.815	1.289	1.00	0.00
ATOM	1263	O	LEU	78	-6.974	2.899	0.435	1.00	0.00
ATOM	1264	N	ARG	79	-8.393	3.943	1.882	1.00	0.00
ATOM	1265	H	ARG	79	-8.586	4.715	2.505	1.00	0.00
ATOM	1266	CA	ARG	79	-9.435	2.945	1.675	1.00	0.00
ATOM	1267	HA	ARG	79	-9.106	1.973	2.042	1.00	0.00
ATOM	1268	CB	ARG	79	-10.690	3.353	2.437	1.00	0.00
ATOM	1269	HB2	ARG	79	-10.362	3.763	3.392	1.00	0.00
ATOM	1270	HB3	ARG	79	-11.175	4.136	1.853	1.00	0.00
ATOM	1271	CG	ARG	79	-11.665	2.234	2.681	1.00	0.00
ATOM	1272	HG2	ARG	79	-12.104	1.917	1.735	1.00	0.00
ATOM	1273	HG3	ARG	79	-11.150	1.392	3.142	1.00	0.00
ATOM	1274	CD	ARG	79	-12.779	2.732	3.623	1.00	0.00
ATOM	1275	HD2	ARG	79	-13.491	3.339	3.063	1.00	0.00
ATOM	1276	HD3	ARG	79	-13.297	1.880	4.063	1.00	0.00
ATOM	1277	NE	ARG	79	-12.208	3.555	4.713	1.00	0.00
ATOM	1278	HE	ARG	79	-11.352	3.195	5.110	1.00	0.00
ATOM	1279	CZ	ARG	79	-12.710	4.700	5.204	1.00	0.00
ATOM	1280	NH1	ARG	79	-13.850	5.226	4.741	1.00	0.00

ATOM	1281	HH11	ARG	79	-14.356	4.758	4.002	1.00	0.00
ATOM	1282	HH12	ARG	79	-14.200	6.089	5.132	1.00	0.00
ATOM	1283	NH2	ARG	79	-12.058	5.337	6.183	1.00	0.00
ATOM	1284	HH21	ARG	79	-11.197	4.954	6.544	1.00	0.00
ATOM	1285	HH22	ARG	79	-12.431	6.199	6.556	1.00	0.00
ATOM	1286	C	ARG	79	-9.797	2.730	0.205	1.00	0.00
ATOM	1287	O	ARG	79	-9.953	1.646	-0.230	1.00	0.00
ATOM	1288	N	ALA	80	-9.775	3.774	-0.611	1.00	0.00
ATOM	1289	H	ALA	80	-9.638	4.726	-0.304	1.00	0.00
ATOM	1290	CA	ALA	80	-10.018	3.535	-2.022	1.00	0.00
ATOM	1291	HA	ALA	80	-10.907	2.908	-2.098	1.00	0.00
ATOM	1292	CB	ALA	80	-10.284	4.848	-2.753	1.00	0.00
ATOM	1293	HB1	ALA	80	-9.400	5.483	-2.694	1.00	0.00
ATOM	1294	HB2	ALA	80	-10.514	4.643	-3.799	1.00	0.00
ATOM	1295	HB3	ALA	80	-11.129	5.358	-2.290	1.00	0.00
ATOM	1296	C	ALA	80	-8.880	2.818	-2.701	1.00	0.00
ATOM	1297	O	ALA	80	-9.157	1.995	-3.610	1.00	0.00
ATOM	1298	N	CYX	81	-7.635	3.023	-2.304	1.00	0.00
ATOM	1299	H	CYX	81	-7.443	3.701	-1.580	1.00	0.00
ATOM	1300	CA	CYX	81	-6.521	2.298	-2.879	1.00	0.00
ATOM	1301	HA	CYX	81	-6.593	2.386	-3.963	1.00	0.00
ATOM	1302	CB	CYX	81	-5.186	2.777	-2.453	1.00	0.00

ATOM	1303	HB2	CYX	81	-5.078	2.643	-1.377	1.00	0.00
ATOM	1304	HB3	CYX	81	-4.414	2.208	-2.970	1.00	0.00
ATOM	1305	SG	CYX	81	-5.042	4.606	-2.871	1.00	0.00
ATOM	1306	C	CYX	81	-6.613	0.819	-2.474	1.00	0.00
ATOM	1307	O	CYX	81	-6.311	-0.065	-3.200	1.00	0.00
ATOM	1308	N	GLN	82	-7.101	0.620	-1.229	1.00	0.00
ATOM	1309	H	GLN	82	-7.318	1.362	-0.579	1.00	0.00
ATOM	1310	CA	GLN	82	-7.288	-0.767	-0.790	1.00	0.00
ATOM	1311	HA	GLN	82	-6.335	-1.292	-0.851	1.00	0.00
ATOM	1312	CB	GLN	82	-7.798	-0.844	0.653	1.00	0.00
ATOM	1313	HB2	GLN	82	-8.718	-0.260	0.683	1.00	0.00
ATOM	1314	HB3	GLN	82	-8.028	-1.893	0.840	1.00	0.00
ATOM	1315	CG	GLN	82	-6.856	-0.345	1.702	1.00	0.00
ATOM	1316	HG2	GLN	82	-5.936	-0.928	1.687	1.00	0.00
ATOM	1317	HG3	GLN	82	-6.620	0.710	1.557	1.00	0.00
ATOM	1318	CD	GLN	82	-7.517	-0.513	3.064	1.00	0.00
ATOM	1319	OE1	GLN	82	-8.129	-1.540	3.312	1.00	0.00
ATOM	1320	NE2	GLN	82	-7.410	0.485	3.926	1.00	0.00
ATOM	1321	HE21	GLN	82	-7.836	0.408	4.838	1.00	0.00
ATOM	1322	HE22	GLN	82	-6.903	1.320	3.667	1.00	0.00
ATOM	1323	C	GLN	82	-8.258	-1.458	-1.703	1.00	0.00
ATOM	1324	O	GLN	82	-7.962	-2.597	-2.073	1.00	0.00

ATOM	1325	N	ARG	83	-9.327	-0.798	-2.110	1.00	0.00
ATOM	1326	H	ARG	83	-9.502	0.085	-1.651	1.00	0.00
ATOM	1327	CA	ARG	83	-10.307	-1.287	-3.043	1.00	0.00
ATOM	1328	HA	ARG	83	-10.646	-2.270	-2.718	1.00	0.00
ATOM	1329	CB	ARG	83	-11.498	-0.379	-3.143	1.00	0.00
ATOM	1330	HB2	ARG	83	-11.060	0.599	-3.346	1.00	0.00
ATOM	1331	HB3	ARG	83	-12.019	-0.734	-4.033	1.00	0.00
ATOM	1332	CG	ARG	83	-12.487	-0.263	-1.988	1.00	0.00
ATOM	1333	HG2	ARG	83	-12.829	-1.263	-1.722	1.00	0.00
ATOM	1334	HG3	ARG	83	-11.975	0.185	-1.136	1.00	0.00
ATOM	1335	CD	ARG	83	-13.699	0.608	-2.374	1.00	0.00
ATOM	1336	HD2	ARG	83	-13.442	1.228	-3.233	1.00	0.00
ATOM	1337	HD3	ARG	83	-14.542	-0.034	-2.630	1.00	0.00
ATOM	1338	NE	ARG	83	-14.096	1.487	-1.259	1.00	0.00
ATOM	1339	HE	ARG	83	-13.903	2.472	-1.376	1.00	0.00
ATOM	1340	CZ	ARG	83	-14.695	1.083	-0.131	1.00	0.00
ATOM	1341	NH1	ARG	83	-14.992	-0.202	0.074	1.00	0.00
ATOM	1342	HH11	ARG	83	-14.764	-0.888	-0.631	1.00	0.00
ATOM	1343	HH12	ARG	83	-15.444	-0.482	0.933	1.00	0.00
ATOM	1344	NH2	ARG	83	-14.993	1.973	0.820	1.00	0.00
ATOM	1345	HH21	ARG	83	-14.766	2.948	0.684	1.00	0.00
ATOM	1346	HH22	ARG	83	-15.445	1.667	1.670	1.00	0.00

ATOM	1347	C	ARG	83	-9.695	-1.575	-4.447	1.00	0.00
ATOM	1348	O	ARG	83	-9.886	-2.648	-5.024	1.00	0.00
ATOM	1349	N	VAL	84	-8.858	-0.650	-4.902	1.00	0.00
ATOM	1350	H	VAL	84	-8.822	0.264	-4.473	1.00	0.00
ATOM	1351	CA	VAL	84	-8.111	-0.865	-6.128	1.00	0.00
ATOM	1352	HA	VAL	84	-8.786	-1.132	-6.942	1.00	0.00
ATOM	1353	CB	VAL	84	-7.313	0.382	-6.541	1.00	0.00
ATOM	1354	HB	VAL	84	-6.707	0.682	-5.687	1.00	0.00
ATOM	1355	CG1	VAL	84	-6.401	0.147	-7.761	1.00	0.00
ATOM	1356	HG11	VAL	84	-7.007	-0.152	-8.616	1.00	0.00
ATOM	1357	HG12	VAL	84	-5.867	1.067	-7.999	1.00	0.00
ATOM	1358	HG13	VAL	84	-5.683	-0.640	-7.532	1.00	0.00
ATOM	1359	CG2	VAL	84	-8.328	1.477	-6.846	1.00	0.00
ATOM	1360	HG21	VAL	84	-8.925	1.678	-5.956	1.00	0.00
ATOM	1361	HG22	VAL	84	-7.805	2.386	-7.145	1.00	0.00
ATOM	1362	HG23	VAL	84	-8.982	1.152	-7.656	1.00	0.00
ATOM	1363	C	VAL	84	-7.271	-2.102	-6.063	1.00	0.00
ATOM	1364	O	VAL	84	-7.151	-2.913	-7.011	1.00	0.00
ATOM	1365	N	ILE	85	-6.486	-2.230	-4.995	1.00	0.00
ATOM	1366	H	ILE	85	-6.571	-1.575	-4.230	1.00	0.00
ATOM	1367	CA	ILE	85	-5.533	-3.305	-4.873	1.00	0.00
ATOM	1368	HA	ILE	85	-4.826	-3.338	-5.702	1.00	0.00



ATOM	1369	CB	ILE	85	-4.762	-3.141	-3.546	1.00	0.00
ATOM	1370	HB	ILE	85	-5.467	-2.828	-2.776	1.00	0.00
ATOM	1371	CG2	ILE	85	-4.092	-4.432	-3.123	1.00	0.00
ATOM	1372	HG21	ILE	85	-3.387	-4.745	-3.893	1.00	0.00
ATOM	1373	HG22	ILE	85	-3.560	-4.275	-2.185	1.00	0.00
ATOM	1374	HG23	ILE	85	-4.847	-5.206	-2.987	1.00	0.00
ATOM	1375	CG1	ILE	85	-3.763	-2.047	-3.645	1.00	0.00
ATOM	1376	HG12	ILE	85	-2.859	-2.463	-4.089	1.00	0.00
ATOM	1377	HG13	ILE	85	-4.173	-1.282	-4.305	1.00	0.00
ATOM	1378	CD1	ILE	85	-3.432	-1.435	-2.317	1.00	0.00
ATOM	1379	HD11	ILE	85	-3.022	-2.199	-1.657	1.00	0.00
ATOM	1380	HD12	ILE	85	-2.697	-0.642	-2.455	1.00	0.00
ATOM	1381	HD13	ILE	85	-4.336	-1.018	-1.873	1.00	0.00
ATOM	1382	C	ILE	85	-6.387	-4.621	-4.844	1.00	0.00
ATOM	1383	O	ILE	85	-5.974	-5.571	-5.495	1.00	0.00
ATOM	1384	N	GLN	86	-7.488	-4.656	-4.148	1.00	0.00
ATOM	1385	H	GLN	86	-7.762	-3.869	-3.577	1.00	0.00
ATOM	1386	CA	GLN	86	-8.346	-5.891	-4.119	1.00	0.00
ATOM	1387	HA	GLN	86	-7.748	-6.763	-3.856	1.00	0.00
ATOM	1388	CB	GLN	86	-9.418	-5.723	-3.096	1.00	0.00
ATOM	1389	HB2	GLN	86	-9.895	-4.754	-3.249	1.00	0.00
ATOM	1390	HB3	GLN	86	-10.155	-6.515	-3.232	1.00	0.00

ATOM	1391	CG	GLN	86	-8.846	-5.794	-1.670	1.00	0.00
ATOM	1392	HG2	GLN	86	-8.116	-6.584	-1.498	1.00	0.00
ATOM	1393	HG3	GLN	86	-8.380	-4.824	-1.497	1.00	0.00
ATOM	1394	CD	GLN	86	-9.992	-5.966	-0.681	1.00	0.00
ATOM	1395	OE1	GLN	86	-10.536	-4.986	-0.111	1.00	0.00
ATOM	1396	NE2	GLN	86	-10.452	-7.202	-0.565	1.00	0.00
ATOM	1397	HE21	GLN	86	-11.212	-7.397	0.071	1.00	0.00
ATOM	1398	HE22	GLN	86	-10.041	-7.944	-1.113	1.00	0.00
ATOM	1399	C	GLN	86	-8.941	-6.177	-5.514	1.00	0.00
ATOM	1400	O	GLN	86	-8.926	-7.294	-5.961	1.00	0.00
ATOM	1401	N	ARG	87	-9.384	-5.122	-6.177	1.00	0.00
ATOM	1402	H	ARG	87	-9.303	-4.206	-5.758	1.00	0.00
ATOM	1403	CA	ARG	87	-10.007	-5.229	-7.555	1.00	0.00
ATOM	1404	HA	ARG	87	-10.973	-5.733	-7.516	1.00	0.00
ATOM	1405	CB	ARG	87	-10.218	-3.819	-8.066	1.00	0.00
ATOM	1406	HB2	ARG	87	-11.048	-3.373	-7.518	1.00	0.00
ATOM	1407	HB3	ARG	87	-9.311	-3.244	-7.881	1.00	0.00
ATOM	1408	CG	ARG	87	-10.532	-3.807	-9.563	1.00	0.00
ATOM	1409	HG2	ARG	87	-9.729	-4.287	-10.122	1.00	0.00
ATOM	1410	HG3	ARG	87	-11.470	-4.327	-9.757	1.00	0.00
ATOM	1411	CD	ARG	87	-10.656	-2.379	-9.996	1.00	0.00
ATOM	1412	HD2	ARG	87	-9.840	-1.788	-9.580	1.00	0.00

ATOM	1413	HD3	ARG	87	-10.634	-2.313	-11.084	1.00	0.00
ATOM	1414	NE	ARG	87	-11.911	-1.832	-9.524	1.00	0.00
ATOM	1415	HE	ARG	87	-12.596	-2.461	-9.131	1.00	0.00
ATOM	1416	CZ	ARG	87	-12.174	-0.509	-9.517	1.00	0.00
ATOM	1417	NH1	ARG	87	-11.294	0.371	-9.976	1.00	0.00
ATOM	1418	HH11	ARG	87	-10.408	0.052	-10.340	1.00	0.00
ATOM	1419	HH12	ARG	87	-11.515	1.357	-9.960	1.00	0.00
ATOM	1420	NH2	ARG	87	-13.405	-0.081	-9.100	1.00	0.00
ATOM	1421	HH21	ARG	87	-14.097	-0.754	-8.805	1.00	0.00
ATOM	1422	HH22	ARG	87	-13.616	0.907	-9.090	1.00	0.00
ATOM	1423	C	ARG	87	-9.093	-5.980	-8.496	1.00	0.00
ATOM	1424	O	ARG	87	-9.531	-6.873	-9.185	1.00	0.00
ATOM	1425	N	TRP	88	-7.789	-5.687	-8.512	1.00	0.00
ATOM	1426	H	TRP	88	-7.488	-4.944	-7.898	1.00	0.00
ATOM	1427	CA	TRP	88	-6.811	-6.269	-9.427	1.00	0.00
ATOM	1428	HA	TRP	88	-7.311	-6.660	-10.313	1.00	0.00
ATOM	1429	CB	TRP	88	-5.829	-5.214	-9.856	1.00	0.00
ATOM	1430	HB2	TRP	88	-5.544	-4.675	-8.953	1.00	0.00
ATOM	1431	HB3	TRP	88	-4.932	-5.541	-10.382	1.00	0.00
ATOM	1432	CG	TRP	88	-6.518	-4.214	-10.757	1.00	0.00
ATOM	1433	CD1	TRP	88	-7.032	-2.984	-10.437	1.00	0.00
ATOM	1434	HD1	TRP	88	-6.872	-2.625	-9.421	1.00	0.00

ATOM	1435	NE1 TRP	88	-7.653	-2.463	-11.501	1.00	0.00
ATOM	1436	HE1 TRP	88	-8.038	-1.530	-11.549	1.00	0.00
ATOM	1437	CE2 TRP	88	-7.604	-3.364	-12.544	1.00	0.00
ATOM	1438	CZ2 TRP	88	-8.083	-3.269	-13.858	1.00	0.00
ATOM	1439	HZ2 TRP	88	-8.583	-2.356	-14.184	1.00	0.00
ATOM	1440	CH2 TRP	88	-7.889	-4.329	-14.637	1.00	0.00
ATOM	1441	HH2 TRP	88	-8.331	-4.319	-15.634	1.00	0.00
ATOM	1442	CZ3 TRP	88	-7.158	-5.432	-14.239	1.00	0.00
ATOM	1443	HZ3 TRP	88	-6.961	-6.261	-14.918	1.00	0.00
ATOM	1444	CE3 TRP	88	-6.665	-5.509	-12.985	1.00	0.00
ATOM	1445	HE3 TRP	88	-6.136	-6.416	-12.692	1.00	0.00
ATOM	1446	CD2 TRP	88	-6.881	-4.452	-12.122	1.00	0.00
ATOM	1447	C TRP	88	-6.099	-7.482	-8.922	1.00	0.00
ATOM	1448	O TRP	88	-5.262	-7.985	-9.620	1.00	0.00
ATOM	1449	N SER	89	-6.585	-7.994	-7.810	1.00	0.00
ATOM	1450	H SER	89	-7.359	-7.505	-7.383	1.00	0.00
ATOM	1451	CA SER	89	-6.029	-9.146	-7.116	1.00	0.00
ATOM	1452	HA SER	89	-5.180	-9.558	-7.661	1.00	0.00
ATOM	1453	CB SER	89	-5.540	-8.675	-5.714	1.00	0.00
ATOM	1454	HB2 SER	89	-6.339	-8.160	-5.181	1.00	0.00
ATOM	1455	HB3 SER	89	-5.196	-9.522	-5.122	1.00	0.00
ATOM	1456	OG SER	89	-4.452	-7.771	-5.930	1.00	0.00



ATOM	1478	S1	LIG	91	16.003	-6.600	-8.474	1.00	0.00
ATOM	1479	O1	LIG	91	16.174	-7.974	-7.630	1.00	0.00
ATOM	1480	O2	LIG	91	17.355	-6.735	-9.346	1.00	0.00
ATOM	1481	H26	LIG	91	18.124	-6.531	-8.792	1.00	0.00
ATOM	1482	O3	LIG	91	14.906	-6.717	-9.402	1.00	0.00
ATOM	1483	O4	LIG	91	16.116	-5.473	-7.571	1.00	0.00
ATOM	1484	C1	LIG	91	13.951	-13.261	-2.770	1.00	0.00
ATOM	1485	H1	LIG	91	14.148	-14.029	-3.528	1.00	0.00
ATOM	1486	H2	LIG	91	14.888	-13.138	-2.211	1.00	0.00
ATOM	1487	C2	LIG	91	12.858	-13.759	-1.818	1.00	0.00
ATOM	1488	H3	LIG	91	11.921	-13.882	-2.376	1.00	0.00
ATOM	1489	H4	LIG	91	12.660	-12.990	-1.059	1.00	0.00
ATOM	1490	C3	LIG	91	13.601	-11.941	-3.466	1.00	0.00
ATOM	1491	H5	LIG	91	13.406	-11.172	-2.707	1.00	0.00
ATOM	1492	H6	LIG	91	12.663	-12.064	-4.023	1.00	0.00
ATOM	1493	C4	LIG	91	13.206	-15.078	-1.119	1.00	0.00
ATOM	1494	H7	LIG	91	14.143	-14.955	-0.560	1.00	0.00
ATOM	1495	H8	LIG	91	13.405	-15.847	-1.877	1.00	0.00
ATOM	1496	C5	LIG	91	14.693	-11.444	-4.420	1.00	0.00
ATOM	1497	H9	LIG	91	15.632	-11.323	-3.866	1.00	0.00
ATOM	1498	H10	LIG	91	14.886	-12.210	-5.182	1.00	0.00
ATOM	1499	C6	LIG	91	12.113	-15.578	-0.168	1.00	0.00

ATOM	1500	H11	LIG	91	11.176	-15.700	-0.727	1.00	0.00
ATOM	1501	H12	LIG	91	11.914	-14.809	0.591	1.00	0.00
ATOM	1502	C7	LIG	91	14.341	-10.123	-5.113	1.00	0.00
ATOM	1503	H13	LIG	91	13.401	-10.244	-5.665	1.00	0.00
ATOM	1504	H14	LIG	91	14.153	-9.355	-4.351	1.00	0.00
ATOM	1505	C8	LIG	91	12.460	-16.897	0.531	1.00	0.00
ATOM	1506	H15	LIG	91	12.658	-17.667	-0.226	1.00	0.00
ATOM	1507	H16	LIG	91	13.397	-16.775	1.090	1.00	0.00
ATOM	1508	C9	LIG	91	15.439	-9.639	-6.069	1.00	0.00
ATOM	1509	H17	LIG	91	15.618	-10.390	-6.846	1.00	0.00
ATOM	1510	H18	LIG	91	16.380	-9.508	-5.525	1.00	0.00
ATOM	1511	C10	LIG	91	11.367	-17.397	1.483	1.00	0.00
ATOM	1512	H19	LIG	91	10.432	-17.518	0.924	1.00	0.00
ATOM	1513	H20	LIG	91	11.171	-16.628	2.240	1.00	0.00
ATOM	1514	C11	LIG	91	15.068	-8.327	-6.734	1.00	0.00
ATOM	1515	H21	LIG	91	14.159	-8.420	-7.334	1.00	0.00
ATOM	1516	H22	LIG	91	14.944	-7.523	-6.004	1.00	0.00
ATOM	1517	C12	LIG	91	11.724	-18.716	2.175	1.00	0.00
ATOM	1518	H23	LIG	91	12.638	-18.616	2.769	1.00	0.00
ATOM	1519	H24	LIG	91	10.926	-19.043	2.847	1.00	0.00
ATOM	1520	H25	LIG	91	11.891	-19.513	1.444	1.00	0.00

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ATOM	1521	S1	LIG	92	-19.614	20.405	3.602	1.00	0.00
ATOM	1522	O1	LIG	92	-18.256	21.244	3.317	1.00	0.00
ATOM	1523	O2	LIG	92	-20.434	21.596	4.322	1.00	0.00
ATOM	1524	H26	LIG	92	-20.093	21.732	5.219	1.00	0.00
ATOM	1525	O3	LIG	92	-20.300	20.128	2.364	1.00	0.00
ATOM	1526	O4	LIG	92	-19.331	19.359	4.564	1.00	0.00
ATOM	1527	C1	LIG	92	-11.373	22.222	0.458	1.00	0.00
ATOM	1528	H1	LIG	92	-11.714	23.146	-0.026	1.00	0.00
ATOM	1529	H2	LIG	92	-11.005	22.517	1.449	1.00	0.00
ATOM	1530	C2	LIG	92	-10.216	21.625	-0.352	1.00	0.00
ATOM	1531	H3	LIG	92	-10.583	21.330	-1.343	1.00	0.00
ATOM	1532	H4	LIG	92	-9.875	20.700	0.132	1.00	0.00
ATOM	1533	C3	LIG	92	-12.561	21.269	0.622	1.00	0.00
ATOM	1534	H5	LIG	92	-12.220	20.345	1.109	1.00	0.00
ATOM	1535	H6	LIG	92	-12.927	20.972	-0.370	1.00	0.00
ATOM	1536	C4	LIG	92	-9.026	22.576	-0.517	1.00	0.00
ATOM	1537	H7	LIG	92	-8.657	22.870	0.475	1.00	0.00
ATOM	1538	H8	LIG	92	-9.366	23.501	-0.999	1.00	0.00
ATOM	1539	C5	LIG	92	-13.719	21.866	1.429	1.00	0.00
ATOM	1540	H9	LIG	92	-13.354	22.165	2.420	1.00	0.00
ATOM	1541	H10	LIG	92	-14.064	22.787	0.942	1.00	0.00
ATOM	1542	C6	LIG	92	-7.869	21.980	-1.327	1.00	0.00



ATOM	1543	H11	LIG	92	-8.237	21.686	-2.318	1.00	0.00
ATOM	1544	H12	LIG	92	-7.528	21.055	-0.844	1.00	0.00
ATOM	1545	C7	LIG	92	-14.904	20.909	1.594	1.00	0.00
ATOM	1546	H13	LIG	92	-15.267	20.609	0.602	1.00	0.00
ATOM	1547	H14	LIG	92	-14.561	19.991	2.086	1.00	0.00
ATOM	1548	C8	LIG	92	-6.679	22.931	-1.492	1.00	0.00
ATOM	1549	H15	LIG	92	-7.018	23.857	-1.976	1.00	0.00
ATOM	1550	H16	LIG	92	-6.311	23.226	-0.501	1.00	0.00
ATOM	1551	C9	LIG	92	-16.059	21.521	2.398	1.00	0.00
ATOM	1552	H17	LIG	92	-16.423	22.427	1.903	1.00	0.00
ATOM	1553	H18	LIG	92	-15.708	21.817	3.392	1.00	0.00
ATOM	1554	C10	LIG	92	-5.521	22.336	-2.302	1.00	0.00
ATOM	1555	H19	LIG	92	-5.890	22.041	-3.292	1.00	0.00
ATOM	1556	H20	LIG	92	-5.181	21.412	-1.818	1.00	0.00
ATOM	1557	C11	LIG	92	-17.214	20.551	2.552	1.00	0.00
ATOM	1558	H21	LIG	92	-17.634	20.264	1.585	1.00	0.00
ATOM	1559	H22	LIG	92	-16.920	19.654	3.104	1.00	0.00
ATOM	1560	C12	LIG	92	-4.338	23.294	-2.462	1.00	0.00
ATOM	1561	H23	LIG	92	-3.926	23.580	-1.489	1.00	0.00
ATOM	1562	H24	LIG	92	-3.530	22.839	-3.042	1.00	0.00
ATOM	1563	H25	LIG	92	-4.639	24.212	-2.976	1.00	0.00

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ATOM	1564	S1	LIG	93	19.172	-9.663	11.518	1.00	0.00
ATOM	1565	O1	LIG	93	19.340	-8.204	12.206	1.00	0.00
ATOM	1566	O2	LIG	93	20.497	-9.601	10.597	1.00	0.00
ATOM	1567	H26	LIG	93	20.345	-9.009	9.845	1.00	0.00
ATOM	1568	O3	LIG	93	19.399	-10.703	12.490	1.00	0.00
ATOM	1569	O4	LIG	93	17.993	-9.655	10.675	1.00	0.00
ATOM	1570	C1	LIG	93	17.490	-2.724	17.008	1.00	0.00
ATOM	1571	H1	LIG	93	18.524	-2.710	17.376	1.00	0.00
ATOM	1572	H2	LIG	93	17.454	-2.010	16.176	1.00	0.00
ATOM	1573	C2	LIG	93	16.550	-2.249	18.122	1.00	0.00
ATOM	1574	H3	LIG	93	16.586	-2.963	18.954	1.00	0.00
ATOM	1575	H4	LIG	93	15.515	-2.264	17.754	1.00	0.00
ATOM	1576	C3	LIG	93	17.160	-4.127	16.485	1.00	0.00
ATOM	1577	H5	LIG	93	16.126	-4.141	16.115	1.00	0.00
ATOM	1578	H6	LIG	93	17.194	-4.840	17.319	1.00	0.00
ATOM	1579	C4	LIG	93	16.878	-0.846	18.646	1.00	0.00
ATOM	1580	H7	LIG	93	16.841	-0.131	17.813	1.00	0.00
ATOM	1581	H8	LIG	93	17.912	-0.830	19.012	1.00	0.00
ATOM	1582	C5	LIG	93	18.102	-4.604	15.374	1.00	0.00
ATOM	1583	H9	LIG	93	18.071	-3.889	14.541	1.00	0.00
ATOM	1584	H10	LIG	93	19.134	-4.594	15.745	1.00	0.00
ATOM	1585	C6	LIG	93	15.938	-0.371	19.760	1.00	0.00

ATOM	1586	H11	LIG	93	15.975	-1.085	20.592	1.00	0.00
ATOM	1587	H12	LIG	93	14.903	-0.387	19.392	1.00	0.00
ATOM	1588	C7	LIG	93	17.766	-6.005	14.852	1.00	0.00
ATOM	1589	H13	LIG	93	17.796	-6.718	15.686	1.00	0.00
ATOM	1590	H14	LIG	93	16.735	-6.013	14.476	1.00	0.00
ATOM	1591	C8	LIG	93	16.265	1.032	20.284	1.00	0.00
ATOM	1592	H15	LIG	93	17.300	1.049	20.653	1.00	0.00
ATOM	1593	H16	LIG	93	16.230	1.747	19.451	1.00	0.00
ATOM	1594	C9	LIG	93	18.720	-6.473	13.744	1.00	0.00
ATOM	1595	H17	LIG	93	19.749	-6.489	14.116	1.00	0.00
ATOM	1596	H18	LIG	93	18.692	-5.771	12.904	1.00	0.00
ATOM	1597	C10	LIG	93	15.327	1.508	21.398	1.00	0.00
ATOM	1598	H19	LIG	93	15.363	0.794	22.229	1.00	0.00
ATOM	1599	H20	LIG	93	14.294	1.493	21.029	1.00	0.00
ATOM	1600	C11	LIG	93	18.361	-7.858	13.241	1.00	0.00
ATOM	1601	H21	LIG	93	18.424	-8.606	14.035	1.00	0.00
ATOM	1602	H22	LIG	93	17.363	-7.882	12.794	1.00	0.00
ATOM	1603	C12	LIG	93	15.663	2.910	21.915	1.00	0.00
ATOM	1604	H23	LIG	93	15.602	3.653	21.113	1.00	0.00
ATOM	1605	H24	LIG	93	14.975	3.220	22.706	1.00	0.00
ATOM	1606	H25	LIG	93	16.677	2.949	22.323	1.00	0.00

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ATOM	1607	S1	LIG	94	8.330	24.193	-16.087	1.00	0.00
ATOM	1608	O1	LIG	94	8.570	23.633	-14.584	1.00	0.00
ATOM	1609	O2	LIG	94	7.414	25.459	-15.682	1.00	0.00
ATOM	1610	H26	LIG	94	6.525	25.156	-15.440	1.00	0.00
ATOM	1611	O3	LIG	94	9.556	24.731	-16.621	1.00	0.00
ATOM	1612	O4	LIG	94	7.536	23.233	-16.827	1.00	0.00
ATOM	1613	C1	LIG	94	11.626	19.052	-9.467	1.00	0.00
ATOM	1614	H1	LIG	94	11.961	19.927	-8.896	1.00	0.00
ATOM	1615	H2	LIG	94	10.624	18.809	-9.089	1.00	0.00
ATOM	1616	C2	LIG	94	12.568	17.875	-9.189	1.00	0.00
ATOM	1617	H3	LIG	94	13.570	18.118	-9.566	1.00	0.00
ATOM	1618	H4	LIG	94	12.233	17.000	-9.761	1.00	0.00
ATOM	1619	C3	LIG	94	11.530	19.423	-10.951	1.00	0.00
ATOM	1620	H5	LIG	94	11.192	18.548	-11.522	1.00	0.00
ATOM	1621	H6	LIG	94	12.533	19.663	-11.328	1.00	0.00
ATOM	1622	C4	LIG	94	12.665	17.502	-7.705	1.00	0.00
ATOM	1623	H7	LIG	94	11.663	17.258	-7.328	1.00	0.00
ATOM	1624	H8	LIG	94	12.999	18.377	-7.133	1.00	0.00
ATOM	1625	C5	LIG	94	10.590	20.601	-11.228	1.00	0.00
ATOM	1626	H9	LIG	94	9.588	20.363	-10.849	1.00	0.00
ATOM	1627	H10	LIG	94	10.930	21.477	-10.662	1.00	0.00
ATOM	1628	C6	LIG	94	13.608	16.326	-7.427	1.00	0.00

ATOM	1629	H11	LIG	94	14.609	16.569	-7.805	1.00	0.00
ATOM	1630	H12	LIG	94	13.273	15.450	-7.999	1.00	0.00
ATOM	1631	C7	LIG	94	10.495	20.967	-12.714	1.00	0.00
ATOM	1632	H13	LIG	94	11.498	21.203	-13.092	1.00	0.00
ATOM	1633	H14	LIG	94	10.151	20.092	-13.279	1.00	0.00
ATOM	1634	C8	LIG	94	13.705	15.952	-5.944	1.00	0.00
ATOM	1635	H15	LIG	94	14.040	16.827	-5.371	1.00	0.00
ATOM	1636	H16	LIG	94	12.703	15.710	-5.566	1.00	0.00
ATOM	1637	C9	LIG	94	9.556	22.151	-12.978	1.00	0.00
ATOM	1638	H17	LIG	94	9.904	23.036	-12.434	1.00	0.00
ATOM	1639	H18	LIG	94	8.551	21.922	-12.609	1.00	0.00
ATOM	1640	C10	LIG	94	14.648	14.776	-5.664	1.00	0.00
ATOM	1641	H19	LIG	94	15.648	15.020	-6.043	1.00	0.00
ATOM	1642	H20	LIG	94	14.312	13.902	-6.236	1.00	0.00
ATOM	1643	C11	LIG	94	9.475	22.487	-14.454	1.00	0.00
ATOM	1644	H21	LIG	94	10.449	22.773	-14.858	1.00	0.00
ATOM	1645	H22	LIG	94	9.066	21.657	-15.038	1.00	0.00
ATOM	1646	C12	LIG	94	14.738	14.412	-4.180	1.00	0.00
ATOM	1647	H23	LIG	94	13.757	14.131	-3.782	1.00	0.00
ATOM	1648	H24	LIG	94	15.416	13.570	-4.015	1.00	0.00
ATOM	1649	H25	LIG	94	15.105	15.255	-3.587	1.00	0.00

TER

ATOM	1650	S1	LIG	95	-15.826	-24.283	-8.701	1.00	0.00
ATOM	1651	O1	LIG	95	-15.205	-23.152	-9.682	1.00	0.00
ATOM	1652	O2	LIG	95	-14.461	-24.628	-7.909	1.00	0.00
ATOM	1653	H26	LIG	95	-13.879	-25.156	-8.476	1.00	0.00
ATOM	1654	O3	LIG	95	-16.714	-23.678	-7.739	1.00	0.00
ATOM	1655	O4	LIG	95	-16.231	-25.427	-9.494	1.00	0.00
ATOM	1656	C1	LIG	95	-15.594	-17.782	-14.929	1.00	0.00
ATOM	1657	H1	LIG	95	-15.054	-17.101	-14.260	1.00	0.00
ATOM	1658	H2	LIG	95	-14.826	-18.303	-15.516	1.00	0.00
ATOM	1659	C2	LIG	95	-16.482	-16.965	-15.874	1.00	0.00
ATOM	1660	H3	LIG	95	-17.250	-16.444	-15.288	1.00	0.00
ATOM	1661	H4	LIG	95	-17.023	-17.647	-16.544	1.00	0.00
ATOM	1662	C3	LIG	95	-16.370	-18.805	-14.092	1.00	0.00
ATOM	1663	H5	LIG	95	-16.908	-19.488	-14.762	1.00	0.00
ATOM	1664	H6	LIG	95	-17.139	-18.284	-13.507	1.00	0.00
ATOM	1665	C4	LIG	95	-15.708	-15.942	-16.714	1.00	0.00
ATOM	1666	H7	LIG	95	-14.940	-16.463	-17.301	1.00	0.00
ATOM	1667	H8	LIG	95	-15.167	-15.261	-16.045	1.00	0.00
ATOM	1668	C5	LIG	95	-15.482	-19.620	-13.144	1.00	0.00
ATOM	1669	H9	LIG	95	-14.711	-20.139	-13.727	1.00	0.00
ATOM	1670	H10	LIG	95	-14.947	-18.938	-12.472	1.00	0.00
ATOM	1671	C6	LIG	95	-16.596	-15.124	-17.658	1.00	0.00

ATOM	1672	H11	LIG	95	-17.364	-14.603	-17.071	1.00	0.00
ATOM	1673	H12	LIG	95	-17.137	-15.806	-18.328	1.00	0.00
ATOM	1674	C7	LIG	95	-16.261	-20.643	-12.311	1.00	0.00
ATOM	1675	H13	LIG	95	-17.033	-20.123	-11.730	1.00	0.00
ATOM	1676	H14	LIG	95	-16.792	-21.328	-12.984	1.00	0.00
ATOM	1677	C8	LIG	95	-15.823	-14.101	-18.498	1.00	0.00
ATOM	1678	H15	LIG	95	-15.282	-13.418	-17.830	1.00	0.00
ATOM	1679	H16	LIG	95	-15.054	-14.621	-19.084	1.00	0.00
ATOM	1680	C9	LIG	95	-15.362	-21.449	-11.363	1.00	0.00
ATOM	1681	H17	LIG	95	-14.845	-20.775	-10.673	1.00	0.00
ATOM	1682	H18	LIG	95	-14.593	-21.977	-11.935	1.00	0.00
ATOM	1683	C10	LIG	95	-16.710	-13.282	-19.443	1.00	0.00
ATOM	1684	H19	LIG	95	-17.477	-12.763	-18.856	1.00	0.00
ATOM	1685	H20	LIG	95	-17.249	-13.964	-20.112	1.00	0.00
ATOM	1686	C11	LIG	95	-16.157	-22.458	-10.557	1.00	0.00
ATOM	1687	H21	LIG	95	-16.908	-21.973	-9.928	1.00	0.00
ATOM	1688	H22	LIG	95	-16.641	-23.200	-11.198	1.00	0.00
ATOM	1689	C12	LIG	95	-15.928	-12.262	-20.276	1.00	0.00
ATOM	1690	H23	LIG	95	-15.175	-12.756	-20.899	1.00	0.00
ATOM	1691	H24	LIG	95	-16.588	-11.698	-20.940	1.00	0.00
ATOM	1692	H25	LIG	95	-15.407	-11.545	-19.636	1.00	0.00

TER

ATOM	1693	S1	LIG	96	-7.309	17.526	-21.485	1.00	0.00
ATOM	1694	O1	LIG	96	-6.791	18.191	-20.099	1.00	0.00
ATOM	1695	O2	LIG	96	-8.182	18.786	-21.994	1.00	0.00
ATOM	1696	H26	LIG	96	-9.003	18.843	-21.482	1.00	0.00
ATOM	1697	O3	LIG	96	-6.215	17.387	-22.412	1.00	0.00
ATOM	1698	O4	LIG	96	-8.190	16.417	-21.177	1.00	0.00
ATOM	1699	C1	LIG	96	-2.734	18.369	-13.773	1.00	0.00
ATOM	1700	H1	LIG	96	-2.333	19.346	-14.068	1.00	0.00
ATOM	1701	H2	LIG	96	-3.645	18.576	-13.197	1.00	0.00
ATOM	1702	C2	LIG	96	-1.719	17.656	-12.872	1.00	0.00
ATOM	1703	H3	LIG	96	-0.808	17.449	-13.447	1.00	0.00
ATOM	1704	H4	LIG	96	-2.121	16.678	-12.577	1.00	0.00
ATOM	1705	C3	LIG	96	-3.101	17.573	-15.030	1.00	0.00
ATOM	1706	H5	LIG	96	-3.505	16.595	-14.735	1.00	0.00
ATOM	1707	H6	LIG	96	-2.189	17.364	-15.605	1.00	0.00
ATOM	1708	C4	LIG	96	-1.351	18.450	-11.613	1.00	0.00
ATOM	1709	H7	LIG	96	-2.263	18.657	-11.037	1.00	0.00
ATOM	1710	H8	LIG	96	-0.951	19.429	-11.907	1.00	0.00
ATOM	1711	C5	LIG	96	-4.114	18.286	-15.933	1.00	0.00
ATOM	1712	H9	LIG	96	-5.025	18.498	-15.359	1.00	0.00
ATOM	1713	H10	LIG	96	-3.709	19.261	-16.232	1.00	0.00
ATOM	1714	C6	LIG	96	-0.336	17.739	-10.712	1.00	0.00



ATOM	1715	H11	LIG	96	0.575	17.532	-11.288	1.00	0.00
ATOM	1716	H12	LIG	96	-0.737	16.759	-10.418	1.00	0.00
ATOM	1717	C7	LIG	96	-4.480	17.486	-17.188	1.00	0.00
ATOM	1718	H13	LIG	96	-3.568	17.273	-17.760	1.00	0.00
ATOM	1719	H14	LIG	96	-4.890	16.513	-16.888	1.00	0.00
ATOM	1720	C8	LIG	96	0.032	18.532	-9.454	1.00	0.00
ATOM	1721	H15	LIG	96	0.434	19.511	-9.747	1.00	0.00
ATOM	1722	H16	LIG	96	-0.879	18.740	-8.877	1.00	0.00
ATOM	1723	C9	LIG	96	-5.490	18.213	-18.086	1.00	0.00
ATOM	1724	H17	LIG	96	-5.081	19.177	-18.408	1.00	0.00
ATOM	1725	H18	LIG	96	-6.407	18.424	-17.525	1.00	0.00
ATOM	1726	C10	LIG	96	1.048	17.821	-8.552	1.00	0.00
ATOM	1727	H19	LIG	96	1.957	17.614	-9.128	1.00	0.00
ATOM	1728	H20	LIG	96	0.646	16.844	-8.257	1.00	0.00
ATOM	1729	C11	LIG	96	-5.840	17.396	-19.315	1.00	0.00
ATOM	1730	H21	LIG	96	-4.962	17.203	-19.936	1.00	0.00
ATOM	1731	H22	LIG	96	-6.317	16.449	-19.050	1.00	0.00
ATOM	1732	C12	LIG	96	1.409	18.623	-7.297	1.00	0.00
ATOM	1733	H23	LIG	96	0.524	18.816	-6.683	1.00	0.00
ATOM	1734	H24	LIG	96	2.133	18.088	-6.676	1.00	0.00
ATOM	1735	H25	LIG	96	1.847	19.590	-7.559	1.00	0.00

TER

ATOM	1736	S1	LIG	97	8.307	20.084	13.957	1.00	0.00
ATOM	1737	O1	LIG	97	9.842	20.053	14.477	1.00	0.00
ATOM	1738	O2	LIG	97	7.680	19.177	15.136	1.00	0.00
ATOM	1739	H26	LIG	97	7.918	18.248	14.995	1.00	0.00
ATOM	1740	O3	LIG	97	7.751	21.405	14.119	1.00	0.00
ATOM	1741	O4	LIG	97	8.220	19.374	12.697	1.00	0.00
ATOM	1742	C1	LIG	97	17.094	22.025	14.310	1.00	0.00
ATOM	1743	H1	LIG	97	17.034	22.307	15.369	1.00	0.00
ATOM	1744	H2	LIG	97	17.380	20.966	14.293	1.00	0.00
ATOM	1745	C2	LIG	97	18.190	22.854	13.629	1.00	0.00
ATOM	1746	H3	LIG	97	17.905	23.914	13.646	1.00	0.00
ATOM	1747	H4	LIG	97	18.250	22.573	12.569	1.00	0.00
ATOM	1748	C3	LIG	97	15.714	22.187	13.664	1.00	0.00
ATOM	1749	H5	LIG	97	15.775	21.903	12.605	1.00	0.00
ATOM	1750	H6	LIG	97	15.430	23.247	13.679	1.00	0.00
ATOM	1751	C4	LIG	97	19.572	22.693	14.273	1.00	0.00
ATOM	1752	H7	LIG	97	19.858	21.633	14.255	1.00	0.00
ATOM	1753	H8	LIG	97	19.512	22.972	15.333	1.00	0.00
ATOM	1754	C5	LIG	97	14.618	21.361	14.347	1.00	0.00
ATOM	1755	H9	LIG	97	14.902	20.301	14.335	1.00	0.00
ATOM	1756	H10	LIG	97	14.554	21.647	15.405	1.00	0.00
ATOM	1757	C6	LIG	97	20.667	23.522	13.593	1.00	0.00

ATOM	1758	H11	LIG	97	20.381	24.581	13.610	1.00	0.00
ATOM	1759	H12	LIG	97	20.728	23.242	12.533	1.00	0.00
ATOM	1760	C7	LIG	97	13.240	21.523	13.697	1.00	0.00
ATOM	1761	H13	LIG	97	12.958	22.584	13.707	1.00	0.00
ATOM	1762	H14	LIG	97	13.303	21.232	12.640	1.00	0.00
ATOM	1763	C8	LIG	97	22.049	23.362	14.236	1.00	0.00
ATOM	1764	H15	LIG	97	21.991	23.642	15.296	1.00	0.00
ATOM	1765	H16	LIG	97	22.335	22.301	14.220	1.00	0.00
ATOM	1766	C9	LIG	97	12.150	20.696	14.392	1.00	0.00
ATOM	1767	H17	LIG	97	12.065	20.995	15.442	1.00	0.00
ATOM	1768	H18	LIG	97	12.420	19.635	14.380	1.00	0.00
ATOM	1769	C10	LIG	97	23.146	24.190	13.557	1.00	0.00
ATOM	1770	H19	LIG	97	22.859	25.248	13.573	1.00	0.00
ATOM	1771	H20	LIG	97	23.205	23.908	12.498	1.00	0.00
ATOM	1772	C11	LIG	97	10.800	20.869	13.724	1.00	0.00
ATOM	1773	H21	LIG	97	10.463	21.908	13.756	1.00	0.00
ATOM	1774	H22	LIG	97	10.811	20.520	12.688	1.00	0.00
ATOM	1775	C12	LIG	97	24.522	24.023	14.208	1.00	0.00
ATOM	1776	H23	LIG	97	24.850	22.979	14.176	1.00	0.00
ATOM	1777	H24	LIG	97	25.280	24.625	13.699	1.00	0.00
ATOM	1778	H25	LIG	97	24.503	24.331	15.257	1.00	0.00

TER

ATOM	1779	S1	LIG	98	5.571	-25.030	4.415	1.00	0.00
ATOM	1780	O1	LIG	98	5.121	-23.477	4.282	1.00	0.00
ATOM	1781	O2	LIG	98	6.558	-25.059	3.138	1.00	0.00
ATOM	1782	H26	LIG	98	6.036	-25.074	2.321	1.00	0.00
ATOM	1783	O3	LIG	98	6.403	-25.211	5.578	1.00	0.00
ATOM	1784	O4	LIG	98	4.423	-25.878	4.163	1.00	0.00
ATOM	1785	C1	LIG	98	1.598	-17.229	6.530	1.00	0.00
ATOM	1786	H1	LIG	98	2.540	-16.674	6.438	1.00	0.00
ATOM	1787	H2	LIG	98	1.106	-17.156	5.551	1.00	0.00
ATOM	1788	C2	LIG	98	0.716	-16.555	7.588	1.00	0.00
ATOM	1789	H3	LIG	98	1.207	-16.627	8.567	1.00	0.00
ATOM	1790	H4	LIG	98	-0.227	-17.110	7.680	1.00	0.00
ATOM	1791	C3	LIG	98	1.904	-18.699	6.834	1.00	0.00
ATOM	1792	H5	LIG	98	0.961	-19.254	6.924	1.00	0.00
ATOM	1793	H6	LIG	98	2.393	-18.771	7.815	1.00	0.00
ATOM	1794	C4	LIG	98	0.408	-15.084	7.285	1.00	0.00
ATOM	1795	H7	LIG	98	-0.085	-15.012	6.306	1.00	0.00
ATOM	1796	H8	LIG	98	1.350	-14.529	7.192	1.00	0.00
ATOM	1797	C5	LIG	98	2.788	-19.372	5.778	1.00	0.00
ATOM	1798	H9	LIG	98	2.301	-19.298	4.797	1.00	0.00
ATOM	1799	H10	LIG	98	3.733	-18.820	5.691	1.00	0.00
ATOM	1800	C6	LIG	98	-0.473	-14.410	8.343	1.00	0.00

ATOM	1801	H11	LIG	98	0.018	-14.483	9.322	1.00	0.00
ATOM	1802	H12	LIG	98	-1.416	-14.966	8.436	1.00	0.00
ATOM	1803	C7	LIG	98	3.089	-20.843	6.084	1.00	0.00
ATOM	1804	H13	LIG	98	3.574	-20.916	7.066	1.00	0.00
ATOM	1805	H14	LIG	98	2.145	-21.395	6.166	1.00	0.00
ATOM	1806	C8	LIG	98	-0.782	-12.940	8.041	1.00	0.00
ATOM	1807	H15	LIG	98	0.160	-12.383	7.949	1.00	0.00
ATOM	1808	H16	LIG	98	-1.273	-12.867	7.062	1.00	0.00
ATOM	1809	C9	LIG	98	3.980	-21.504	5.023	1.00	0.00
ATOM	1810	H17	LIG	98	4.934	-20.971	4.949	1.00	0.00
ATOM	1811	H18	LIG	98	3.500	-21.442	4.041	1.00	0.00
ATOM	1812	C10	LIG	98	-1.663	-12.265	9.099	1.00	0.00
ATOM	1813	H19	LIG	98	-1.172	-12.338	10.077	1.00	0.00
ATOM	1814	H20	LIG	98	-2.605	-12.820	9.190	1.00	0.00
ATOM	1815	C11	LIG	98	4.256	-22.959	5.347	1.00	0.00
ATOM	1816	H21	LIG	98	4.781	-23.069	6.299	1.00	0.00
ATOM	1817	H22	LIG	98	3.337	-23.552	5.365	1.00	0.00
ATOM	1818	C12	LIG	98	-1.964	-10.796	8.788	1.00	0.00
ATOM	1819	H23	LIG	98	-2.486	-10.693	7.831	1.00	0.00
ATOM	1820	H24	LIG	98	-2.595	-10.345	9.559	1.00	0.00
ATOM	1821	H25	LIG	98	-1.044	-10.207	8.726	1.00	0.00

TER

ATOM	1822	S1	LIG	99	-23.498	13.100	8.915	1.00	0.00
ATOM	1823	O1	LIG	99	-23.309	12.620	10.453	1.00	0.00
ATOM	1824	O2	LIG	99	-24.934	13.813	9.107	1.00	0.00
ATOM	1825	H26	LIG	99	-25.625	13.139	9.191	1.00	0.00
ATOM	1826	O3	LIG	99	-22.560	14.148	8.600	1.00	0.00
ATOM	1827	O4	LIG	99	-23.644	11.932	8.070	1.00	0.00
ATOM	1828	C1	LIG	99	-19.514	9.563	16.177	1.00	0.00
ATOM	1829	H1	LIG	99	-19.704	10.464	16.774	1.00	0.00
ATOM	1830	H2	LIG	99	-20.355	8.886	16.371	1.00	0.00
ATOM	1831	C2	LIG	99	-18.215	8.904	16.658	1.00	0.00
ATOM	1832	H3	LIG	99	-17.373	9.581	16.464	1.00	0.00
ATOM	1833	H4	LIG	99	-18.024	8.003	16.060	1.00	0.00
ATOM	1834	C3	LIG	99	-19.496	9.936	14.691	1.00	0.00
ATOM	1835	H5	LIG	99	-19.308	9.034	14.093	1.00	0.00
ATOM	1836	H6	LIG	99	-18.653	10.611	14.497	1.00	0.00
ATOM	1837	C4	LIG	99	-18.230	8.530	18.144	1.00	0.00
ATOM	1838	H7	LIG	99	-19.072	7.852	18.338	1.00	0.00
ATOM	1839	H8	LIG	99	-18.423	9.430	18.742	1.00	0.00
ATOM	1840	C5	LIG	99	-20.793	10.598	14.210	1.00	0.00
ATOM	1841	H9	LIG	99	-21.638	9.925	14.406	1.00	0.00
ATOM	1842	H10	LIG	99	-20.980	11.501	14.804	1.00	0.00
ATOM	1843	C6	LIG	99	-16.932	7.871	18.626	1.00	0.00

ATOM	1844	H11	LIG	99	-16.091	8.549	18.431	1.00	0.00
ATOM	1845	H12	LIG	99	-16.740	6.970	18.028	1.00	0.00
ATOM	1846	C7	LIG	99	-20.773	10.966	12.723	1.00	0.00
ATOM	1847	H13	LIG	99	-19.927	11.637	12.528	1.00	0.00
ATOM	1848	H14	LIG	99	-20.591	10.061	12.129	1.00	0.00
ATOM	1849	C8	LIG	99	-16.947	7.497	20.112	1.00	0.00
ATOM	1850	H15	LIG	99	-17.138	8.397	20.711	1.00	0.00
ATOM	1851	H16	LIG	99	-17.789	6.820	20.306	1.00	0.00
ATOM	1852	C9	LIG	99	-22.074	11.633	12.255	1.00	0.00
ATOM	1853	H17	LIG	99	-22.254	12.549	12.828	1.00	0.00
ATOM	1854	H18	LIG	99	-22.924	10.967	12.440	1.00	0.00
ATOM	1855	C10	LIG	99	-15.649	6.839	20.594	1.00	0.00
ATOM	1856	H19	LIG	99	-14.808	7.515	20.399	1.00	0.00
ATOM	1857	H20	LIG	99	-15.459	5.938	19.997	1.00	0.00
ATOM	1858	C11	LIG	99	-22.030	11.979	10.780	1.00	0.00
ATOM	1859	H21	LIG	99	-21.227	12.684	10.554	1.00	0.00
ATOM	1860	H22	LIG	99	-21.921	11.088	10.156	1.00	0.00
ATOM	1861	C12	LIG	99	-15.673	6.469	22.080	1.00	0.00
ATOM	1862	H23	LIG	99	-16.484	5.766	22.300	1.00	0.00
ATOM	1863	H24	LIG	99	-14.736	6.001	22.391	1.00	0.00
ATOM	1864	H25	LIG	99	-15.826	7.354	22.706	1.00	0.00

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ATOM	1865	S1	LIG	100	-7.086	-20.723	-11.396	1.00	0.00
ATOM	1866	O1	LIG	100	-5.565	-20.355	-11.821	1.00	0.00
ATOM	1867	O2	LIG	100	-6.758	-22.143	-10.701	1.00	0.00
ATOM	1868	H26	LIG	100	-6.577	-22.807	-11.384	1.00	0.00
ATOM	1869	O3	LIG	100	-7.536	-19.847	-10.344	1.00	0.00
ATOM	1870	O4	LIG	100	-7.873	-20.937	-12.594	1.00	0.00
ATOM	1871	C1	LIG	100	-0.205	-15.888	-14.619	1.00	0.00
ATOM	1872	H1	LIG	100	0.381	-16.030	-13.703	1.00	0.00
ATOM	1873	H2	LIG	100	0.103	-16.689	-15.304	1.00	0.00
ATOM	1874	C2	LIG	100	0.149	-14.532	-15.240	1.00	0.00
ATOM	1875	H3	LIG	100	-0.158	-13.730	-14.556	1.00	0.00
ATOM	1876	H4	LIG	100	-0.437	-14.389	-16.157	1.00	0.00
ATOM	1877	C3	LIG	100	-1.695	-16.043	-14.297	1.00	0.00
ATOM	1878	H5	LIG	100	-2.281	-15.903	-15.215	1.00	0.00
ATOM	1879	H6	LIG	100	-2.002	-15.240	-13.614	1.00	0.00
ATOM	1880	C4	LIG	100	1.639	-14.374	-15.565	1.00	0.00
ATOM	1881	H7	LIG	100	1.946	-15.176	-16.250	1.00	0.00
ATOM	1882	H8	LIG	100	2.226	-14.518	-14.648	1.00	0.00
ATOM	1883	C5	LIG	100	-2.049	-17.398	-13.674	1.00	0.00
ATOM	1884	H9	LIG	100	-1.739	-18.202	-14.354	1.00	0.00
ATOM	1885	H10	LIG	100	-1.467	-17.538	-12.754	1.00	0.00
ATOM	1886	C6	LIG	100	1.994	-13.018	-16.184	1.00	0.00



ATOM	1887	H11	LIG	100	1.686	-12.217	-15.500	1.00	0.00
ATOM	1888	H12	LIG	100	1.407	-12.874	-17.101	1.00	0.00
ATOM	1889	C7	LIG	100	-3.540	-17.551	-13.355	1.00	0.00
ATOM	1890	H13	LIG	100	-3.849	-16.745	-12.676	1.00	0.00
ATOM	1891	H14	LIG	100	-4.121	-17.417	-14.276	1.00	0.00
ATOM	1892	C8	LIG	100	3.483	-12.860	-16.509	1.00	0.00
ATOM	1893	H15	LIG	100	4.071	-13.003	-15.593	1.00	0.00
ATOM	1894	H16	LIG	100	3.791	-13.662	-17.193	1.00	0.00
ATOM	1895	C9	LIG	100	-3.880	-18.909	-12.726	1.00	0.00
ATOM	1896	H17	LIG	100	-3.320	-19.043	-11.795	1.00	0.00
ATOM	1897	H18	LIG	100	-3.582	-19.719	-13.400	1.00	0.00
ATOM	1898	C10	LIG	100	3.839	-11.504	-17.129	1.00	0.00
ATOM	1899	H19	LIG	100	3.531	-10.704	-16.445	1.00	0.00
ATOM	1900	H20	LIG	100	3.253	-11.362	-18.045	1.00	0.00
ATOM	1901	C11	LIG	100	-5.362	-19.035	-12.429	1.00	0.00
ATOM	1902	H21	LIG	100	-5.698	-18.277	-11.718	1.00	0.00
ATOM	1903	H22	LIG	100	-5.966	-18.978	-13.338	1.00	0.00
ATOM	1904	C12	LIG	100	5.330	-11.356	-17.449	1.00	0.00
ATOM	1905	H23	LIG	100	5.659	-12.123	-18.157	1.00	0.00
ATOM	1906	H24	LIG	100	5.549	-10.380	-17.890	1.00	0.00
ATOM	1907	H25	LIG	100	5.940	-11.457	-16.546	1.00	0.00

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END

**Table T:** The number of atoms present in the system of MO-Sum

ATOM	1	N	PRO	1	-12.882	10.175	-6.544	1.00	0.00
ATOM	2	H2	PRO	1	-13.237	9.245	-6.372	1.00	0.00
ATOM	3	H3	PRO	1	-13.507	10.904	-6.861	1.00	0.00
ATOM	4	CD	PRO	1	-12.277	10.723	-5.309	1.00	0.00
ATOM	5	HD2	PRO	1	-12.263	9.947	-4.545	1.00	0.00
ATOM	6	HD3	PRO	1	-12.878	11.564	-4.961	1.00	0.00
ATOM	7	CG	PRO	1	-10.891	11.143	-5.735	1.00	0.00
ATOM	8	HG2	PRO	1	-10.173	10.610	-5.112	1.00	0.00
ATOM	9	HG3	PRO	1	-10.797	12.215	-5.561	1.00	0.00
ATOM	10	CB	PRO	1	-10.701	10.814	-7.207	1.00	0.00
ATOM	11	HB2	PRO	1	-9.765	10.275	-7.347	1.00	0.00
ATOM	12	HB3	PRO	1	-10.698	11.714	-7.823	1.00	0.00
ATOM	13	CA	PRO	1	-11.885	9.915	-7.598	1.00	0.00
ATOM	14	HA	PRO	1	-12.323	10.223	-8.548	1.00	0.00
ATOM	15	C	PRO	1	-11.458	8.428	-7.685	1.00	0.00
ATOM	16	O	PRO	1	-11.732	7.639	-6.761	1.00	0.00
ATOM	17	N	PRO	2	-10.832	8.040	-8.801	1.00	0.00
ATOM	18	CD	PRO	2	-10.428	8.911	-9.910	1.00	0.00
ATOM	19	HD2	PRO	2	-9.665	9.603	-9.553	1.00	0.00

ATOM	20	HD3 PRO	2	-11.298	9.474	-10.248	1.00	0.00
ATOM	21	CG PRO	2	-9.917	7.987	-10.946	1.00	0.00
ATOM	22	HG2 PRO	2	-8.905	8.297	-11.205	1.00	0.00
ATOM	23	HG3 PRO	2	-10.559	8.075	-11.823	1.00	0.00
ATOM	24	CB PRO	2	-9.940	6.616	-10.414	1.00	0.00
ATOM	25	HB2 PRO	2	-8.926	6.220	-10.462	1.00	0.00
ATOM	26	HB3 PRO	2	-10.609	5.971	-10.983	1.00	0.00
ATOM	27	CA PRO	2	-10.397	6.690	-8.970	1.00	0.00
ATOM	28	HA PRO	2	-11.246	6.032	-8.783	1.00	0.00
ATOM	29	C PRO	2	-9.254	6.332	-8.016	1.00	0.00
ATOM	30	O PRO	2	-8.511	7.152	-7.566	1.00	0.00
ATOM	31	N THR	3	-9.105	5.050	-7.789	1.00	0.00
ATOM	32	H THR	3	-9.617	4.357	-8.316	1.00	0.00
ATOM	33	CA THR	3	-8.205	4.599	-6.764	1.00	0.00
ATOM	34	HA THR	3	-8.538	5.042	-5.825	1.00	0.00
ATOM	35	CB THR	3	-8.316	3.072	-6.652	1.00	0.00
ATOM	36	HB THR	3	-8.023	2.628	-7.603	1.00	0.00
ATOM	37	CG2 THR	3	-7.444	2.562	-5.583	1.00	0.00
ATOM	38	HG21 THR	3	-7.737	3.006	-4.632	1.00	0.00
ATOM	39	HG22 THR	3	-7.539	1.478	-5.522	1.00	0.00
ATOM	40	HG23 THR	3	-6.409	2.824	-5.802	1.00	0.00
ATOM	41	OG1 THR	3	-9.673	2.765	-6.253	1.00	0.00

ATOM	42	HG1 THR	3	-9.776	1.814	-6.174	1.00	0.00
ATOM	43	C THR	3	-6.786	4.961	-7.059	1.00	0.00
ATOM	44	O THR	3	-6.084	5.419	-6.177	1.00	0.00
ATOM	45	N LEU	4	-6.369	4.769	-8.308	1.00	0.00
ATOM	46	H LEU	4	-6.924	4.383	-9.059	1.00	0.00
ATOM	47	CA LEU	4	-4.950	5.091	-8.578	1.00	0.00
ATOM	48	HA LEU	4	-4.334	4.560	-7.853	1.00	0.00
ATOM	49	CB LEU	4	-4.496	4.700	-9.986	1.00	0.00
ATOM	50	HB2 LEU	4	-4.668	3.624	-10.011	1.00	0.00
ATOM	51	HB3 LEU	4	-5.152	5.189	-10.706	1.00	0.00
ATOM	52	CG LEU	4	-3.062	4.987	-10.339	1.00	0.00
ATOM	53	HG LEU	4	-2.919	6.063	-10.237	1.00	0.00
ATOM	54	CD1 LEU	4	-2.050	4.261	-9.483	1.00	0.00
ATOM	55	HD11 LEU	4	-2.193	3.185	-9.585	1.00	0.00
ATOM	56	HD12 LEU	4	-1.044	4.526	-9.806	1.00	0.00
ATOM	57	HD13 LEU	4	-2.184	4.548	-8.440	1.00	0.00
ATOM	58	CD2 LEU	4	-2.903	4.638	-11.783	1.00	0.00
ATOM	59	HD21 LEU	4	-3.581	5.247	-12.382	1.00	0.00
ATOM	60	HD22 LEU	4	-1.876	4.829	-12.093	1.00	0.00
ATOM	61	HD23 LEU	4	-3.137	3.584	-11.931	1.00	0.00
ATOM	62	C LEU	4	-4.680	6.568	-8.364	1.00	0.00
ATOM	63	O LEU	4	-3.673	6.922	-7.842	1.00	0.00

ATOM	64	N	GLN	5	-5.606	7.416	-8.758	1.00	0.00
ATOM	65	H	GLN	5	-6.422	7.123	-9.276	1.00	0.00
ATOM	66	CA	GLN	5	-5.400	8.841	-8.545	1.00	0.00
ATOM	67	HA	GLN	5	-4.417	9.143	-8.905	1.00	0.00
ATOM	68	CB	GLN	5	-6.474	9.629	-9.326	1.00	0.00
ATOM	69	HB2	GLN	5	-6.344	9.399	-10.384	1.00	0.00
ATOM	70	HB3	GLN	5	-7.449	9.271	-8.994	1.00	0.00
ATOM	71	CG	GLN	5	-6.390	11.156	-9.119	1.00	0.00
ATOM	72	HG2	GLN	5	-6.340	11.412	-8.061	1.00	0.00
ATOM	73	HG3	GLN	5	-5.478	11.487	-9.616	1.00	0.00
ATOM	74	CD	GLN	5	-7.571	11.884	-9.739	1.00	0.00
ATOM	75	OE1	GLN	5	-8.205	11.379	-10.706	1.00	0.00
ATOM	76	NE2	GLN	5	-7.922	13.046	-9.154	1.00	0.00
ATOM	77	HE21	GLN	5	-8.700	13.578	-9.520	1.00	0.00
ATOM	78	HE22	GLN	5	-7.407	13.381	-8.353	1.00	0.00
ATOM	79	C	GLN	5	-5.374	9.222	-7.054	1.00	0.00
ATOM	80	O	GLN	5	-4.506	9.997	-6.635	1.00	0.00
ATOM	81	N	ARG	6	-6.165	8.510	-6.217	1.00	0.00
ATOM	82	H	ARG	6	-6.791	7.811	-6.591	1.00	0.00
ATOM	83	CA	ARG	6	-6.171	8.738	-4.818	1.00	0.00
ATOM	84	HA	ARG	6	-6.291	9.804	-4.621	1.00	0.00
ATOM	85	CB	ARG	6	-7.308	7.994	-4.159	1.00	0.00

ATOM	86	HB2 ARG	6	-7.215	6.957	-4.481	1.00	0.00
ATOM	87	HB3 ARG	6	-7.127	8.059	-3.086	1.00	0.00
ATOM	88	CG ARG	6	-8.705	8.494	-4.466	1.00	0.00
ATOM	89	HG2 ARG	6	-8.674	9.584	-4.491	1.00	0.00
ATOM	90	HG3 ARG	6	-8.989	8.117	-5.449	1.00	0.00
ATOM	91	CD ARG	6	-9.758	8.026	-3.403	1.00	0.00
ATOM	92	HD2 ARG	6	-9.621	8.649	-2.520	1.00	0.00
ATOM	93	HD3 ARG	6	-10.746	8.210	-3.827	1.00	0.00
ATOM	94	NE ARG	6	-9.673	6.608	-3.000	1.00	0.00
ATOM	95	HE ARG	6	-9.146	6.415	-2.161	1.00	0.00
ATOM	96	CZ ARG	6	-10.237	5.577	-3.656	1.00	0.00
ATOM	97	NH1 ARG	6	-10.969	5.759	-4.756	1.00	0.00
ATOM	98	HH11 ARG	6	-11.111	6.692	-5.116	1.00	0.00
ATOM	99	HH12 ARG	6	-11.378	4.963	-5.224	1.00	0.00
ATOM	100	NH2 ARG	6	-10.071	4.317	-3.211	1.00	0.00
ATOM	101	HH21 ARG	6	-9.521	4.146	-2.382	1.00	0.00
ATOM	102	HH22 ARG	6	-10.498	3.549	-3.709	1.00	0.00
ATOM	103	C ARG	6	-4.829	8.280	-4.275	1.00	0.00
ATOM	104	O ARG	6	-4.268	8.857	-3.357	1.00	0.00
ATOM	105	N CYX	7	-4.343	7.120	-4.791	1.00	0.00
ATOM	106	H CYX	7	-4.863	6.546	-5.439	1.00	0.00
ATOM	107	CA CYX	7	-3.049	6.656	-4.351	1.00	0.00

ATOM	108	HA	CYX	7	-3.058	6.510	-3.271	1.00	0.00
ATOM	109	CB	CYX	7	-2.690	5.296	-5.037	1.00	0.00
ATOM	110	HB2	CYX	7	-3.306	4.502	-4.615	1.00	0.00
ATOM	111	HB3	CYX	7	-2.876	5.369	-6.109	1.00	0.00
ATOM	112	SG	CYX	7	-0.999	4.817	-4.885	1.00	0.00
ATOM	113	C	CYX	7	-1.950	7.688	-4.636	1.00	0.00
ATOM	114	O	CYX	7	-1.154	8.029	-3.773	1.00	0.00
ATOM	115	N	CYX	8	-1.924	8.284	-5.810	1.00	0.00
ATOM	116	H	CYX	8	-2.668	8.146	-6.479	1.00	0.00
ATOM	117	CA	CYX	8	-0.844	9.175	-6.162	1.00	0.00
ATOM	118	HA	CYX	8	0.103	8.682	-5.946	1.00	0.00
ATOM	119	CB	CYX	8	-0.865	9.556	-7.607	1.00	0.00
ATOM	120	HB2	CYX	8	-1.847	9.954	-7.864	1.00	0.00
ATOM	121	HB3	CYX	8	-0.106	10.315	-7.794	1.00	0.00
ATOM	122	SG	CYX	8	-0.560	8.146	-8.767	1.00	0.00
ATOM	123	C	CYX	8	-0.955	10.492	-5.357	1.00	0.00
ATOM	124	O	CYX	8	0.009	11.006	-4.957	1.00	0.00
ATOM	125	N	ARG	9	-2.185	10.833	-5.031	1.00	0.00
ATOM	126	H	ARG	9	-2.973	10.348	-5.436	1.00	0.00
ATOM	127	CA	ARG	9	-2.458	12.009	-4.125	1.00	0.00
ATOM	128	HA	ARG	9	-1.869	12.858	-4.473	1.00	0.00
ATOM	129	CB	ARG	9	-3.911	12.411	-4.097	1.00	0.00

ATOM	130	HB2	ARG	9	-4.214	12.729	-5.095	1.00	0.00
ATOM	131	HB3	ARG	9	-4.513	11.556	-3.791	1.00	0.00
ATOM	132	CG	ARG	9	-4.115	13.527	-3.139	1.00	0.00
ATOM	133	HG2	ARG	9	-3.774	13.188	-2.161	1.00	0.00
ATOM	134	HG3	ARG	9	-3.497	14.362	-3.470	1.00	0.00
ATOM	135	CD	ARG	9	-5.584	13.984	-3.040	1.00	0.00
ATOM	136	HD2	ARG	9	-5.644	14.672	-2.197	1.00	0.00
ATOM	137	HD3	ARG	9	-5.810	14.521	-3.962	1.00	0.00
ATOM	138	NE	ARG	9	-6.579	12.930	-2.856	1.00	0.00
ATOM	139	HE	ARG	9	-7.177	12.779	-3.656	1.00	0.00
ATOM	140	CZ	ARG	9	-6.775	12.177	-1.754	1.00	0.00
ATOM	141	NH1	ARG	9	-6.039	12.314	-0.639	1.00	0.00
ATOM	142	HH11	ARG	9	-5.303	13.005	-0.605	1.00	0.00
ATOM	143	HH12	ARG	9	-6.225	11.726	0.160	1.00	0.00
ATOM	144	NH2	ARG	9	-7.734	11.241	-1.770	1.00	0.00
ATOM	145	HH21	ARG	9	-8.295	11.111	-2.600	1.00	0.00
ATOM	146	HH22	ARG	9	-7.892	10.670	-0.952	1.00	0.00
ATOM	147	C	ARG	9	-1.969	11.731	-2.716	1.00	0.00
ATOM	148	O	ARG	9	-1.193	12.469	-2.123	1.00	0.00
ATOM	149	N	GLN	10	-2.240	10.525	-2.155	1.00	0.00
ATOM	150	H	GLN	10	-2.834	9.823	-2.574	1.00	0.00
ATOM	151	CA	GLN	10	-1.693	10.266	-0.846	1.00	0.00



ATOM	152	HA	GLN	10	-1.932	11.074	-0.155	1.00	0.00
ATOM	153	CB	GLN	10	-2.332	8.948	-0.312	1.00	0.00
ATOM	154	HB2	GLN	10	-2.019	8.168	-1.006	1.00	0.00
ATOM	155	HB3	GLN	10	-1.874	8.774	0.661	1.00	0.00
ATOM	156	CG	GLN	10	-3.830	8.923	-0.173	1.00	0.00
ATOM	157	HG2	GLN	10	-3.946	9.517	0.734	1.00	0.00
ATOM	158	HG3	GLN	10	-4.316	9.433	-1.005	1.00	0.00
ATOM	159	CD	GLN	10	-4.518	7.562	0.039	1.00	0.00
ATOM	160	OE1	GLN	10	-3.968	6.477	-0.157	1.00	0.00
ATOM	161	NE2	GLN	10	-5.798	7.649	0.297	1.00	0.00
ATOM	162	HE21	GLN	10	-6.337	6.809	0.451	1.00	0.00
ATOM	163	HE22	GLN	10	-6.241	8.556	0.340	1.00	0.00
ATOM	164	C	GLN	10	-0.258	10.162	-0.749	1.00	0.00
ATOM	165	O	GLN	10	0.420	10.662	0.098	1.00	0.00
ATOM	166	N	LEU	11	0.352	9.533	-1.802	1.00	0.00
ATOM	167	H	LEU	11	-0.225	9.045	-2.473	1.00	0.00
ATOM	168	CA	LEU	11	1.765	9.401	-1.905	1.00	0.00
ATOM	169	HA	LEU	11	2.180	9.082	-0.949	1.00	0.00
ATOM	170	CB	LEU	11	2.123	8.349	-2.973	1.00	0.00
ATOM	171	HB2	LEU	11	1.504	7.484	-2.735	1.00	0.00
ATOM	172	HB3	LEU	11	1.836	8.743	-3.948	1.00	0.00
ATOM	173	CG	LEU	11	3.541	7.946	-3.004	1.00	0.00

ATOM	174	HG	LEU	11	4.132	8.848	-3.164	1.00	0.00
ATOM	175	CD1	LEU	11	4.005	7.255	-1.733	1.00	0.00
ATOM	176	HD11	LEU	11	3.414	6.353	-1.573	1.00	0.00
ATOM	177	HD12	LEU	11	5.057	6.988	-1.828	1.00	0.00
ATOM	178	HD13	LEU	11	3.877	7.928	-0.886	1.00	0.00
ATOM	179	CD2	LEU	11	3.788	7.017	-4.185	1.00	0.00
ATOM	180	HD21	LEU	11	3.540	7.534	-5.113	1.00	0.00
ATOM	181	HD22	LEU	11	4.837	6.723	-4.203	1.00	0.00
ATOM	182	HD23	LEU	11	3.163	6.129	-4.087	1.00	0.00
ATOM	183	C	LEU	11	2.494	10.707	-2.111	1.00	0.00
ATOM	184	O	LEU	11	3.562	10.917	-1.617	1.00	0.00
ATOM	185	N	ARG	12	1.812	11.549	-2.879	1.00	0.00
ATOM	186	H	ARG	12	0.914	11.327	-3.285	1.00	0.00
ATOM	187	CA	ARG	12	2.413	12.898	-3.170	1.00	0.00
ATOM	188	HA	ARG	12	3.404	12.774	-3.605	1.00	0.00
ATOM	189	CB	ARG	12	1.565	13.652	-4.130	1.00	0.00
ATOM	190	HB2	ARG	12	1.602	13.146	-5.095	1.00	0.00
ATOM	191	HB3	ARG	12	0.540	13.652	-3.760	1.00	0.00
ATOM	192	CG	ARG	12	2.044	15.083	-4.291	1.00	0.00
ATOM	193	HG2	ARG	12	2.004	15.544	-3.304	1.00	0.00
ATOM	194	HG3	ARG	12	3.079	15.035	-4.628	1.00	0.00
ATOM	195	CD	ARG	12	1.238	15.907	-5.263	1.00	0.00

ATOM	196	HD2 ARG	12	1.679	16.904	-5.273	1.00	0.00
ATOM	197	HD3 ARG	12	1.360	15.447	-6.244	1.00	0.00
ATOM	198	NE ARG	12	-0.137	16.026	-4.989	1.00	0.00
ATOM	199	HE ARG	12	-0.782	15.480	-5.543	1.00	0.00
ATOM	200	CZ ARG	12	-0.610	16.729	-3.997	1.00	0.00
ATOM	201	NH1 ARG	12	0.196	17.422	-3.236	1.00	0.00
ATOM	202	HH11 ARG	12	1.189	17.413	-3.418	1.00	0.00
ATOM	203	HH12 ARG	12	-0.179	17.964	-2.470	1.00	0.00
ATOM	204	NH2 ARG	12	-1.848	16.822	-3.825	1.00	0.00
ATOM	205	HH21 ARG	12	-2.480	16.351	-4.457	1.00	0.00
ATOM	206	HH22 ARG	12	-2.209	17.368	-3.055	1.00	0.00
ATOM	207	C ARG	12	2.516	13.654	-1.847	1.00	0.00
ATOM	208	O ARG	12	3.530	14.256	-1.633	1.00	0.00
ATOM	209	N ASN	13	1.548	13.446	-0.969	1.00	0.00
ATOM	210	H ASN	13	0.699	12.984	-1.262	1.00	0.00
ATOM	211	CA ASN	13	1.561	14.143	0.393	1.00	0.00
ATOM	212	HA ASN	13	1.968	15.150	0.294	1.00	0.00
ATOM	213	CB ASN	13	0.185	14.240	0.923	1.00	0.00
ATOM	214	HB2 ASN	13	-0.364	13.301	0.850	1.00	0.00
ATOM	215	HB3 ASN	13	0.306	14.509	1.972	1.00	0.00
ATOM	216	CG ASN	13	-0.606	15.308	0.246	1.00	0.00
ATOM	217	OD1 ASN	13	-0.388	16.466	0.504	1.00	0.00

ATOM	218	ND2	ASN	13	-1.426	14.951	-0.661	1.00	0.00
ATOM	219	HD21	ASN	13	-1.979	15.648	-1.141	1.00	0.00
ATOM	220	HD22	ASN	13	-1.520	13.974	-0.896	1.00	0.00
ATOM	221	C	ASN	13	2.598	13.641	1.367	1.00	0.00
ATOM	222	O	ASN	13	2.854	14.216	2.453	1.00	0.00
ATOM	223	N	VAL	14	3.180	12.451	1.083	1.00	0.00
ATOM	224	H	VAL	14	2.724	11.831	0.429	1.00	0.00
ATOM	225	CA	VAL	14	4.313	12.001	1.732	1.00	0.00
ATOM	226	HA	VAL	14	4.452	12.339	2.759	1.00	0.00
ATOM	227	CB	VAL	14	4.363	10.408	1.709	1.00	0.00
ATOM	228	HB	VAL	14	4.287	10.055	0.681	1.00	0.00
ATOM	229	CG1	VAL	14	5.691	9.935	2.316	1.00	0.00
ATOM	230	HG11	VAL	14	5.767	10.288	3.344	1.00	0.00
ATOM	231	HG12	VAL	14	5.729	8.846	2.302	1.00	0.00
ATOM	232	HG13	VAL	14	6.520	10.335	1.733	1.00	0.00
ATOM	233	CG2	VAL	14	3.143	9.872	2.324	1.00	0.00
ATOM	234	HG21	VAL	14	2.272	10.217	1.765	1.00	0.00
ATOM	235	HG22	VAL	14	3.176	8.783	2.309	1.00	0.00
ATOM	236	HG23	VAL	14	3.073	10.219	3.355	1.00	0.00
ATOM	237	C	VAL	14	5.622	12.624	1.165	1.00	0.00
ATOM	238	O	VAL	14	5.788	12.748	-0.051	1.00	0.00
ATOM	239	N	SER	15	6.567	13.007	2.035	1.00	0.00

ATOM	240	H	SER	15	6.461	12.830	3.023	1.00	0.00
ATOM	241	CA	SER	15	7.813	13.609	1.569	1.00	0.00
ATOM	242	HA	SER	15	7.593	14.541	1.047	1.00	0.00
ATOM	243	CB	SER	15	8.738	13.909	2.724	1.00	0.00
ATOM	244	HB2	SER	15	8.984	13.023	3.309	1.00	0.00
ATOM	245	HB3	SER	15	9.657	14.404	2.411	1.00	0.00
ATOM	246	OG	SER	15	7.983	14.782	3.501	1.00	0.00
ATOM	247	HG	SER	15	8.488	15.040	4.275	1.00	0.00
ATOM	248	C	SER	15	8.572	12.694	0.731	1.00	0.00
ATOM	249	O	SER	15	8.578	11.468	1.024	1.00	0.00
ATOM	250	N	PRO	16	9.204	13.177	-0.333	1.00	0.00
ATOM	251	CD	PRO	16	9.145	14.580	-0.912	1.00	0.00
ATOM	252	HD2	PRO	16	9.607	15.281	-0.217	1.00	0.00
ATOM	253	HD3	PRO	16	8.105	14.864	-1.075	1.00	0.00
ATOM	254	CG	PRO	16	9.919	14.451	-2.209	1.00	0.00
ATOM	255	HG2	PRO	16	10.489	15.364	-2.380	1.00	0.00
ATOM	256	HG3	PRO	16	9.219	14.302	-3.032	1.00	0.00
ATOM	257	CB	PRO	16	10.807	13.282	-2.053	1.00	0.00
ATOM	258	HB2	PRO	16	11.725	13.516	-1.515	1.00	0.00
ATOM	259	HB3	PRO	16	11.054	12.843	-3.020	1.00	0.00
ATOM	260	CA	PRO	16	9.952	12.295	-1.229	1.00	0.00
ATOM	261	HA	PRO	16	9.223	11.814	-1.881	1.00	0.00

ATOM	262	C	PRO	16	10.786	11.225	-0.519	1.00	0.00
ATOM	263	O	PRO	16	10.730	10.022	-0.843	1.00	0.00
ATOM	264	N	PHE	17	11.536	11.627	0.496	1.00	0.00
ATOM	265	H	PHE	17	11.560	12.597	0.778	1.00	0.00
ATOM	266	CA	PHE	17	12.433	10.677	1.179	1.00	0.00
ATOM	267	HA	PHE	17	13.002	10.121	0.434	1.00	0.00
ATOM	268	CB	PHE	17	13.422	11.405	2.113	1.00	0.00
ATOM	269	HB2	PHE	17	14.217	11.831	1.501	1.00	0.00
ATOM	270	HB3	PHE	17	12.934	12.200	2.678	1.00	0.00
ATOM	271	CG	PHE	17	14.099	10.491	3.137	1.00	0.00
ATOM	272	CD1	PHE	17	15.080	9.559	2.732	1.00	0.00
ATOM	273	HD1	PHE	17	15.376	9.513	1.684	1.00	0.00
ATOM	274	CE1	PHE	17	15.672	8.697	3.667	1.00	0.00
ATOM	275	HE1	PHE	17	16.429	7.982	3.346	1.00	0.00
ATOM	276	CZ	PHE	17	15.289	8.755	5.015	1.00	0.00
ATOM	277	HZ	PHE	17	15.755	8.085	5.737	1.00	0.00
ATOM	278	CE2	PHE	17	14.317	9.665	5.434	1.00	0.00
ATOM	279	HE2	PHE	17	14.019	9.707	6.482	1.00	0.00
ATOM	280	CD2	PHE	17	13.725	10.524	4.505	1.00	0.00
ATOM	281	HD2	PHE	17	12.963	11.234	4.827	1.00	0.00
ATOM	282	C	PHE	17	11.663	9.598	1.959	1.00	0.00
ATOM	283	O	PHE	17	12.240	8.555	2.268	1.00	0.00

ATOM	284	N	CYX	18	10.406	9.860	2.284	1.00	0.00
ATOM	285	H	CYX	18	10.000	10.725	1.956	1.00	0.00
ATOM	286	CA	CYX	18	9.585	8.974	3.061	1.00	0.00
ATOM	287	HA	CYX	18	10.239	8.330	3.648	1.00	0.00
ATOM	288	CB	CYX	18	8.662	9.675	3.981	1.00	0.00
ATOM	289	HB2	CYX	18	8.154	10.477	3.445	1.00	0.00
ATOM	290	HB3	CYX	18	7.924	8.970	4.363	1.00	0.00
ATOM	291	SG	CYX	18	9.710	10.390	5.366	1.00	0.00
ATOM	292	C	CYX	18	8.687	8.102	2.107	1.00	0.00
ATOM	293	O	CYX	18	7.961	7.278	2.669	1.00	0.00
ATOM	294	N	ARG	19	8.729	8.286	0.771	1.00	0.00
ATOM	295	H	ARG	19	9.427	8.852	0.311	1.00	0.00
ATOM	296	CA	ARG	19	7.709	7.650	-0.047	1.00	0.00
ATOM	297	HA	ARG	19	6.740	7.819	0.423	1.00	0.00
ATOM	298	CB	ARG	19	7.656	8.171	-1.453	1.00	0.00
ATOM	299	HB2	ARG	19	8.667	8.273	-1.848	1.00	0.00
ATOM	300	HB3	ARG	19	7.088	7.484	-2.081	1.00	0.00
ATOM	301	CG	ARG	19	6.969	9.544	-1.448	1.00	0.00
ATOM	302	HG2	ARG	19	5.932	9.373	-1.157	1.00	0.00
ATOM	303	HG3	ARG	19	7.467	10.139	-0.683	1.00	0.00
ATOM	304	CD	ARG	19	7.005	10.274	-2.745	1.00	0.00
ATOM	305	HD2	ARG	19	8.038	10.401	-3.068	1.00	0.00

ATOM	306	HD3	ARG	19	6.455	9.712	-3.500	1.00	0.00
ATOM	307	NE	ARG	19	6.396	11.585	-2.607	1.00	0.00
ATOM	308	HE	ARG	19	5.701	11.669	-1.879	1.00	0.00
ATOM	309	CZ	ARG	19	6.704	12.657	-3.308	1.00	0.00
ATOM	310	NH1	ARG	19	7.652	12.627	-4.232	1.00	0.00
ATOM	311	HH11	ARG	19	8.153	11.769	-4.409	1.00	0.00
ATOM	312	HH12	ARG	19	7.869	13.463	-4.756	1.00	0.00
ATOM	313	NH2	ARG	19	5.994	13.789	-3.104	1.00	0.00
ATOM	314	HH21	ARG	19	5.246	13.797	-2.425	1.00	0.00
ATOM	315	HH22	ARG	19	6.214	14.622	-3.632	1.00	0.00
ATOM	316	C	ARG	19	8.003	6.128	-0.095	1.00	0.00
ATOM	317	O	ARG	19	7.093	5.379	0.093	1.00	0.00
ATOM	318	N	CYX	20	9.271	5.813	-0.265	1.00	0.00
ATOM	319	H	CYX	20	9.971	6.506	-0.489	1.00	0.00
ATOM	320	CA	CYX	20	9.651	4.338	-0.375	1.00	0.00
ATOM	321	HA	CYX	20	8.905	3.844	-0.999	1.00	0.00
ATOM	322	CB	CYX	20	11.015	4.097	-0.972	1.00	0.00
ATOM	323	HB2	CYX	20	11.764	4.646	-0.401	1.00	0.00
ATOM	324	HB3	CYX	20	11.243	3.032	-0.941	1.00	0.00
ATOM	325	SG	CYX	20	11.033	4.464	-2.734	1.00	0.00
ATOM	326	C	CYX	20	9.405	3.628	0.942	1.00	0.00
ATOM	327	O	CYX	20	8.750	2.580	0.964	1.00	0.00



ATOM	328	N	PRO	21	9.841	4.183	2.073	1.00	0.00
ATOM	329	CD	PRO	21	10.930	5.160	2.240	1.00	0.00
ATOM	330	HD2	PRO	21	10.605	6.132	1.866	1.00	0.00
ATOM	331	HD3	PRO	21	11.803	4.829	1.678	1.00	0.00
ATOM	332	CG	PRO	21	11.166	5.163	3.698	1.00	0.00
ATOM	333	HG2	PRO	21	11.390	6.187	3.998	1.00	0.00
ATOM	334	HG3	PRO	21	12.029	4.529	3.898	1.00	0.00
ATOM	335	CB	PRO	21	10.016	4.673	4.356	1.00	0.00
ATOM	336	HB2	PRO	21	9.285	5.458	4.551	1.00	0.00
ATOM	337	HB3	PRO	21	10.272	4.175	5.291	1.00	0.00
ATOM	338	CA	PRO	21	9.433	3.650	3.357	1.00	0.00
ATOM	339	HA	PRO	21	9.905	2.672	3.449	1.00	0.00
ATOM	340	C	PRO	21	7.953	3.511	3.555	1.00	0.00
ATOM	341	O	PRO	21	7.469	2.475	4.093	1.00	0.00
ATOM	342	N	SER	22	7.140	4.478	3.091	1.00	0.00
ATOM	343	H	SER	22	7.525	5.286	2.622	1.00	0.00
ATOM	344	CA	SER	22	5.775	4.437	3.313	1.00	0.00
ATOM	345	HA	SER	22	5.590	4.153	4.349	1.00	0.00
ATOM	346	CB	SER	22	5.111	5.798	3.051	1.00	0.00
ATOM	347	HB2	SER	22	5.393	6.200	2.077	1.00	0.00
ATOM	348	HB3	SER	22	4.025	5.732	3.115	1.00	0.00
ATOM	349	OG	SER	22	5.586	6.642	4.058	1.00	0.00

ATOM	350	HG	SER	22	5.204	7.517	3.949	1.00	0.00
ATOM	351	C	SER	22	5.071	3.314	2.447	1.00	0.00
ATOM	352	O	SER	22	4.134	2.746	2.892	1.00	0.00
ATOM	353	N	LEU	23	5.587	3.181	1.249	1.00	0.00
ATOM	354	H	LEU	23	6.328	3.805	0.961	1.00	0.00
ATOM	355	CA	LEU	23	5.105	2.175	0.283	1.00	0.00
ATOM	356	HA	LEU	23	4.026	2.298	0.188	1.00	0.00
ATOM	357	CB	LEU	23	5.721	2.271	-1.083	1.00	0.00
ATOM	358	HB2	LEU	23	6.728	2.649	-0.909	1.00	0.00
ATOM	359	HB3	LEU	23	5.775	1.338	-1.643	1.00	0.00
ATOM	360	CG	LEU	23	4.916	3.308	-1.891	1.00	0.00
ATOM	361	HG	LEU	23	4.767	4.221	-1.314	1.00	0.00
ATOM	362	CD1	LEU	23	5.715	3.615	-3.104	1.00	0.00
ATOM	363	HD11	LEU	23	5.863	2.703	-3.682	1.00	0.00
ATOM	364	HD12	LEU	23	5.185	4.348	-3.713	1.00	0.00
ATOM	365	HD13	LEU	23	6.683	4.020	-2.809	1.00	0.00
ATOM	366	CD2	LEU	23	3.536	2.877	-2.164	1.00	0.00
ATOM	367	HD21	LEU	23	3.013	2.713	-1.222	1.00	0.00
ATOM	368	HD22	LEU	23	3.020	3.649	-2.736	1.00	0.00
ATOM	369	HD23	LEU	23	3.551	1.950	-2.737	1.00	0.00
ATOM	370	C	LEU	23	5.437	0.811	0.945	1.00	0.00
ATOM	371	O	LEU	23	4.613	-0.081	0.764	1.00	0.00

ATOM	372	N	ARG	24	6.598	0.650	1.509	1.00	0.00
ATOM	373	H	ARG	24	7.290	1.385	1.536	1.00	0.00
ATOM	374	CA	ARG	24	6.900	-0.649	2.228	1.00	0.00
ATOM	375	HA	ARG	24	6.941	-1.469	1.512	1.00	0.00
ATOM	376	CB	ARG	24	8.216	-0.557	2.925	1.00	0.00
ATOM	377	HB2	ARG	24	8.993	-0.432	2.171	1.00	0.00
ATOM	378	HB3	ARG	24	8.198	0.318	3.575	1.00	0.00
ATOM	379	CG	ARG	24	8.510	-1.811	3.762	1.00	0.00
ATOM	380	HG2	ARG	24	7.746	-1.905	4.533	1.00	0.00
ATOM	381	HG3	ARG	24	8.477	-2.684	3.110	1.00	0.00
ATOM	382	CD	ARG	24	9.879	-1.718	4.414	1.00	0.00
ATOM	383	HD2	ARG	24	9.865	-0.855	5.080	1.00	0.00
ATOM	384	HD3	ARG	24	10.024	-2.626	4.999	1.00	0.00
ATOM	385	NE	ARG	24	10.998	-1.575	3.487	1.00	0.00
ATOM	386	HE	ARG	24	11.276	-0.630	3.261	1.00	0.00
ATOM	387	CZ	ARG	24	11.685	-2.591	2.945	1.00	0.00
ATOM	388	NH1	ARG	24	11.346	-3.882	3.152	1.00	0.00
ATOM	389	HH11	ARG	24	10.550	-4.105	3.732	1.00	0.00
ATOM	390	HH12	ARG	24	11.889	-4.618	2.725	1.00	0.00
ATOM	391	NH2	ARG	24	12.724	-2.304	2.152	1.00	0.00
ATOM	392	HH21	ARG	24	12.970	-1.340	1.977	1.00	0.00
ATOM	393	HH22	ARG	24	13.256	-3.052	1.732	1.00	0.00

ATOM	394	C	ARG	24	5.845	-0.873	3.329	1.00	0.00
ATOM	395	O	ARG	24	5.273	-2.010	3.500	1.00	0.00
ATOM	396	N	GLN	25	5.539	0.151	4.125	1.00	0.00
ATOM	397	H	GLN	25	6.059	1.017	4.117	1.00	0.00
ATOM	398	CA	GLN	25	4.450	-0.005	5.119	1.00	0.00
ATOM	399	HA	GLN	25	4.651	-0.870	5.751	1.00	0.00
ATOM	400	CB	GLN	25	4.342	1.255	6.022	1.00	0.00
ATOM	401	HB2	GLN	25	4.124	2.118	5.392	1.00	0.00
ATOM	402	HB3	GLN	25	3.526	1.108	6.729	1.00	0.00
ATOM	403	CG	GLN	25	5.645	1.500	6.790	1.00	0.00
ATOM	404	HG2	GLN	25	6.047	0.530	7.082	1.00	0.00
ATOM	405	HG3	GLN	25	6.363	2.013	6.149	1.00	0.00
ATOM	406	CD	GLN	25	5.429	2.339	8.051	1.00	0.00
ATOM	407	OE1	GLN	25	5.290	3.585	8.003	1.00	0.00
ATOM	408	NE2	GLN	25	5.427	1.660	9.200	1.00	0.00
ATOM	409	HE21	GLN	25	5.289	2.150	10.072	1.00	0.00
ATOM	410	HE22	GLN	25	5.562	0.660	9.192	1.00	0.00
ATOM	411	C	GLN	25	3.089	-0.296	4.553	1.00	0.00
ATOM	412	O	GLN	25	2.281	-1.063	5.071	1.00	0.00
ATOM	413	N	ALA	26	2.768	0.234	3.325	1.00	0.00
ATOM	414	H	ALA	26	3.400	0.880	2.873	1.00	0.00
ATOM	415	CA	ALA	26	1.567	-0.093	2.668	1.00	0.00

ATOM	416	HA	ALA	26	0.739	0.136	3.339	1.00	0.00
ATOM	417	CB	ALA	26	1.434	0.758	1.431	1.00	0.00
ATOM	418	HB1	ALA	26	2.251	0.534	0.745	1.00	0.00
ATOM	419	HB2	ALA	26	0.482	0.545	0.943	1.00	0.00
ATOM	420	HB3	ALA	26	1.472	1.812	1.708	1.00	0.00
ATOM	421	C	ALA	26	1.455	-1.597	2.214	1.00	0.00
ATOM	422	O	ALA	26	0.327	-2.079	2.241	1.00	0.00
ATOM	423	N	VAL	27	2.554	-2.093	1.766	1.00	0.00
ATOM	424	H	VAL	27	3.370	-1.501	1.700	1.00	0.00
ATOM	425	CA	VAL	27	2.674	-3.555	1.306	1.00	0.00
ATOM	426	HA	VAL	27	1.899	-3.684	0.550	1.00	0.00
ATOM	427	CB	VAL	27	3.980	-3.961	0.722	1.00	0.00
ATOM	428	HB	VAL	27	4.783	-3.702	1.411	1.00	0.00
ATOM	429	CG1	VAL	27	3.982	-5.479	0.480	1.00	0.00
ATOM	430	HG11	VAL	27	3.179	-5.738	-0.210	1.00	0.00
ATOM	431	HG12	VAL	27	4.938	-5.778	0.052	1.00	0.00
ATOM	432	HG13	VAL	27	3.829	-5.998	1.426	1.00	0.00
ATOM	433	CG2	VAL	27	4.259	-3.300	-0.656	1.00	0.00
ATOM	434	HG21	VAL	27	4.269	-2.215	-0.544	1.00	0.00
ATOM	435	HG22	VAL	27	5.226	-3.635	-1.031	1.00	0.00
ATOM	436	HG23	VAL	27	3.478	-3.585	-1.361	1.00	0.00
ATOM	437	C	VAL	27	2.401	-4.381	2.581	1.00	0.00

ATOM	438	O	VAL	27	1.500	-5.255	2.545	1.00	0.00
ATOM	439	N	GLN	28	3.033	-4.020	3.700	1.00	0.00
ATOM	440	H	GLN	28	3.737	-3.296	3.694	1.00	0.00
ATOM	441	CA	GLN	28	2.797	-4.757	4.958	1.00	0.00
ATOM	442	HA	GLN	28	2.991	-5.820	4.820	1.00	0.00
ATOM	443	CB	GLN	28	3.724	-4.234	6.009	1.00	0.00
ATOM	444	HB2	GLN	28	3.601	-3.151	6.047	1.00	0.00
ATOM	445	HB3	GLN	28	3.419	-4.667	6.962	1.00	0.00
ATOM	446	CG	GLN	28	5.118	-4.555	5.755	1.00	0.00
ATOM	447	HG2	GLN	28	5.282	-5.607	5.987	1.00	0.00
ATOM	448	HG3	GLN	28	5.369	-4.370	4.710	1.00	0.00
ATOM	449	CD	GLN	28	6.040	-3.710	6.636	1.00	0.00
ATOM	450	OE1	GLN	28	5.575	-2.928	7.449	1.00	0.00
ATOM	451	NE2	GLN	28	7.335	-3.856	6.453	1.00	0.00
ATOM	452	HE21	GLN	28	7.984	-3.320	7.010	1.00	0.00
ATOM	453	HE22	GLN	28	7.673	-4.503	5.755	1.00	0.00
ATOM	454	C	GLN	28	1.372	-4.678	5.339	1.00	0.00
ATOM	455	O	GLN	28	0.728	-5.658	5.786	1.00	0.00
ATOM	456	N	SER	29	0.774	-3.470	5.336	1.00	0.00
ATOM	457	H	SER	29	1.307	-2.636	5.135	1.00	0.00
ATOM	458	CA	SER	29	-0.608	-3.326	5.668	1.00	0.00
ATOM	459	HA	SER	29	-0.817	-3.757	6.647	1.00	0.00

ATOM	460	CB	SER	29	-0.943	-1.847	5.708	1.00	0.00
ATOM	461	HB2	SER	29	-0.737	-1.386	4.742	1.00	0.00
ATOM	462	HB3	SER	29	-1.994	-1.703	5.962	1.00	0.00
ATOM	463	OG	SER	29	-0.142	-1.254	6.687	1.00	0.00
ATOM	464	HG	SER	29	-0.335	-0.314	6.732	1.00	0.00
ATOM	465	C	SER	29	-1.618	-3.995	4.783	1.00	0.00
ATOM	466	O	SER	29	-2.708	-4.441	5.216	1.00	0.00
ATOM	467	N	ALA	30	-1.309	-4.015	3.478	1.00	0.00
ATOM	468	H	ALA	30	-0.523	-3.492	3.120	1.00	0.00
ATOM	469	CA	ALA	30	-2.147	-4.704	2.544	1.00	0.00
ATOM	470	HA	ALA	30	-3.157	-4.312	2.667	1.00	0.00
ATOM	471	CB	ALA	30	-1.692	-4.432	1.127	1.00	0.00
ATOM	472	HB1	ALA	30	-0.686	-4.827	0.986	1.00	0.00
ATOM	473	HB2	ALA	30	-2.374	-4.915	0.427	1.00	0.00
ATOM	474	HB3	ALA	30	-1.689	-3.357	0.946	1.00	0.00
ATOM	475	C	ALA	30	-2.210	-6.208	2.819	1.00	0.00
ATOM	476	O	ALA	30	-3.207	-6.807	2.601	1.00	0.00
ATOM	477	N	GLN	31	-1.152	-6.746	3.312	1.00	0.00
ATOM	478	H	GLN	31	-0.310	-6.204	3.442	1.00	0.00
ATOM	479	CA	GLN	31	-1.137	-8.203	3.713	1.00	0.00
ATOM	480	HA	GLN	31	-1.381	-8.830	2.855	1.00	0.00
ATOM	481	CB	GLN	31	0.195	-8.572	4.200	1.00	0.00

ATOM	482	HB2	GLN	31	0.459	-7.909	5.024	1.00	0.00
ATOM	483	HB3	GLN	31	0.161	-9.601	4.558	1.00	0.00
ATOM	484	CG	GLN	31	1.206	-8.456	3.132	1.00	0.00
ATOM	485	HG2	GLN	31	0.877	-9.105	2.320	1.00	0.00
ATOM	486	HG3	GLN	31	1.240	-7.424	2.780	1.00	0.00
ATOM	487	CD	GLN	31	2.574	-8.864	3.541	1.00	0.00
ATOM	488	OE1	GLN	31	3.532	-8.123	3.441	1.00	0.00
ATOM	489	NE2	GLN	31	2.673	-10.094	3.984	1.00	0.00
ATOM	490	HE21	GLN	31	3.570	-10.449	4.282	1.00	0.00
ATOM	491	HE22	GLN	31	1.851	-10.680	4.025	1.00	0.00
ATOM	492	C	GLN	31	-2.126	-8.517	4.811	1.00	0.00
ATOM	493	O	GLN	31	-2.658	-9.599	4.843	1.00	0.00
ATOM	494	N	GLN	32	-2.415	-7.570	5.686	1.00	0.00
ATOM	495	H	GLN	32	-1.936	-6.681	5.652	1.00	0.00
ATOM	496	CA	GLN	32	-3.397	-7.779	6.724	1.00	0.00
ATOM	497	HA	GLN	32	-3.189	-8.710	7.251	1.00	0.00
ATOM	498	CB	GLN	32	-3.353	-6.623	7.733	1.00	0.00
ATOM	499	HB2	GLN	32	-3.486	-5.688	7.188	1.00	0.00
ATOM	500	HB3	GLN	32	-4.175	-6.752	8.437	1.00	0.00
ATOM	501	CG	GLN	32	-2.048	-6.584	8.486	1.00	0.00
ATOM	502	HG2	GLN	32	-1.522	-7.535	8.412	1.00	0.00
ATOM	503	HG3	GLN	32	-1.427	-5.792	8.067	1.00	0.00



ATOM	504	CD	GLN	32	-2.296	-6.283	9.938	1.00	0.00
ATOM	505	OE1	GLN	32	-2.643	-5.158	10.301	1.00	0.00
ATOM	506	NE2	GLN	32	-2.151	-7.294	10.773	1.00	0.00
ATOM	507	HE21	GLN	32	-2.304	-7.154	11.761	1.00	0.00
ATOM	508	HE22	GLN	32	-1.888	-8.203	10.420	1.00	0.00
ATOM	509	C	GLN	32	-4.807	-7.892	6.248	1.00	0.00
ATOM	510	O	GLN	32	-5.639	-8.553	6.893	1.00	0.00
ATOM	511	N	GLN	33	-5.096	-7.262	5.122	1.00	0.00
ATOM	512	H	GLN	33	-4.408	-6.662	4.690	1.00	0.00
ATOM	513	CA	GLN	33	-6.402	-7.354	4.513	1.00	0.00
ATOM	514	HA	GLN	33	-7.182	-7.337	5.274	1.00	0.00
ATOM	515	CB	GLN	33	-6.602	-6.151	3.579	1.00	0.00
ATOM	516	HB2	GLN	33	-6.007	-6.336	2.684	1.00	0.00
ATOM	517	HB3	GLN	33	-7.659	-6.123	3.312	1.00	0.00
ATOM	518	CG	GLN	33	-6.192	-4.797	4.199	1.00	0.00
ATOM	519	HG2	GLN	33	-6.595	-4.711	5.208	1.00	0.00
ATOM	520	HG3	GLN	33	-5.103	-4.769	4.239	1.00	0.00
ATOM	521	CD	GLN	33	-6.676	-3.619	3.384	1.00	0.00
ATOM	522	OE1	GLN	33	-5.959	-3.084	2.518	1.00	0.00
ATOM	523	NE2	GLN	33	-7.921	-3.221	3.634	1.00	0.00
ATOM	524	HE21	GLN	33	-8.310	-2.439	3.126	1.00	0.00
ATOM	525	HE22	GLN	33	-8.472	-3.702	4.330	1.00	0.00

ATOM	526	C	GLN	33	-6.555	-8.691	3.757	1.00	0.00
ATOM	527	O	GLN	33	-7.571	-8.923	3.144	1.00	0.00
ATOM	528	N	GLN	34	-5.515	-9.519	3.723	1.00	0.00
ATOM	529	H	GLN	34	-4.658	-9.250	4.184	1.00	0.00
ATOM	530	CA	GLN	34	-5.553	-10.808	3.023	1.00	0.00
ATOM	531	HA	GLN	34	-6.534	-10.975	2.577	1.00	0.00
ATOM	532	CB	GLN	34	-4.498	-10.793	1.900	1.00	0.00
ATOM	533	HB2	GLN	34	-3.520	-10.719	2.375	1.00	0.00
ATOM	534	HB3	GLN	34	-4.574	-11.743	1.371	1.00	0.00
ATOM	535	CG	GLN	34	-4.668	-9.656	0.920	1.00	0.00
ATOM	536	HG2	GLN	34	-5.673	-9.679	0.498	1.00	0.00
ATOM	537	HG3	GLN	34	-4.531	-8.730	1.479	1.00	0.00
ATOM	538	CD	GLN	34	-3.669	-9.689	-0.211	1.00	0.00
ATOM	539	OE1	GLN	34	-3.785	-10.473	-1.152	1.00	0.00
ATOM	540	NE2	GLN	34	-2.702	-8.808	-0.138	1.00	0.00
ATOM	541	HE21	GLN	34	-1.999	-8.774	-0.862	1.00	0.00
ATOM	542	HE22	GLN	34	-2.665	-8.167	0.641	1.00	0.00
ATOM	543	C	GLN	34	-5.287	-12.041	3.861	1.00	0.00
ATOM	544	O	GLN	34	-5.707	-13.138	3.474	1.00	0.00
ATOM	545	N	GLY	35	-4.520	-11.926	4.941	1.00	0.00
ATOM	546	H	GLY	35	-4.267	-11.023	5.316	1.00	0.00
ATOM	547	CA	GLY	35	-4.018	-13.128	5.620	1.00	0.00

ATOM	548	HA2	GLY	35	-3.443	-12.833	6.497	1.00	0.00
ATOM	549	HA3	GLY	35	-4.861	-13.746	5.929	1.00	0.00
ATOM	550	C	GLY	35	-3.120	-13.942	4.687	1.00	0.00
ATOM	551	O	GLY	35	-2.428	-13.359	3.862	1.00	0.00
ATOM	552	N	GLN	36	-3.166	-15.272	4.787	1.00	0.00
ATOM	553	H	GLN	36	-3.920	-15.698	5.307	1.00	0.00
ATOM	554	CA	GLN	36	-2.089	-16.142	4.276	1.00	0.00
ATOM	555	HA	GLN	36	-1.176	-15.924	4.829	1.00	0.00
ATOM	556	CB	GLN	36	-2.410	-17.656	4.424	1.00	0.00
ATOM	557	HB2	GLN	36	-3.490	-17.729	4.552	1.00	0.00
ATOM	558	HB3	GLN	36	-2.124	-18.123	3.482	1.00	0.00
ATOM	559	CG	GLN	36	-1.709	-18.372	5.583	1.00	0.00
ATOM	560	HG2	GLN	36	-1.975	-17.885	6.521	1.00	0.00
ATOM	561	HG3	GLN	36	-2.053	-19.406	5.600	1.00	0.00
ATOM	562	CD	GLN	36	-0.194	-18.366	5.444	1.00	0.00
ATOM	563	OE1	GLN	36	0.374	-19.024	4.564	1.00	0.00
ATOM	564	NE2	GLN	36	0.467	-17.605	6.308	1.00	0.00
ATOM	565	HE21	GLN	36	1.475	-17.558	6.267	1.00	0.00
ATOM	566	HE22	GLN	36	-0.042	-17.076	7.002	1.00	0.00
ATOM	567	C	GLN	36	-1.709	-15.817	2.837	1.00	0.00
ATOM	568	O	GLN	36	-2.421	-16.126	1.888	1.00	0.00
ATOM	569	N	VAL	37	-0.568	-15.161	2.707	1.00	0.00

ATOM	570	H	VAL	37	-0.100	-14.834	3.539	1.00	0.00
ATOM	571	CA	VAL	37	-0.012	-14.805	1.425	1.00	0.00
ATOM	572	HA	VAL	37	-0.523	-15.282	0.588	1.00	0.00
ATOM	573	CB	VAL	37	-0.022	-13.246	1.198	1.00	0.00
ATOM	574	HB	VAL	37	-1.051	-12.946	0.999	1.00	0.00
ATOM	575	CG1	VAL	37	0.512	-12.466	2.394	1.00	0.00
ATOM	576	HG11	VAL	37	1.541	-12.764	2.593	1.00	0.00
ATOM	577	HG12	VAL	37	0.479	-11.398	2.176	1.00	0.00
ATOM	578	HG13	VAL	37	-0.103	-12.676	3.269	1.00	0.00
ATOM	579	CG2	VAL	37	0.723	-12.857	-0.049	1.00	0.00
ATOM	580	HG21	VAL	37	0.258	-13.330	-0.914	1.00	0.00
ATOM	581	HG22	VAL	37	0.692	-11.774	-0.169	1.00	0.00
ATOM	582	HG23	VAL	37	1.760	-13.184	0.029	1.00	0.00
ATOM	583	C	VAL	37	1.387	-15.452	1.423	1.00	0.00
ATOM	584	O	VAL	37	2.226	-15.221	2.313	1.00	0.00
ATOM	585	N	GLY	38	1.606	-16.273	0.427	1.00	0.00
ATOM	586	H	GLY	38	0.869	-16.547	-0.208	1.00	0.00
ATOM	587	CA	GLY	38	2.946	-16.818	0.211	1.00	0.00
ATOM	588	HA2	GLY	38	3.185	-17.380	1.114	1.00	0.00
ATOM	589	HA3	GLY	38	2.853	-17.505	-0.630	1.00	0.00
ATOM	590	C	GLY	38	4.068	-15.838	-0.073	1.00	0.00
ATOM	591	O	GLY	38	3.826	-14.694	-0.453	1.00	0.00

ATOM	592	N	PRO	39	5.311	-16.272	0.090	1.00	0.00
ATOM	593	CD	PRO	39	5.727	-17.622	0.570	1.00	0.00
ATOM	594	HD2	PRO	39	5.205	-18.390	-0.001	1.00	0.00
ATOM	595	HD3	PRO	39	5.482	-17.726	1.627	1.00	0.00
ATOM	596	CG	PRO	39	7.179	-17.626	0.327	1.00	0.00
ATOM	597	HG2	PRO	39	7.371	-18.096	-0.638	1.00	0.00
ATOM	598	HG3	PRO	39	7.664	-18.202	1.114	1.00	0.00
ATOM	599	CB	PRO	39	7.639	-16.216	0.343	1.00	0.00
ATOM	600	HB2	PRO	39	8.508	-16.031	-0.289	1.00	0.00
ATOM	601	HB3	PRO	39	7.864	-15.915	1.366	1.00	0.00
ATOM	602	CA	PRO	39	6.457	-15.438	-0.173	1.00	0.00
ATOM	603	HA	PRO	39	6.367	-14.556	0.461	1.00	0.00
ATOM	604	C	PRO	39	6.583	-15.011	-1.606	1.00	0.00
ATOM	605	O	PRO	39	7.121	-13.861	-1.851	1.00	0.00
ATOM	606	N	GLN	40	6.076	-15.766	-2.593	1.00	0.00
ATOM	607	H	GLN	40	5.653	-16.666	-2.417	1.00	0.00
ATOM	608	CA	GLN	40	6.205	-15.339	-3.928	1.00	0.00
ATOM	609	HA	GLN	40	7.210	-14.952	-4.098	1.00	0.00
ATOM	610	CB	GLN	40	5.965	-16.489	-4.873	1.00	0.00
ATOM	611	HB2	GLN	40	4.990	-16.927	-4.660	1.00	0.00
ATOM	612	HB3	GLN	40	5.978	-16.116	-5.897	1.00	0.00
ATOM	613	CG	GLN	40	7.043	-17.547	-4.705	1.00	0.00

ATOM	614	HG2	GLN	40	8.024	-17.189	-5.017	1.00	0.00
ATOM	615	HG3	GLN	40	7.052	-17.741	-3.633	1.00	0.00
ATOM	616	CD	GLN	40	6.743	-18.866	-5.442	1.00	0.00
ATOM	617	OE1	GLN	40	6.208	-19.833	-4.880	1.00	0.00
ATOM	618	NE2	GLN	40	6.982	-18.854	-6.672	1.00	0.00
ATOM	619	HE21	GLN	40	6.811	-19.682	-7.225	1.00	0.00
ATOM	620	HE22	GLN	40	7.344	-18.016	-7.105	1.00	0.00
ATOM	621	C	GLN	40	5.227	-14.164	-4.149	1.00	0.00
ATOM	622	O	GLN	40	5.549	-13.161	-4.804	1.00	0.00
ATOM	623	N	GLN	41	4.000	-14.330	-3.661	1.00	0.00
ATOM	624	H	GLN	41	3.709	-15.217	-3.275	1.00	0.00
ATOM	625	CA	GLN	41	3.011	-13.243	-3.734	1.00	0.00
ATOM	626	HA	GLN	41	2.911	-12.920	-4.771	1.00	0.00
ATOM	627	CB	GLN	41	1.653	-13.681	-3.232	1.00	0.00
ATOM	628	HB2	GLN	41	1.390	-14.643	-3.671	1.00	0.00
ATOM	629	HB3	GLN	41	1.672	-13.770	-2.146	1.00	0.00
ATOM	630	CG	GLN	41	0.617	-12.638	-3.638	1.00	0.00
ATOM	631	HG2	GLN	41	0.824	-11.745	-3.048	1.00	0.00
ATOM	632	HG3	GLN	41	0.763	-12.416	-4.695	1.00	0.00
ATOM	633	CD	GLN	41	-0.817	-13.032	-3.424	1.00	0.00
ATOM	634	OE1	GLN	41	-1.167	-14.217	-3.315	1.00	0.00
ATOM	635	NE2	GLN	41	-1.669	-12.032	-3.377	1.00	0.00

ATOM	636	HE21	GLN	41	-2.652	-12.216	-3.236	1.00	0.00
ATOM	637	HE22	GLN	41	-1.337	-11.084	-3.482	1.00	0.00
ATOM	638	C	GLN	41	3.437	-12.001	-2.967	1.00	0.00
ATOM	639	O	GLN	41	3.282	-10.874	-3.469	1.00	0.00
ATOM	640	N	VAL	42	4.044	-12.203	-1.830	1.00	0.00
ATOM	641	H	VAL	42	4.166	-13.116	-1.416	1.00	0.00
ATOM	642	CA	VAL	42	4.585	-11.011	-1.096	1.00	0.00
ATOM	643	HA	VAL	42	3.825	-10.257	-0.887	1.00	0.00
ATOM	644	CB	VAL	42	5.249	-11.417	0.224	1.00	0.00
ATOM	645	HB	VAL	42	5.911	-12.259	0.023	1.00	0.00
ATOM	646	CG1	VAL	42	6.056	-10.270	0.849	1.00	0.00
ATOM	647	HG11	VAL	42	5.394	-9.427	1.050	1.00	0.00
ATOM	648	HG12	VAL	42	6.506	-10.608	1.782	1.00	0.00
ATOM	649	HG13	VAL	42	6.840	-9.959	0.159	1.00	0.00
ATOM	650	CG2	VAL	42	4.170	-11.935	1.136	1.00	0.00
ATOM	651	HG21	VAL	42	3.685	-12.795	0.674	1.00	0.00
ATOM	652	HG22	VAL	42	4.610	-12.233	2.087	1.00	0.00
ATOM	653	HG23	VAL	42	3.431	-11.151	1.307	1.00	0.00
ATOM	654	C	VAL	42	5.620	-10.307	-1.967	1.00	0.00
ATOM	655	O	VAL	42	5.636	-9.050	-2.063	1.00	0.00
ATOM	656	N	GLY	43	6.575	-11.019	-2.556	1.00	0.00
ATOM	657	H	GLY	43	6.647	-12.015	-2.409	1.00	0.00

ATOM	658	CA	GLY	43	7.511	-10.401	-3.402	1.00	0.00
ATOM	659	HA2	GLY	43	8.072	-9.677	-2.812	1.00	0.00
ATOM	660	HA3	GLY	43	8.188	-11.169	-3.774	1.00	0.00
ATOM	661	C	GLY	43	6.888	-9.702	-4.562	1.00	0.00
ATOM	662	O	GLY	43	7.279	-8.573	-4.837	1.00	0.00
ATOM	663	N	HIE	44	5.905	-10.250	-5.197	1.00	0.00
ATOM	664	H	HIE	44	5.729	-11.235	-5.061	1.00	0.00
ATOM	665	CA	HIE	44	5.140	-9.547	-6.215	1.00	0.00
ATOM	666	HA	HIE	44	5.803	-9.165	-6.991	1.00	0.00
ATOM	667	CB	HIE	44	4.135	-10.516	-6.861	1.00	0.00
ATOM	668	HB2	HIE	44	4.545	-11.414	-7.324	1.00	0.00
ATOM	669	HB3	HIE	44	3.489	-10.798	-6.029	1.00	0.00
ATOM	670	CG	HIE	44	3.257	-9.872	-7.883	1.00	0.00
ATOM	671	ND1	HIE	44	3.744	-9.475	-9.108	1.00	0.00
ATOM	672	CE1	HIE	44	2.770	-8.928	-9.813	1.00	0.00
ATOM	673	HE1	HIE	44	2.933	-8.600	-10.840	1.00	0.00
ATOM	674	NE2	HIE	44	1.690	-8.887	-9.051	1.00	0.00
ATOM	675	HE2	HIE	44	0.788	-8.522	-9.323	1.00	0.00
ATOM	676	CD2	HIE	44	1.985	-9.422	-7.822	1.00	0.00
ATOM	677	HD2	HIE	44	1.234	-9.418	-7.032	1.00	0.00
ATOM	678	C	HIE	44	4.485	-8.255	-5.711	1.00	0.00
ATOM	679	O	HIE	44	4.475	-7.274	-6.433	1.00	0.00



ATOM	680	N	MET	45	3.933	-8.261	-4.528	1.00	0.00
ATOM	681	H	MET	45	3.825	-9.107	-3.988	1.00	0.00
ATOM	682	CA	MET	45	3.327	-7.020	-4.011	1.00	0.00
ATOM	683	HA	MET	45	2.622	-6.619	-4.740	1.00	0.00
ATOM	684	CB	MET	45	2.583	-7.297	-2.718	1.00	0.00
ATOM	685	HB2	MET	45	3.284	-7.759	-2.024	1.00	0.00
ATOM	686	HB3	MET	45	2.250	-6.340	-2.315	1.00	0.00
ATOM	687	CG	MET	45	1.379	-8.214	-2.911	1.00	0.00
ATOM	688	HG2	MET	45	0.610	-7.620	-3.407	1.00	0.00
ATOM	689	HG3	MET	45	1.700	-9.017	-3.574	1.00	0.00
ATOM	690	SD	MET	45	0.702	-8.922	-1.415	1.00	0.00
ATOM	691	CE	MET	45	0.500	-7.342	-0.540	1.00	0.00
ATOM	692	HE1	MET	45	-0.172	-6.696	-1.106	1.00	0.00
ATOM	693	HE2	MET	45	0.080	-7.525	0.449	1.00	0.00
ATOM	694	HE3	MET	45	1.470	-6.856	-0.438	1.00	0.00
ATOM	695	C	MET	45	4.367	-5.928	-3.869	1.00	0.00
ATOM	696	O	MET	45	4.102	-4.760	-4.129	1.00	0.00
ATOM	697	N	TYR	46	5.560	-6.253	-3.415	1.00	0.00
ATOM	698	H	TYR	46	5.740	-7.159	-3.008	1.00	0.00
ATOM	699	CA	TYR	46	6.616	-5.274	-3.396	1.00	0.00
ATOM	700	HA	TYR	46	6.256	-4.366	-2.911	1.00	0.00
ATOM	701	CB	TYR	46	7.843	-5.784	-2.634	1.00	0.00

ATOM	702	HB2	TYR	46	8.022	-6.811	-2.950	1.00	0.00
ATOM	703	HB3	TYR	46	8.683	-5.159	-2.937	1.00	0.00
ATOM	704	CG	TYR	46	7.699	-5.738	-1.151	1.00	0.00
ATOM	705	CD1	TYR	46	7.910	-4.575	-0.429	1.00	0.00
ATOM	706	HD1	TYR	46	8.303	-3.689	-0.928	1.00	0.00
ATOM	707	CE1	TYR	46	7.619	-4.536	0.940	1.00	0.00
ATOM	708	HE1	TYR	46	7.761	-3.592	1.467	1.00	0.00
ATOM	709	CZ	TYR	46	7.407	-5.646	1.620	1.00	0.00
ATOM	710	OH	TYR	46	7.145	-5.647	3.020	1.00	0.00
ATOM	711	HH	TYR	46	7.141	-4.766	3.401	1.00	0.00
ATOM	712	CE2	TYR	46	7.193	-6.823	0.932	1.00	0.00
ATOM	713	HE2	TYR	46	6.909	-7.728	1.468	1.00	0.00
ATOM	714	CD2	TYR	46	7.337	-6.850	-0.415	1.00	0.00
ATOM	715	HD2	TYR	46	7.165	-7.776	-0.963	1.00	0.00
ATOM	716	C	TYR	46	7.034	-4.796	-4.770	1.00	0.00
ATOM	717	O	TYR	46	7.374	-3.603	-5.003	1.00	0.00
ATOM	718	N	ARG	47	7.055	-5.692	-5.747	1.00	0.00
ATOM	719	H	ARG	47	7.024	-6.675	-5.519	1.00	0.00
ATOM	720	CA	ARG	47	7.284	-5.315	-7.125	1.00	0.00
ATOM	721	HA	ARG	47	8.207	-4.741	-7.203	1.00	0.00
ATOM	722	CB	ARG	47	7.406	-6.561	-8.009	1.00	0.00
ATOM	723	HB2	ARG	47	8.139	-7.229	-7.557	1.00	0.00

ATOM	724	HB3	ARG	47	6.434	-7.054	-8.038	1.00	0.00
ATOM	725	CG	ARG	47	7.844	-6.214	-9.435	1.00	0.00
ATOM	726	HG2	ARG	47	7.243	-5.385	-9.810	1.00	0.00
ATOM	727	HG3	ARG	47	8.895	-5.928	-9.434	1.00	0.00
ATOM	728	CD	ARG	47	7.648	-7.437	-10.339	1.00	0.00
ATOM	729	HD2	ARG	47	8.428	-8.139	-10.045	1.00	0.00
ATOM	730	HD3	ARG	47	6.673	-7.842	-10.067	1.00	0.00
ATOM	731	NE	ARG	47	7.696	-7.262	-11.819	1.00	0.00
ATOM	732	HE	ARG	47	6.807	-7.104	-12.273	1.00	0.00
ATOM	733	CZ	ARG	47	8.803	-7.307	-12.576	1.00	0.00
ATOM	734	NH1	ARG	47	10.022	-7.466	-12.045	1.00	0.00
ATOM	735	HH11	ARG	47	10.125	-7.556	-11.045	1.00	0.00
ATOM	736	HH12	ARG	47	10.832	-7.495	-12.648	1.00	0.00
ATOM	737	NH2	ARG	47	8.696	-7.181	-13.895	1.00	0.00
ATOM	738	HH21	ARG	47	7.786	-7.053	-14.315	1.00	0.00
ATOM	739	HH22	ARG	47	9.525	-7.214	-14.471	1.00	0.00
ATOM	740	C	ARG	47	6.279	-4.331	-7.650	1.00	0.00
ATOM	741	O	ARG	47	6.646	-3.333	-8.293	1.00	0.00
ATOM	742	N	VAL	48	5.019	-4.576	-7.402	1.00	0.00
ATOM	743	H	VAL	48	4.774	-5.398	-6.870	1.00	0.00
ATOM	744	CA	VAL	48	3.938	-3.677	-7.833	1.00	0.00
ATOM	745	HA	VAL	48	3.962	-3.592	-8.920	1.00	0.00

ATOM	746	CB	VAL	48	2.562	-4.209	-7.413	1.00	0.00
ATOM	747	HB	VAL	48	2.608	-4.470	-6.356	1.00	0.00
ATOM	748	CG1	VAL	48	1.473	-3.201	-7.632	1.00	0.00
ATOM	749	HG11	VAL	48	1.426	-2.940	-8.689	1.00	0.00
ATOM	750	HG12	VAL	48	0.518	-3.623	-7.320	1.00	0.00
ATOM	751	HG13	VAL	48	1.682	-2.306	-7.046	1.00	0.00
ATOM	752	CG2	VAL	48	2.304	-5.429	-8.277	1.00	0.00
ATOM	753	HG21	VAL	48	3.083	-6.170	-8.101	1.00	0.00
ATOM	754	HG22	VAL	48	1.333	-5.855	-8.024	1.00	0.00
ATOM	755	HG23	VAL	48	2.310	-5.138	-9.328	1.00	0.00
ATOM	756	C	VAL	48	4.190	-2.353	-7.120	1.00	0.00
ATOM	757	O	VAL	48	4.137	-1.244	-7.755	1.00	0.00
ATOM	758	N	ALA	49	4.357	-2.397	-5.791	1.00	0.00
ATOM	759	H	ALA	49	4.330	-3.266	-5.277	1.00	0.00
ATOM	760	CA	ALA	49	4.531	-1.157	-5.044	1.00	0.00
ATOM	761	HA	ALA	49	3.632	-0.555	-5.184	1.00	0.00
ATOM	762	CB	ALA	49	4.725	-1.411	-3.533	1.00	0.00
ATOM	763	HB1	ALA	49	5.626	-2.004	-3.377	1.00	0.00
ATOM	764	HB2	ALA	49	4.823	-0.458	-3.014	1.00	0.00
ATOM	765	HB3	ALA	49	3.862	-1.950	-3.141	1.00	0.00
ATOM	766	C	ALA	49	5.695	-0.376	-5.563	1.00	0.00
ATOM	767	O	ALA	49	5.640	0.911	-5.593	1.00	0.00

ATOM	768	N	SER	50	6.794	-1.014	-5.952	1.00	0.00
ATOM	769	H	SER	50	6.849	-1.984	-5.676	1.00	0.00
ATOM	770	CA	SER	50	7.965	-0.398	-6.525	1.00	0.00
ATOM	771	HA	SER	50	8.314	0.399	-5.869	1.00	0.00
ATOM	772	CB	SER	50	9.115	-1.433	-6.706	1.00	0.00
ATOM	773	HB2	SER	50	10.077	-0.925	-6.765	1.00	0.00
ATOM	774	HB3	SER	50	9.126	-2.137	-5.875	1.00	0.00
ATOM	775	OG	SER	50	8.878	-2.127	-7.904	1.00	0.00
ATOM	776	HG	SER	50	9.573	-2.774	-8.042	1.00	0.00
ATOM	777	C	SER	50	7.727	0.457	-7.778	1.00	0.00
ATOM	778	O	SER	50	8.479	1.387	-8.019	1.00	0.00
ATOM	779	N	ARG	51	6.655	0.176	-8.496	1.00	0.00
ATOM	780	H	ARG	51	6.015	-0.535	-8.172	1.00	0.00
ATOM	781	CA	ARG	51	6.369	0.828	-9.720	1.00	0.00
ATOM	782	HA	ARG	51	7.309	1.128	-10.183	1.00	0.00
ATOM	783	CB	ARG	51	5.617	-0.043	-10.683	1.00	0.00
ATOM	784	HB2	ARG	51	4.748	-0.440	-10.158	1.00	0.00
ATOM	785	HB3	ARG	51	5.285	0.588	-11.508	1.00	0.00
ATOM	786	CG	ARG	51	6.459	-1.206	-11.235	1.00	0.00
ATOM	787	HG2	ARG	51	7.385	-0.801	-11.641	1.00	0.00
ATOM	788	HG3	ARG	51	6.689	-1.887	-10.416	1.00	0.00
ATOM	789	CD	ARG	51	5.722	-1.952	-12.315	1.00	0.00

ATOM	790	HD2	ARG	51	4.750	-2.261	-11.930	1.00	0.00
ATOM	791	HD3	ARG	51	5.579	-1.288	-13.168	1.00	0.00
ATOM	792	NE	ARG	51	6.461	-3.160	-12.770	1.00	0.00
ATOM	793	HE	ARG	51	6.369	-4.031	-12.267	1.00	0.00
ATOM	794	CZ	ARG	51	7.284	-3.113	-13.810	1.00	0.00
ATOM	795	NH1	ARG	51	7.436	-2.036	-14.485	1.00	0.00
ATOM	796	HH11	ARG	51	6.923	-1.205	-14.227	1.00	0.00
ATOM	797	HH12	ARG	51	8.067	-2.022	-15.273	1.00	0.00
ATOM	798	NH2	ARG	51	7.917	-4.202	-14.175	1.00	0.00
ATOM	799	HH21	ARG	51	7.773	-5.061	-13.664	1.00	0.00
ATOM	800	HH22	ARG	51	8.545	-4.176	-14.965	1.00	0.00
ATOM	801	C	ARG	51	5.536	2.071	-9.475	1.00	0.00
ATOM	802	O	ARG	51	5.389	2.887	-10.367	1.00	0.00
ATOM	803	N	ILE	52	4.944	2.208	-8.268	1.00	0.00
ATOM	804	H	ILE	52	5.072	1.523	-7.538	1.00	0.00
ATOM	805	CA	ILE	52	3.958	3.230	-8.075	1.00	0.00
ATOM	806	HA	ILE	52	3.280	3.323	-8.924	1.00	0.00
ATOM	807	CB	ILE	52	3.142	2.957	-6.792	1.00	0.00
ATOM	808	HB	ILE	52	3.829	2.733	-5.976	1.00	0.00
ATOM	809	CG2	ILE	52	2.276	4.207	-6.416	1.00	0.00
ATOM	810	HG21	ILE	52	1.588	4.432	-7.232	1.00	0.00
ATOM	811	HG22	ILE	52	1.708	3.997	-5.510	1.00	0.00

ATOM	812	HG23	ILE	52	2.928	5.064	-6.245	1.00	0.00
ATOM	813	CG1	ILE	52	2.304	1.699	-6.994	1.00	0.00
ATOM	814	HG12	ILE	52	1.626	1.870	-7.831	1.00	0.00
ATOM	815	HG13	ILE	52	2.975	0.875	-7.234	1.00	0.00
ATOM	816	CD1	ILE	52	1.495	1.350	-5.746	1.00	0.00
ATOM	817	HD11	ILE	52	0.822	2.174	-5.506	1.00	0.00
ATOM	818	HD12	ILE	52	0.911	0.448	-5.931	1.00	0.00
ATOM	819	HD13	ILE	52	2.172	1.179	-4.910	1.00	0.00
ATOM	820	C	ILE	52	4.507	4.656	-8.153	1.00	0.00
ATOM	821	O	ILE	52	3.854	5.499	-8.769	1.00	0.00
ATOM	822	N	PRO	53	5.658	4.885	-7.614	1.00	0.00
ATOM	823	CD	PRO	53	6.542	4.113	-6.696	1.00	0.00
ATOM	824	HD2	PRO	53	7.172	3.454	-7.293	1.00	0.00
ATOM	825	HD3	PRO	53	5.917	3.515	-6.033	1.00	0.00
ATOM	826	CG	PRO	53	7.342	5.164	-5.946	1.00	0.00
ATOM	827	HG2	PRO	53	8.319	4.790	-5.641	1.00	0.00
ATOM	828	HG3	PRO	53	6.806	5.534	-5.072	1.00	0.00
ATOM	829	CB	PRO	53	7.466	6.224	-6.980	1.00	0.00
ATOM	830	HB2	PRO	53	8.266	5.919	-7.654	1.00	0.00
ATOM	831	HB3	PRO	53	7.697	7.204	-6.563	1.00	0.00
ATOM	832	CA	PRO	53	6.175	6.278	-7.719	1.00	0.00
ATOM	833	HA	PRO	53	5.445	6.952	-7.269	1.00	0.00

ATOM	834	C	PRO	53	6.411	6.683	-9.175	1.00	0.00
ATOM	835	O	PRO	53	5.948	7.762	-9.553	1.00	0.00
ATOM	836	N	ALA	54	6.961	5.838	-10.063	1.00	0.00
ATOM	837	H	ALA	54	7.503	5.024	-9.813	1.00	0.00
ATOM	838	CA	ALA	54	6.914	6.238	-11.484	1.00	0.00
ATOM	839	HA	ALA	54	7.401	7.212	-11.429	1.00	0.00
ATOM	840	CB	ALA	54	7.752	5.329	-12.340	1.00	0.00
ATOM	841	HB1	ALA	54	7.272	4.353	-12.412	1.00	0.00
ATOM	842	HB2	ALA	54	7.852	5.759	-13.337	1.00	0.00
ATOM	843	HB3	ALA	54	8.739	5.216	-11.893	1.00	0.00
ATOM	844	C	ALA	54	5.608	6.421	-12.115	1.00	0.00
ATOM	845	O	ALA	54	5.426	7.332	-12.924	1.00	0.00
ATOM	846	N	ILE	55	4.626	5.594	-11.829	1.00	0.00
ATOM	847	H	ILE	55	4.847	4.784	-11.269	1.00	0.00
ATOM	848	CA	ILE	55	3.293	5.702	-12.383	1.00	0.00
ATOM	849	HA	ILE	55	3.285	5.794	-13.469	1.00	0.00
ATOM	850	CB	ILE	55	2.433	4.537	-11.973	1.00	0.00
ATOM	851	HB	ILE	55	2.590	4.368	-10.908	1.00	0.00
ATOM	852	CG2	ILE	55	0.947	4.769	-12.237	1.00	0.00
ATOM	853	HG21	ILE	55	0.788	4.938	-13.302	1.00	0.00
ATOM	854	HG22	ILE	55	0.380	3.894	-11.920	1.00	0.00
ATOM	855	HG23	ILE	55	0.610	5.642	-11.678	1.00	0.00



ATOM	856	CG1	ILE	55	2.982	3.325	-12.657	1.00	0.00
ATOM	857	HG12	ILE	55	2.780	3.415	-13.725	1.00	0.00
ATOM	858	HG13	ILE	55	4.059	3.298	-12.492	1.00	0.00
ATOM	859	CD1	ILE	55	2.378	2.088	-12.147	1.00	0.00
ATOM	860	HD11	ILE	55	1.301	2.114	-12.312	1.00	0.00
ATOM	861	HD12	ILE	55	2.804	1.233	-12.671	1.00	0.00
ATOM	862	HD13	ILE	55	2.579	1.998	-11.080	1.00	0.00
ATOM	863	C	ILE	55	2.714	7.083	-12.010	1.00	0.00
ATOM	864	O	ILE	55	2.103	7.742	-12.851	1.00	0.00
ATOM	865	N	CYX	56	2.928	7.420	-10.769	1.00	0.00
ATOM	866	H	CYX	56	3.272	6.704	-10.146	1.00	0.00
ATOM	867	CA	CYX	56	2.551	8.721	-10.196	1.00	0.00
ATOM	868	HA	CYX	56	1.570	9.024	-10.563	1.00	0.00
ATOM	869	CB	CYX	56	2.491	8.614	-8.670	1.00	0.00
ATOM	870	HB2	CYX	56	3.496	8.467	-8.276	1.00	0.00
ATOM	871	HB3	CYX	56	2.070	9.531	-8.257	1.00	0.00
ATOM	872	SG	CYX	56	1.242	7.391	-8.073	1.00	0.00
ATOM	873	C	CYX	56	3.337	9.900	-10.605	1.00	0.00
ATOM	874	O	CYX	56	3.022	11.004	-10.181	1.00	0.00
ATOM	875	N	ASN	57	4.474	9.673	-11.249	1.00	0.00
ATOM	876	H	ASN	57	4.753	8.715	-11.406	1.00	0.00
ATOM	877	CA	ASN	57	5.430	10.748	-11.597	1.00	0.00

ATOM	878	HA	ASN	57	6.296	10.348	-12.125	1.00	0.00
ATOM	879	CB	ASN	57	4.716	11.726	-12.510	1.00	0.00
ATOM	880	HB2	ASN	57	3.707	11.389	-12.750	1.00	0.00
ATOM	881	HB3	ASN	57	4.663	12.666	-11.961	1.00	0.00
ATOM	882	CG	ASN	57	5.438	11.953	-13.753	1.00	0.00
ATOM	883	OD1	ASN	57	6.197	11.092	-14.213	1.00	0.00
ATOM	884	ND2	ASN	57	5.168	13.086	-14.368	1.00	0.00
ATOM	885	HD21	ASN	57	5.633	13.309	-15.237	1.00	0.00
ATOM	886	HD22	ASN	57	4.497	13.727	-13.969	1.00	0.00
ATOM	887	C	ASN	57	6.052	11.342	-10.389	1.00	0.00
ATOM	888	O	ASN	57	6.333	12.573	-10.373	1.00	0.00
ATOM	889	N	LEU	58	6.292	10.558	-9.339	1.00	0.00
ATOM	890	H	LEU	58	6.039	9.584	-9.426	1.00	0.00
ATOM	891	CA	LEU	58	6.777	11.013	-8.100	1.00	0.00
ATOM	892	HA	LEU	58	6.850	12.100	-8.152	1.00	0.00
ATOM	893	CB	LEU	58	5.911	10.640	-6.904	1.00	0.00
ATOM	894	HB2	LEU	58	5.853	9.552	-6.927	1.00	0.00
ATOM	895	HB3	LEU	58	6.447	10.957	-6.010	1.00	0.00
ATOM	896	CG	LEU	58	4.535	11.209	-6.884	1.00	0.00
ATOM	897	HG	LEU	58	4.054	11.034	-7.847	1.00	0.00
ATOM	898	CD1	LEU	58	3.719	10.533	-5.774	1.00	0.00
ATOM	899	HD11	LEU	58	4.199	10.709	-4.811	1.00	0.00

ATOM	900	HD12	LEU	58	2.711	10.949	-5.759	1.00	0.00
ATOM	901	HD13	LEU	58	3.666	9.461	-5.963	1.00	0.00
ATOM	902	CD2	LEU	58	4.558	12.753	-6.650	1.00	0.00
ATOM	903	HD21	LEU	58	5.118	13.234	-7.452	1.00	0.00
ATOM	904	HD22	LEU	58	3.537	13.135	-6.641	1.00	0.00
ATOM	905	HD23	LEU	58	5.034	12.969	-5.694	1.00	0.00
ATOM	906	C	LEU	58	8.185	10.534	-7.893	1.00	0.00
ATOM	907	O	LEU	58	8.537	9.331	-7.987	1.00	0.00
ATOM	908	N	GLN	59	9.063	11.398	-7.480	1.00	0.00
ATOM	909	H	GLN	59	8.821	12.378	-7.429	1.00	0.00
ATOM	910	CA	GLN	59	10.399	10.992	-7.056	1.00	0.00
ATOM	911	HA	GLN	59	10.837	10.329	-7.802	1.00	0.00
ATOM	912	CB	GLN	59	11.316	12.229	-6.894	1.00	0.00
ATOM	913	HB2	GLN	59	10.866	12.888	-6.151	1.00	0.00
ATOM	914	HB3	GLN	59	12.286	11.886	-6.535	1.00	0.00
ATOM	915	CG	GLN	59	11.492	12.962	-8.155	1.00	0.00
ATOM	916	HG2	GLN	59	10.496	13.064	-8.587	1.00	0.00
ATOM	917	HG3	GLN	59	11.892	13.951	-7.930	1.00	0.00
ATOM	918	CD	GLN	59	12.399	12.291	-9.176	1.00	0.00
ATOM	919	OE1	GLN	59	12.608	11.079	-9.179	1.00	0.00
ATOM	920	NE2	GLN	59	12.973	13.105	-10.039	1.00	0.00
ATOM	921	HE21	GLN	59	13.589	12.733	-10.747	1.00	0.00

ATOM	922	HE22	GLN	59	12.794	14.098	-9.988	1.00	0.00
ATOM	923	C	GLN	59	10.313	10.305	-5.733	1.00	0.00
ATOM	924	O	GLN	59	9.482	10.630	-4.917	1.00	0.00
ATOM	925	N	PRO	60	11.117	9.272	-5.513	1.00	0.00
ATOM	926	CD	PRO	60	11.131	8.551	-4.223	1.00	0.00
ATOM	927	HD2	PRO	60	10.149	8.117	-4.036	1.00	0.00
ATOM	928	HD3	PRO	60	11.381	9.244	-3.419	1.00	0.00
ATOM	929	CG	PRO	60	12.195	7.506	-4.432	1.00	0.00
ATOM	930	HG2	PRO	60	11.738	6.576	-4.769	1.00	0.00
ATOM	931	HG3	PRO	60	12.729	7.331	-3.499	1.00	0.00
ATOM	932	CB	PRO	60	13.100	8.069	-5.462	1.00	0.00
ATOM	933	HB2	PRO	60	13.409	7.123	-5.906	1.00	0.00
ATOM	934	HB3	PRO	60	13.979	8.683	-5.268	1.00	0.00
ATOM	935	CA	PRO	60	12.151	8.802	-6.410	1.00	0.00
ATOM	936	HA	PRO	60	12.556	9.580	-7.058	1.00	0.00
ATOM	937	C	PRO	60	11.377	7.818	-7.236	1.00	0.00
ATOM	938	O	PRO	60	10.361	7.289	-6.782	1.00	0.00
ATOM	939	N	MET	61	11.788	7.504	-8.391	1.00	0.00
ATOM	940	H	MET	61	12.695	7.674	-8.800	1.00	0.00
ATOM	941	CA	MET	61	10.726	6.934	-9.251	1.00	0.00
ATOM	942	HA	MET	61	9.737	7.301	-8.976	1.00	0.00
ATOM	943	CB	MET	61	11.033	7.387	-10.635	1.00	0.00

ATOM	944	HB2 MET	61	12.071	7.147	-10.862	1.00	0.00
ATOM	945	HB3 MET	61	10.378	6.862	-11.331	1.00	0.00
ATOM	946	CG MET	61	10.819	8.886	-10.772	1.00	0.00
ATOM	947	HG2 MET	61	10.780	9.315	-9.771	1.00	0.00
ATOM	948	HG3 MET	61	11.670	9.301	-11.312	1.00	0.00
ATOM	949	SD MET	61	9.338	9.289	-11.631	1.00	0.00
ATOM	950	CE MET	61	9.489	8.638	-13.204	1.00	0.00
ATOM	951	HE1 MET	61	9.617	7.558	-13.140	1.00	0.00
ATOM	952	HE2 MET	61	8.590	8.863	-13.779	1.00	0.00
ATOM	953	HE3 MET	61	10.355	9.078	-13.698	1.00	0.00
ATOM	954	C MET	61	10.590	5.386	-9.103	1.00	0.00
ATOM	955	O MET	61	9.649	4.754	-9.591	1.00	0.00
ATOM	956	N ARG	62	11.463	4.829	-8.304	1.00	0.00
ATOM	957	H ARG	62	12.179	5.390	-7.865	1.00	0.00
ATOM	958	CA ARG	62	11.449	3.402	-8.043	1.00	0.00
ATOM	959	HA ARG	62	10.430	3.024	-8.127	1.00	0.00
ATOM	960	CB ARG	62	12.335	2.655	-9.054	1.00	0.00
ATOM	961	HB2 ARG	62	11.878	2.810	-10.032	1.00	0.00
ATOM	962	HB3 ARG	62	13.308	3.145	-9.027	1.00	0.00
ATOM	963	CG ARG	62	12.513	1.142	-8.803	1.00	0.00
ATOM	964	HG2 ARG	62	13.288	0.810	-9.494	1.00	0.00
ATOM	965	HG3 ARG	62	12.874	1.046	-7.779	1.00	0.00

ATOM	966	CD	ARG	62	11.260	0.276	-8.986	1.00	0.00
ATOM	967	HD2	ARG	62	11.496	-0.745	-8.686	1.00	0.00
ATOM	968	HD3	ARG	62	10.469	0.669	-8.347	1.00	0.00
ATOM	969	NE	ARG	62	10.775	0.259	-10.383	1.00	0.00
ATOM	970	HE	ARG	62	10.865	1.143	-10.864	1.00	0.00
ATOM	971	CZ	ARG	62	10.235	-0.779	-11.045	1.00	0.00
ATOM	972	NH1	ARG	62	10.049	-1.989	-10.485	1.00	0.00
ATOM	973	HH11	ARG	62	10.320	-2.145	-9.525	1.00	0.00
ATOM	974	HH12	ARG	62	9.638	-2.735	-11.028	1.00	0.00
ATOM	975	NH2	ARG	62	9.880	-0.595	-12.325	1.00	0.00
ATOM	976	HH21	ARG	62	10.022	0.305	-12.761	1.00	0.00
ATOM	977	HH22	ARG	62	9.472	-1.357	-12.847	1.00	0.00
ATOM	978	C	ARG	62	11.955	3.209	-6.629	1.00	0.00
ATOM	979	O	ARG	62	12.736	4.022	-6.081	1.00	0.00
ATOM	980	N	CYX	63	11.430	2.186	-5.990	1.00	0.00
ATOM	981	H	CYX	63	10.737	1.621	-6.460	1.00	0.00
ATOM	982	CA	CYX	63	11.842	1.800	-4.686	1.00	0.00
ATOM	983	HA	CYX	63	12.439	2.590	-4.230	1.00	0.00
ATOM	984	CB	CYX	63	10.633	1.556	-3.829	1.00	0.00
ATOM	985	HB2	CYX	63	9.978	0.836	-4.320	1.00	0.00
ATOM	986	HB3	CYX	63	10.946	1.162	-2.863	1.00	0.00
ATOM	987	SG	CYX	63	9.702	3.106	-3.707	1.00	0.00

ATOM	988	C	CYX	63	12.610	0.465	-4.783	1.00	0.00
ATOM	989	O	CYX	63	12.037	-0.556	-5.207	1.00	0.00
ATOM	990	N	PRO	64	13.876	0.465	-4.366	1.00	0.00
ATOM	991	CD	PRO	64	14.537	1.483	-3.520	1.00	0.00
ATOM	992	HD2	PRO	64	13.815	1.880	-2.805	1.00	0.00
ATOM	993	HD3	PRO	64	14.903	2.292	-4.152	1.00	0.00
ATOM	994	CG	PRO	64	15.647	0.728	-2.858	1.00	0.00
ATOM	995	HG2	PRO	64	15.338	0.452	-1.850	1.00	0.00
ATOM	996	HG3	PRO	64	16.529	1.366	-2.806	1.00	0.00
ATOM	997	CB	PRO	64	15.912	-0.487	-3.703	1.00	0.00
ATOM	998	HB2	PRO	64	16.275	-1.314	-3.093	1.00	0.00
ATOM	999	HB3	PRO	64	16.637	-0.268	-4.487	1.00	0.00
ATOM	1000	CA	PRO	64	14.570	-0.852	-4.324	1.00	0.00
ATOM	1001	HA	PRO	64	14.638	-1.193	-5.357	1.00	0.00
ATOM	1002	C	PRO	64	13.889	-1.949	-3.461	1.00	0.00
ATOM	1003	O	PRO	64	13.781	-3.138	-3.866	1.00	0.00
ATOM	1004	N	PHE	65	13.464	-1.553	-2.270	1.00	0.00
ATOM	1005	H	PHE	65	13.474	-0.567	-2.050	1.00	0.00
ATOM	1006	CA	PHE	65	13.106	-2.489	-1.221	1.00	0.00
ATOM	1007	HA	PHE	65	13.012	-1.966	-0.269	1.00	0.00
ATOM	1008	CB	PHE	65	11.759	-3.156	-1.551	1.00	0.00
ATOM	1009	HB2	PHE	65	11.819	-3.693	-2.498	1.00	0.00

ATOM	1010	HB3 PHE	65	11.482	-3.849	-0.757	1.00	0.00
ATOM	1011	CG PHE	65	10.605	-2.162	-1.685	1.00	0.00
ATOM	1012	CD1 PHE	65	10.405	-1.165	-0.721	1.00	0.00
ATOM	1013	HD1 PHE	65	11.095	-1.098	0.120	1.00	0.00
ATOM	1014	CE1 PHE	65	9.364	-0.284	-0.823	1.00	0.00
ATOM	1015	HE1 PHE	65	9.214	0.498	-0.078	1.00	0.00
ATOM	1016	CZ PHE	65	8.507	-0.394	-1.876	1.00	0.00
ATOM	1017	HZ PHE	65	7.666	0.296	-1.947	1.00	0.00
ATOM	1018	CE2 PHE	65	8.686	-1.338	-2.823	1.00	0.00
ATOM	1019	HE2 PHE	65	7.983	-1.405	-3.654	1.00	0.00
ATOM	1020	CD2 PHE	65	9.743	-2.210	-2.747	1.00	0.00
ATOM	1021	HD2 PHE	65	9.900	-2.946	-3.535	1.00	0.00
ATOM	1022	C PHE	65	14.221	-3.534	-0.929	1.00	0.00
ATOM	1023	O PHE	65	13.915	-4.627	-0.482	1.00	0.00
ATOM	1024	OXT PHE	65	15.399	-3.261	-1.147	1.00	0.00
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ATOM	1025	N GLN	66	9.176	8.860	14.518	1.00	0.00
ATOM	1026	H1 GLN	66	8.199	9.044	14.336	1.00	0.00
ATOM	1027	H2 GLN	66	9.549	9.613	15.078	1.00	0.00
ATOM	1028	H3 GLN	66	9.274	7.904	14.827	1.00	0.00
ATOM	1029	CA GLN	66	9.914	8.933	13.215	1.00	0.00
ATOM	1030	HA GLN	66	10.668	9.718	13.275	1.00	0.00



ATOM	1031	CB	GLN	66	10.601	7.627	12.883	1.00	0.00
ATOM	1032	HB2	GLN	66	11.025	7.248	13.812	1.00	0.00
ATOM	1033	HB3	GLN	66	9.828	6.944	12.532	1.00	0.00
ATOM	1034	CG	GLN	66	11.688	7.735	11.841	1.00	0.00
ATOM	1035	HG2	GLN	66	11.858	8.796	11.656	1.00	0.00
ATOM	1036	HG3	GLN	66	12.602	7.282	12.223	1.00	0.00
ATOM	1037	CD	GLN	66	11.336	7.081	10.556	1.00	0.00
ATOM	1038	OE1	GLN	66	10.057	6.951	10.299	1.00	0.00
ATOM	1039	NE2	GLN	66	12.217	6.669	9.799	1.00	0.00
ATOM	1040	HE21	GLN	66	11.963	6.226	8.927	1.00	0.00
ATOM	1041	HE22	GLN	66	13.188	6.777	10.054	1.00	0.00
ATOM	1042	C	GLN	66	9.053	9.390	12.052	1.00	0.00
ATOM	1043	O	GLN	66	7.852	9.106	11.966	1.00	0.00
ATOM	1044	N	ARG	67	9.714	10.139	11.174	1.00	0.00
ATOM	1045	H	ARG	67	10.719	10.066	11.114	1.00	0.00
ATOM	1046	CA	ARG	67	9.047	11.091	10.325	1.00	0.00
ATOM	1047	HA	ARG	67	8.388	11.736	10.906	1.00	0.00
ATOM	1048	CB	ARG	67	10.126	11.972	9.640	1.00	0.00
ATOM	1049	HB2	ARG	67	10.731	12.380	10.449	1.00	0.00
ATOM	1050	HB3	ARG	67	10.730	11.289	9.043	1.00	0.00
ATOM	1051	CG	ARG	67	9.626	13.109	8.758	1.00	0.00
ATOM	1052	HG2	ARG	67	10.494	13.606	8.324	1.00	0.00

ATOM	1053	HG3 ARG	67	9.020	12.677	7.962	1.00	0.00
ATOM	1054	CD ARG	67	8.794	14.126	9.535	1.00	0.00
ATOM	1055	HD2 ARG	67	8.469	13.666	10.468	1.00	0.00
ATOM	1056	HD3 ARG	67	9.422	14.989	9.756	1.00	0.00
ATOM	1057	NE ARG	67	7.604	14.585	8.795	1.00	0.00
ATOM	1058	HE ARG	67	7.703	14.622	7.790	1.00	0.00
ATOM	1059	CZ ARG	67	6.431	14.954	9.337	1.00	0.00
ATOM	1060	NH1 ARG	67	6.224	14.917	10.659	1.00	0.00
ATOM	1061	HH11 ARG	67	6.962	14.606	11.274	1.00	0.00
ATOM	1062	HH12 ARG	67	5.330	15.201	11.035	1.00	0.00
ATOM	1063	NH2 ARG	67	5.437	15.364	8.543	1.00	0.00
ATOM	1064	HH21 ARG	67	5.573	15.394	7.542	1.00	0.00
ATOM	1065	HH22 ARG	67	4.554	15.642	8.947	1.00	0.00
ATOM	1066	C ARG	67	8.185	10.305	9.294	1.00	0.00
ATOM	1067	O ARG	67	6.988	10.565	9.122	1.00	0.00
ATOM	1068	N CYX	68	8.840	9.339	8.687	1.00	0.00
ATOM	1069	H CYX	68	9.800	9.133	8.924	1.00	0.00
ATOM	1070	CA CYX	68	8.191	8.544	7.591	1.00	0.00
ATOM	1071	HA CYX	68	7.827	9.213	6.810	1.00	0.00
ATOM	1072	CB CYX	68	9.169	7.610	6.995	1.00	0.00
ATOM	1073	HB2 CYX	68	9.583	6.971	7.774	1.00	0.00
ATOM	1074	HB3 CYX	68	8.673	6.993	6.246	1.00	0.00

ATOM	1075	SG	CYX	68	10.538	8.548	6.226	1.00	0.00
ATOM	1076	C	CYX	68	7.015	7.802	8.149	1.00	0.00
ATOM	1077	O	CYX	68	5.922	7.789	7.555	1.00	0.00
ATOM	1078	N	ARG	69	7.147	7.260	9.370	1.00	0.00
ATOM	1079	H	ARG	69	8.001	7.267	9.909	1.00	0.00
ATOM	1080	CA	ARG	69	5.972	6.529	9.918	1.00	0.00
ATOM	1081	HA	ARG	69	5.602	5.826	9.171	1.00	0.00
ATOM	1082	CB	ARG	69	6.347	5.742	11.195	1.00	0.00
ATOM	1083	HB2	ARG	69	6.734	6.436	11.941	1.00	0.00
ATOM	1084	HB3	ARG	69	5.456	5.250	11.585	1.00	0.00
ATOM	1085	CG	ARG	69	7.392	4.711	10.881	1.00	0.00
ATOM	1086	HG2	ARG	69	7.070	4.170	9.991	1.00	0.00
ATOM	1087	HG3	ARG	69	8.324	5.234	10.670	1.00	0.00
ATOM	1088	CD	ARG	69	7.607	3.737	12.011	1.00	0.00
ATOM	1089	HD2	ARG	69	6.678	3.211	12.233	1.00	0.00
ATOM	1090	HD3	ARG	69	8.377	3.015	11.741	1.00	0.00
ATOM	1091	NE	ARG	69	8.039	4.457	13.214	1.00	0.00
ATOM	1092	HE	ARG	69	7.297	4.785	13.816	1.00	0.00
ATOM	1093	CZ	ARG	69	9.305	4.698	13.571	1.00	0.00
ATOM	1094	NH1	ARG	69	10.344	4.285	12.834	1.00	0.00
ATOM	1095	HH11	ARG	69	10.180	3.774	11.978	1.00	0.00
ATOM	1096	HH12	ARG	69	11.286	4.487	13.137	1.00	0.00

ATOM	1097	NH2	ARG	69	9.520	5.382	14.695	1.00	0.00
ATOM	1098	HH21	ARG	69	8.736	5.700	15.246	1.00	0.00
ATOM	1099	HH22	ARG	69	10.465	5.579	14.989	1.00	0.00
ATOM	1100	C	ARG	69	4.855	7.423	10.188	1.00	0.00
ATOM	1101	O	ARG	69	3.701	7.109	9.959	1.00	0.00
ATOM	1102	N	HIE	70	5.158	8.602	10.703	1.00	0.00
ATOM	1103	H	HIE	70	6.108	8.858	10.932	1.00	0.00
ATOM	1104	CA	HIE	70	4.142	9.531	10.954	1.00	0.00
ATOM	1105	HA	HIE	70	3.379	9.078	11.588	1.00	0.00
ATOM	1106	CB	HIE	70	4.699	10.770	11.667	1.00	0.00
ATOM	1107	HB2	HIE	70	5.171	10.533	12.620	1.00	0.00
ATOM	1108	HB3	HIE	70	5.425	11.249	11.011	1.00	0.00
ATOM	1109	CG	HIE	70	3.641	11.794	11.956	1.00	0.00
ATOM	1110	ND1	HIE	70	2.513	11.510	12.706	1.00	0.00
ATOM	1111	CE1	HIE	70	1.749	12.587	12.769	1.00	0.00
ATOM	1112	HE1	HIE	70	0.810	12.570	13.322	1.00	0.00
ATOM	1113	NE2	HIE	70	2.335	13.556	12.083	1.00	0.00
ATOM	1114	HE2	HIE	70	1.979	14.494	11.960	1.00	0.00
ATOM	1115	CD2	HIE	70	3.514	13.085	11.558	1.00	0.00
ATOM	1116	HD2	HIE	70	4.138	13.739	10.949	1.00	0.00
ATOM	1117	C	HIE	70	3.460	9.998	9.655	1.00	0.00
ATOM	1118	O	HIE	70	2.272	10.128	9.625	1.00	0.00

ATOM	1119	N	GLN	71	4.226	10.203	8.613	1.00	0.00
ATOM	1120	H	GLN	71	5.227	10.072	8.631	1.00	0.00
ATOM	1121	CA	GLN	71	3.608	10.658	7.367	1.00	0.00
ATOM	1122	HA	GLN	71	2.996	11.546	7.528	1.00	0.00
ATOM	1123	CB	GLN	71	4.713	11.004	6.424	1.00	0.00
ATOM	1124	HB2	GLN	71	5.465	10.216	6.462	1.00	0.00
ATOM	1125	HB3	GLN	71	4.305	11.068	5.415	1.00	0.00
ATOM	1126	CG	GLN	71	5.354	12.336	6.798	1.00	0.00
ATOM	1127	HG2	GLN	71	4.556	13.077	6.861	1.00	0.00
ATOM	1128	HG3	GLN	71	5.929	12.343	7.723	1.00	0.00
ATOM	1129	CD	GLN	71	6.238	12.697	5.697	1.00	0.00
ATOM	1130	OE1	GLN	71	5.751	12.902	4.621	1.00	0.00
ATOM	1131	NE2	GLN	71	7.510	12.685	5.904	1.00	0.00
ATOM	1132	HE21	GLN	71	8.142	12.932	5.156	1.00	0.00
ATOM	1133	HE22	GLN	71	7.868	12.430	6.813	1.00	0.00
ATOM	1134	C	GLN	71	2.699	9.577	6.735	1.00	0.00
ATOM	1135	O	GLN	71	1.627	9.878	6.233	1.00	0.00
ATOM	1136	N	PHE	72	3.115	8.333	6.854	1.00	0.00
ATOM	1137	H	PHE	72	4.032	8.143	7.231	1.00	0.00
ATOM	1138	CA	PHE	72	2.301	7.206	6.415	1.00	0.00
ATOM	1139	HA	PHE	72	2.088	7.278	5.348	1.00	0.00
ATOM	1140	CB	PHE	72	3.081	5.896	6.676	1.00	0.00

ATOM	1141	HB2 PHE	72	3.968	5.802	6.050	1.00	0.00
ATOM	1142	HB3 PHE	72	3.373	5.877	7.726	1.00	0.00
ATOM	1143	CG PHE	72	2.260	4.674	6.439	1.00	0.00
ATOM	1144	CD1 PHE	72	1.998	4.248	5.119	1.00	0.00
ATOM	1145	HD1 PHE	72	2.413	4.802	4.277	1.00	0.00
ATOM	1146	CE1 PHE	72	1.215	3.130	4.893	1.00	0.00
ATOM	1147	HE1 PHE	72	0.977	2.854	3.865	1.00	0.00
ATOM	1148	CZ PHE	72	0.736	2.368	5.941	1.00	0.00
ATOM	1149	HZ PHE	72	0.161	1.461	5.756	1.00	0.00
ATOM	1150	CE2 PHE	72	1.002	2.782	7.275	1.00	0.00
ATOM	1151	HE2 PHE	72	0.591	2.224	8.116	1.00	0.00
ATOM	1152	CD2 PHE	72	1.787	3.900	7.503	1.00	0.00
ATOM	1153	HD2 PHE	72	2.044	4.187	8.522	1.00	0.00
ATOM	1154	C PHE	72	0.947	7.155	7.122	1.00	0.00
ATOM	1155	O PHE	72	-0.094	7.142	6.522	1.00	0.00
ATOM	1156	N GLN	73	0.988	7.298	8.466	1.00	0.00
ATOM	1157	H GLN	73	1.800	6.798	8.797	1.00	0.00
ATOM	1158	CA GLN	73	-0.214	7.272	9.276	1.00	0.00
ATOM	1159	HA GLN	73	0.254	7.483	10.237	1.00	0.00
ATOM	1160	CB GLN	73	0.877	7.173	8.214	1.00	0.00
ATOM	1161	HB2 GLN	73	1.561	6.364	8.470	1.00	0.00
ATOM	1162	HB3 GLN	73	0.423	6.971	7.244	1.00	0.00

ATOM	1163	CG	GLN	73	1.646	8.488	8.151	1.00	0.00
ATOM	1164	HG2	GLN	73	0.963	9.297	7.895	1.00	0.00
ATOM	1165	HG3	GLN	73	2.101	8.690	9.121	1.00	0.00
ATOM	1166	CD	GLN	73	2.746	8.429	7.101	1.00	0.00
ATOM	1167	OE1	GLN	73	2.920	7.411	6.436	1.00	0.00
ATOM	1168	NE2	GLN	73	3.491	9.528	6.954	1.00	0.00
ATOM	1169	HE21	GLN	73	4.235	9.542	6.270	1.00	0.00
ATOM	1170	HE22	GLN	73	3.307	10.339	7.526	1.00	0.00
ATOM	1171	C	GLN	73	-1.127	8.455	8.903	1.00	0.00
ATOM	1172	O	GLN	73	-2.349	8.332	8.711	1.00	0.00
ATOM	1173	N	THR	74	-0.507	9.629	8.744	1.00	0.00
ATOM	1174	H	THR	74	0.488	9.702	8.897	1.00	0.00
ATOM	1175	CA	THR	74	-1.232	10.820	8.411	1.00	0.00
ATOM	1176	HA	THR	74	-2.100	10.972	9.052	1.00	0.00
ATOM	1177	CB	THR	74	-0.323	12.056	8.513	1.00	0.00
ATOM	1178	HB	THR	74	0.527	11.932	7.843	1.00	0.00
ATOM	1179	CG2	THR	74	-1.094	13.304	8.124	1.00	0.00
ATOM	1180	HG21	THR	74	-1.945	13.430	8.794	1.00	0.00
ATOM	1181	HG22	THR	74	-0.441	14.174	8.199	1.00	0.00
ATOM	1182	HG23	THR	74	-1.451	13.207	7.098	1.00	0.00
ATOM	1183	OG1	THR	74	0.206	12.144	9.837	1.00	0.00
ATOM	1184	HG1	THR	74	0.774	12.915	9.904	1.00	0.00

ATOM	1185	C	THR	74	-1.865	10.813	7.028	1.00	0.00
ATOM	1186	O	THR	74	-3.013	11.302	6.836	1.00	0.00
ATOM	1187	N	GLN	75	-1.182	10.168	6.061	1.00	0.00
ATOM	1188	H	GLN	75	-0.229	9.860	6.186	1.00	0.00
ATOM	1189	CA	GLN	75	-1.785	10.053	4.715	1.00	0.00
ATOM	1190	HA	GLN	75	-2.544	10.823	4.574	1.00	0.00
ATOM	1191	CB	GLN	75	-0.701	10.234	3.651	1.00	0.00
ATOM	1192	HB2	GLN	75	0.019	9.429	3.793	1.00	0.00
ATOM	1193	HB3	GLN	75	-1.187	10.120	2.682	1.00	0.00
ATOM	1194	CG	GLN	75	0.010	11.556	3.702	1.00	0.00
ATOM	1195	HG2	GLN	75	0.584	11.590	4.628	1.00	0.00
ATOM	1196	HG3	GLN	75	0.687	11.636	2.851	1.00	0.00
ATOM	1197	CD	GLN	75	-0.950	12.751	3.677	1.00	0.00
ATOM	1198	OE1	GLN	75	-1.972	12.723	3.003	1.00	0.00
ATOM	1199	NE2	GLN	75	-0.604	13.764	4.379	1.00	0.00
ATOM	1200	HE21	GLN	75	-1.195	14.583	4.404	1.00	0.00
ATOM	1201	HE22	GLN	75	0.258	13.740	4.905	1.00	0.00
ATOM	1202	C	GLN	75	-2.609	8.760	4.538	1.00	0.00
ATOM	1203	O	GLN	75	-2.569	8.024	3.512	1.00	0.00
ATOM	1204	N	GLN	76	-3.442	8.486	5.533	1.00	0.00
ATOM	1205	H	GLN	76	-3.302	8.923	6.433	1.00	0.00
ATOM	1206	CA	GLN	76	-4.474	7.478	5.412	1.00	0.00



ATOM	1207	HA	GLN	76	-5.008	7.403	6.359	1.00	0.00
ATOM	1208	CB	GLN	76	-5.487	7.813	4.302	1.00	0.00
ATOM	1209	HB2	GLN	76	-5.152	7.233	3.442	1.00	0.00
ATOM	1210	HB3	GLN	76	-6.433	7.411	4.665	1.00	0.00
ATOM	1211	CG	GLN	76	-5.681	9.283	3.884	1.00	0.00
ATOM	1212	HG2	GLN	76	-4.746	9.647	3.459	1.00	0.00
ATOM	1213	HG3	GLN	76	-6.459	9.305	3.120	1.00	0.00
ATOM	1214	CD	GLN	76	-6.088	10.201	5.014	1.00	0.00
ATOM	1215	OE1	GLN	76	-5.469	11.245	5.244	1.00	0.00
ATOM	1216	NE2	GLN	76	-7.146	9.824	5.722	1.00	0.00
ATOM	1217	HE21	GLN	76	-7.466	10.397	6.490	1.00	0.00
ATOM	1218	HE22	GLN	76	-7.626	8.967	5.489	1.00	0.00
ATOM	1219	C	GLN	76	-3.831	6.109	5.231	1.00	0.00
ATOM	1220	O	GLN	76	-4.418	5.223	4.606	1.00	0.00
ATOM	1221	N	ARG	77	-2.635	5.906	5.773	1.00	0.00
ATOM	1222	H	ARG	77	-3.392	5.979	6.438	1.00	0.00
ATOM	1223	CA	ARG	77	-1.946	4.637	5.653	1.00	0.00
ATOM	1224	HA	ARG	77	-2.873	5.205	5.738	1.00	0.00
ATOM	1225	CB	ARG	77	-0.785	5.536	6.066	1.00	0.00
ATOM	1226	HB2	ARG	77	-0.922	5.857	7.099	1.00	0.00
ATOM	1227	HB3	ARG	77	0.151	4.985	5.978	1.00	0.00
ATOM	1228	CG	ARG	77	-0.742	6.760	5.156	1.00	0.00

ATOM	1229	HG2 ARG	77	-0.604	6.440	4.123	1.00	0.00
ATOM	1230	HG3 ARG	77	-1.677	7.312	5.244	1.00	0.00
ATOM	1231	CD ARG	77	0.419	7.659	5.569	1.00	0.00
ATOM	1232	HD2 ARG	77	0.282	7.979	6.602	1.00	0.00
ATOM	1233	HD3 ARG	77	1.355	7.107	5.481	1.00	0.00
ATOM	1234	NE ARG	77	0.493	8.859	4.706	1.00	0.00
ATOM	1235	HE ARG	77	-0.190	8.966	3.969	1.00	0.00
ATOM	1236	CZ ARG	77	1.417	9.804	4.857	1.00	0.00
ATOM	1237	NH1 ARG	77	2.349	9.734	5.803	1.00	0.00
ATOM	1238	HH11 ARG	77	2.366	8.944	6.433	1.00	0.00
ATOM	1239	HH12 ARG	77	3.035	10.470	5.888	1.00	0.00
ATOM	1240	NH2 ARG	77	1.391	10.841	4.025	1.00	0.00
ATOM	1241	HH21 ARG	77	0.682	10.891	3.307	1.00	0.00
ATOM	1242	HH22 ARG	77	2.080	11.574	4.115	1.00	0.00
ATOM	1243	C ARG	77	-1.742	4.255	4.201	1.00	0.00
ATOM	1244	O ARG	77	-1.660	3.082	3.859	1.00	0.00
ATOM	1245	N LEU	78	-1.677	5.272	3.345	1.00	0.00
ATOM	1246	H LEU	78	-1.722	6.228	3.668	1.00	0.00
ATOM	1247	CA LEU	78	-1.677	5.015	1.835	1.00	0.00
ATOM	1248	HA LEU	78	-2.007	5.912	1.310	1.00	0.00
ATOM	1249	CB LEU	78	-0.284	4.655	1.352	1.00	0.00
ATOM	1250	HB2 LEU	78	-0.121	3.711	1.871	1.00	0.00

ATOM	1251	HB3	LEU	78	-0.328	4.475	0.278	1.00	0.00
ATOM	1252	CG	LEU	78	0.863	5.609	1.660	1.00	0.00
ATOM	1253	HG	LEU	78	0.972	5.694	2.741	1.00	0.00
ATOM	1254	CD1	LEU	78	2.151	5.098	1.063	1.00	0.00
ATOM	1255	HD11	LEU	78	2.042	5.013	-0.018	1.00	0.00
ATOM	1256	HD12	LEU	78	2.959	5.792	1.293	1.00	0.00
ATOM	1257	HD13	LEU	78	2.383	4.119	1.482	1.00	0.00
ATOM	1258	CD2	LEU	78	0.497	7.042	1.171	1.00	0.00
ATOM	1259	HD21	LEU	78	-0.404	7.382	1.682	1.00	0.00
ATOM	1260	HD22	LEU	78	1.319	7.723	1.392	1.00	0.00
ATOM	1261	HD23	LEU	78	0.319	7.026	0.095	1.00	0.00
ATOM	1262	C	LEU	78	-2.713	3.980	1.460	1.00	0.00
ATOM	1263	O	LEU	78	-2.497	3.064	0.606	1.00	0.00
ATOM	1264	N	ARG	79	-3.916	4.108	2.053	1.00	0.00
ATOM	1265	H	ARG	79	-4.109	4.880	2.676	1.00	0.00
ATOM	1266	CA	ARG	79	-4.958	3.110	1.846	1.00	0.00
ATOM	1267	HA	ARG	79	-4.629	2.138	2.213	1.00	0.00
ATOM	1268	CB	ARG	79	-6.213	3.518	2.608	1.00	0.00
ATOM	1269	HB2	ARG	79	-5.885	3.928	3.563	1.00	0.00
ATOM	1270	HB3	ARG	79	-6.698	4.301	2.024	1.00	0.00
ATOM	1271	CG	ARG	79	-7.188	2.399	2.852	1.00	0.00
ATOM	1272	HG2	ARG	79	-7.627	2.082	1.906	1.00	0.00

ATOM	1273	HG3 ARG	79	-6.673	1.557	3.313	1.00	0.00
ATOM	1274	CD ARG	79	-8.302	2.897	3.794	1.00	0.00
ATOM	1275	HD2 ARG	79	-9.014	3.504	3.234	1.00	0.00
ATOM	1276	HD3 ARG	79	-8.820	2.045	4.234	1.00	0.00
ATOM	1277	NE ARG	79	-7.731	3.720	4.884	1.00	0.00
ATOM	1278	HE ARG	79	-6.875	3.360	5.281	1.00	0.00
ATOM	1279	CZ ARG	79	-8.233	4.865	5.375	1.00	0.00
ATOM	1280	NH1 ARG	79	-9.373	5.391	4.912	1.00	0.00
ATOM	1281	HH11 ARG	79	-9.879	4.923	4.173	1.00	0.00
ATOM	1282	HH12 ARG	79	-9.723	6.254	5.303	1.00	0.00
ATOM	1283	NH2 ARG	79	-7.581	5.502	6.354	1.00	0.00
ATOM	1284	HH21 ARG	79	-6.720	5.119	6.715	1.00	0.00
ATOM	1285	HH22 ARG	79	-7.954	6.364	6.727	1.00	0.00
ATOM	1286	C ARG	79	-5.320	2.895	0.376	1.00	0.00
ATOM	1287	O ARG	79	-5.476	1.811	-0.059	1.00	0.00
ATOM	1288	N ALA	80	-5.298	3.939	-0.440	1.00	0.00
ATOM	1289	H ALA	80	-5.161	4.891	-0.133	1.00	0.00
ATOM	1290	CA ALA	80	-5.541	3.700	-1.851	1.00	0.00
ATOM	1291	HA ALA	80	-6.430	3.073	-1.927	1.00	0.00
ATOM	1292	CB ALA	80	-5.807	5.013	-2.582	1.00	0.00
ATOM	1293	HB1 ALA	80	-4.923	5.648	-2.523	1.00	0.00
ATOM	1294	HB2 ALA	80	-6.037	4.808	-3.628	1.00	0.00

ATOM	1295	HB3	ALA	80	-6.652	5.523	-2.119	1.00	0.00
ATOM	1296	C	ALA	80	-4.403	2.983	-2.530	1.00	0.00
ATOM	1297	O	ALA	80	-4.680	2.160	-3.439	1.00	0.00
ATOM	1298	N	CYX	81	-3.158	3.188	-2.133	1.00	0.00
ATOM	1299	H	CYX	81	-2.966	3.866	-1.409	1.00	0.00
ATOM	1300	CA	CYX	81	-2.044	2.463	-2.708	1.00	0.00
ATOM	1301	HA	CYX	81	-2.116	2.551	-3.792	1.00	0.00
ATOM	1302	CB	CYX	81	-0.709	2.942	-2.282	1.00	0.00
ATOM	1303	HB2	CYX	81	-0.601	2.808	-1.206	1.00	0.00
ATOM	1304	HB3	CYX	81	0.063	2.373	-2.799	1.00	0.00
ATOM	1305	SG	CYX	81	-0.565	4.771	-2.700	1.00	0.00
ATOM	1306	C	CYX	81	-2.136	0.984	-2.303	1.00	0.00
ATOM	1307	O	CYX	81	-1.834	0.100	-3.029	1.00	0.00
ATOM	1308	N	GLN	82	-2.624	0.785	-1.058	1.00	0.00
ATOM	1309	H	GLN	82	-2.841	1.527	-0.408	1.00	0.00
ATOM	1310	CA	GLN	82	-2.811	-0.602	-0.619	1.00	0.00
ATOM	1311	HA	GLN	82	-1.858	-1.127	-0.680	1.00	0.00
ATOM	1312	CB	GLN	82	-3.321	-0.679	0.824	1.00	0.00
ATOM	1313	HB2	GLN	82	-4.241	-0.095	0.854	1.00	0.00
ATOM	1314	HB3	GLN	82	-3.551	-1.728	1.011	1.00	0.00
ATOM	1315	CG	GLN	82	-2.379	-0.180	1.873	1.00	0.00
ATOM	1316	HG2	GLN	82	-1.459	-0.763	1.858	1.00	0.00

ATOM	1317	HG3	GLN	82	-2.143	0.875	1.728	1.00	0.00
ATOM	1318	CD	GLN	82	-3.040	-0.348	3.235	1.00	0.00
ATOM	1319	OE1	GLN	82	-3.652	-1.375	3.483	1.00	0.00
ATOM	1320	NE2	GLN	82	-2.933	0.650	4.097	1.00	0.00
ATOM	1321	HE21	GLN	82	-3.359	0.573	5.009	1.00	0.00
ATOM	1322	HE22	GLN	82	-2.426	1.485	3.838	1.00	0.00
ATOM	1323	C	GLN	82	-3.781	-1.293	-1.532	1.00	0.00
ATOM	1324	O	GLN	82	-3.485	-2.432	-1.902	1.00	0.00
ATOM	1325	N	ARG	83	-4.850	-0.633	-1.939	1.00	0.00
ATOM	1326	H	ARG	83	-5.025	0.250	-1.480	1.00	0.00
ATOM	1327	CA	ARG	83	-5.830	-1.122	-2.872	1.00	0.00
ATOM	1328	HA	ARG	83	-6.169	-2.105	-2.547	1.00	0.00
ATOM	1329	CB	ARG	83	-7.021	-0.214	-2.972	1.00	0.00
ATOM	1330	HB2	ARG	83	-6.583	0.764	-3.175	1.00	0.00
ATOM	1331	HB3	ARG	83	-7.542	-0.569	-3.862	1.00	0.00
ATOM	1332	CG	ARG	83	-8.010	-0.098	-1.817	1.00	0.00
ATOM	1333	HG2	ARG	83	-8.352	-1.098	-1.551	1.00	0.00
ATOM	1334	HG3	ARG	83	-7.498	0.350	-0.965	1.00	0.00
ATOM	1335	CD	ARG	83	-9.222	0.773	-2.203	1.00	0.00
ATOM	1336	HD2	ARG	83	-8.965	1.393	-3.062	1.00	0.00
ATOM	1337	HD3	ARG	83	-10.065	0.131	-2.459	1.00	0.00
ATOM	1338	NE	ARG	83	-9.619	1.652	-1.088	1.00	0.00

ATOM	1339	HE	ARG	83	-9.426	2.637	-1.205	1.00	0.00
ATOM	1340	CZ	ARG	83	-10.218	1.248	0.040	1.00	0.00
ATOM	1341	NH1	ARG	83	-10.515	-0.037	0.245	1.00	0.00
ATOM	1342	HH11	ARG	83	-10.287	-0.723	-0.460	1.00	0.00
ATOM	1343	HH12	ARG	83	-10.967	-0.317	1.104	1.00	0.00
ATOM	1344	NH2	ARG	83	-10.516	2.138	0.991	1.00	0.00
ATOM	1345	HH21	ARG	83	-10.289	3.113	0.855	1.00	0.00
ATOM	1346	HH22	ARG	83	-10.968	1.832	1.841	1.00	0.00
ATOM	1347	C	ARG	83	-5.218	-1.410	-4.276	1.00	0.00
ATOM	1348	O	ARG	83	-5.409	-2.483	-4.853	1.00	0.00
ATOM	1349	N	VAL	84	-4.381	-0.485	-4.731	1.00	0.00
ATOM	1350	H	VAL	84	-4.345	0.429	-4.302	1.00	0.00
ATOM	1351	CA	VAL	84	-3.634	-0.700	-5.957	1.00	0.00
ATOM	1352	HA	VAL	84	-4.309	-0.967	-6.771	1.00	0.00
ATOM	1353	CB	VAL	84	-2.836	0.547	-6.370	1.00	0.00
ATOM	1354	HB	VAL	84	-2.230	0.847	-5.516	1.00	0.00
ATOM	1355	CG1	VAL	84	-1.924	0.312	-7.590	1.00	0.00
ATOM	1356	HG11	VAL	84	-2.530	0.013	-8.445	1.00	0.00
ATOM	1357	HG12	VAL	84	-1.390	1.232	-7.828	1.00	0.00
ATOM	1358	HG13	VAL	84	-1.206	-0.475	-7.361	1.00	0.00
ATOM	1359	CG2	VAL	84	-3.851	1.642	-6.675	1.00	0.00
ATOM	1360	HG21	VAL	84	-4.448	1.843	-5.785	1.00	0.00

ATOM	1361	HG22	VAL	84	-3.328	2.551	-6.974	1.00	0.00
ATOM	1362	HG23	VAL	84	-4.505	1.317	-7.485	1.00	0.00
ATOM	1363	C	VAL	84	-2.794	-1.937	-5.892	1.00	0.00
ATOM	1364	O	VAL	84	-2.674	-2.748	-6.840	1.00	0.00
ATOM	1365	N	ILE	85	-2.009	-2.065	-4.824	1.00	0.00
ATOM	1366	H	ILE	85	-2.094	-1.410	-4.059	1.00	0.00
ATOM	1367	CA	ILE	85	-1.056	-3.140	-4.702	1.00	0.00
ATOM	1368	HA	ILE	85	-0.349	-3.173	-5.531	1.00	0.00
ATOM	1369	CB	ILE	85	-0.285	-2.976	-3.375	1.00	0.00
ATOM	1370	HB	ILE	85	-0.990	-2.663	-2.605	1.00	0.00
ATOM	1371	CG2	ILE	85	0.385	-4.267	-2.952	1.00	0.00
ATOM	1372	HG21	ILE	85	1.090	-4.580	-3.722	1.00	0.00
ATOM	1373	HG22	ILE	85	0.917	-4.110	-2.014	1.00	0.00
ATOM	1374	HG23	ILE	85	-0.370	-5.041	-2.816	1.00	0.00
ATOM	1375	CG1	ILE	85	0.714	-1.882	-3.474	1.00	0.00
ATOM	1376	HG12	ILE	85	1.618	-2.298	-3.918	1.00	0.00
ATOM	1377	HG13	ILE	85	0.304	-1.117	-4.134	1.00	0.00
ATOM	1378	CD1	ILE	85	1.045	-1.270	-2.146	1.00	0.00
ATOM	1379	HD11	ILE	85	1.455	-2.034	-1.486	1.00	0.00
ATOM	1380	HD12	ILE	85	1.780	-0.477	-2.284	1.00	0.00
ATOM	1381	HD13	ILE	85	0.141	-0.853	-1.702	1.00	0.00
ATOM	1382	C	ILE	85	-1.910	-4.456	-4.673	1.00	0.00



ATOM	1383	O	ILE	85	-1.497	-5.406	-5.324	1.00	0.00
ATOM	1384	N	GLN	86	-3.011	-4.491	-3.977	1.00	0.00
ATOM	1385	H	GLN	86	-3.285	-3.704	-3.406	1.00	0.00
ATOM	1386	CA	GLN	86	-3.869	-5.726	-3.948	1.00	0.00
ATOM	1387	HA	GLN	86	-3.271	-6.598	-3.685	1.00	0.00
ATOM	1388	CB	GLN	86	-4.941	-5.558	-2.925	1.00	0.00
ATOM	1389	HB2	GLN	86	-5.418	-4.589	-3.078	1.00	0.00
ATOM	1390	HB3	GLN	86	-5.678	-6.350	-3.061	1.00	0.00
ATOM	1391	CG	GLN	86	-4.369	-5.629	-1.499	1.00	0.00
ATOM	1392	HG2	GLN	86	-3.639	-6.419	-1.327	1.00	0.00
ATOM	1393	HG3	GLN	86	-3.903	-4.659	-1.326	1.00	0.00
ATOM	1394	CD	GLN	86	-5.515	-5.801	-0.510	1.00	0.00
ATOM	1395	OE1	GLN	86	-6.059	-4.821	0.060	1.00	0.00
ATOM	1396	NE2	GLN	86	-5.975	-7.037	-0.394	1.00	0.00
ATOM	1397	HE21	GLN	86	-6.735	-7.232	0.242	1.00	0.00
ATOM	1398	HE22	GLN	86	-5.564	-7.779	-0.942	1.00	0.00
ATOM	1399	C	GLN	86	-4.464	-6.012	-5.343	1.00	0.00
ATOM	1400	O	GLN	86	-4.449	-7.129	-5.790	1.00	0.00
ATOM	1401	N	ARG	87	-4.907	-4.957	-6.006	1.00	0.00
ATOM	1402	H	ARG	87	-4.826	-4.041	-5.587	1.00	0.00
ATOM	1403	CA	ARG	87	-5.530	-5.064	-7.384	1.00	0.00
ATOM	1404	HA	ARG	87	-6.496	-5.568	-7.345	1.00	0.00

ATOM	1405	CB	ARG	87	-5.741	-3.654	-7.895	1.00	0.00
ATOM	1406	HB2	ARG	87	-6.571	-3.208	-7.347	1.00	0.00
ATOM	1407	HB3	ARG	87	-4.834	-3.079	-7.710	1.00	0.00
ATOM	1408	CG	ARG	87	-6.055	-3.642	-9.392	1.00	0.00
ATOM	1409	HG2	ARG	87	-5.252	-4.122	-9.951	1.00	0.00
ATOM	1410	HG3	ARG	87	-6.993	-4.162	-9.586	1.00	0.00
ATOM	1411	CD	ARG	87	-6.179	-2.214	-9.825	1.00	0.00
ATOM	1412	HD2	ARG	87	-5.363	-1.623	-9.409	1.00	0.00
ATOM	1413	HD3	ARG	87	-6.157	-2.148	-10.913	1.00	0.00
ATOM	1414	NE	ARG	87	-7.434	-1.667	-9.353	1.00	0.00
ATOM	1415	HE	ARG	87	-8.119	-2.296	-8.960	1.00	0.00
ATOM	1416	CZ	ARG	87	-7.697	-0.344	-9.346	1.00	0.00
ATOM	1417	NH1	ARG	87	-6.817	0.536	-9.805	1.00	0.00
ATOM	1418	HH11	ARG	87	-5.931	0.217	-10.169	1.00	0.00
ATOM	1419	HH12	ARG	87	-7.038	1.522	-9.789	1.00	0.00
ATOM	1420	NH2	ARG	87	-8.928	0.084	-8.929	1.00	0.00
ATOM	1421	HH21	ARG	87	-9.620	-0.589	-8.634	1.00	0.00
ATOM	1422	HH22	ARG	87	-9.139	1.072	-8.919	1.00	0.00
ATOM	1423	C	ARG	87	-4.616	-5.815	-8.325	1.00	0.00
ATOM	1424	O	ARG	87	-5.054	-6.708	-9.014	1.00	0.00
ATOM	1425	N	TRP	88	-3.312	-5.522	-8.341	1.00	0.00
ATOM	1426	H	TRP	88	-3.011	-4.779	-7.727	1.00	0.00

ATOM	1427	CA	TRP	88	-2.334	-6.104	-9.256	1.00	0.00
ATOM	1428	HA	TRP	88	-2.834	-6.495	-10.142	1.00	0.00
ATOM	1429	CB	TRP	88	-1.352	-5.049	-9.685	1.00	0.00
ATOM	1430	HB2	TRP	88	-1.067	-4.510	-8.782	1.00	0.00
ATOM	1431	HB3	TRP	88	-0.455	-5.376	-10.211	1.00	0.00
ATOM	1432	CG	TRP	88	-2.041	-4.049	-10.586	1.00	0.00
ATOM	1433	CD1	TRP	88	-2.555	-2.819	-10.266	1.00	0.00
ATOM	1434	HD1	TRP	88	-2.395	-2.460	-9.250	1.00	0.00
ATOM	1435	NE1	TRP	88	-3.176	-2.298	-11.330	1.00	0.00
ATOM	1436	HE1	TRP	88	-3.561	-1.365	-11.378	1.00	0.00
ATOM	1437	CE2	TRP	88	-3.127	-3.199	-12.373	1.00	0.00
ATOM	1438	CZ2	TRP	88	-3.606	-3.104	-13.687	1.00	0.00
ATOM	1439	HZ2	TRP	88	-4.106	-2.191	-14.013	1.00	0.00
ATOM	1440	CH2	TRP	88	-3.412	-4.164	-14.466	1.00	0.00
ATOM	1441	HH2	TRP	88	-3.854	-4.154	-15.463	1.00	0.00
ATOM	1442	CZ3	TRP	88	-2.681	-5.267	-14.068	1.00	0.00
ATOM	1443	HZ3	TRP	88	-2.484	-6.096	-14.747	1.00	0.00
ATOM	1444	CE3	TRP	88	-2.188	-5.344	-12.814	1.00	0.00
ATOM	1445	HE3	TRP	88	-1.659	-6.251	-12.521	1.00	0.00
ATOM	1446	CD2	TRP	88	-2.404	-4.287	-11.951	1.00	0.00
ATOM	1447	C	TRP	88	-1.622	-7.317	-8.751	1.00	0.00
ATOM	1448	O	TRP	88	-0.785	-7.820	-9.449	1.00	0.00

ATOM	1449	N	SER	89	-2.108	-7.829	-7.639	1.00	0.00
ATOM	1450	H	SER	89	-2.882	-7.340	-7.212	1.00	0.00
ATOM	1451	CA	SER	89	-1.552	-8.981	-6.945	1.00	0.00
ATOM	1452	HA	SER	89	-0.703	-9.393	-7.490	1.00	0.00
ATOM	1453	CB	SER	89	-1.063	-8.510	-5.543	1.00	0.00
ATOM	1454	HB2	SER	89	-1.862	-7.995	-5.010	1.00	0.00
ATOM	1455	HB3	SER	89	-0.719	-9.357	-4.951	1.00	0.00
ATOM	1456	OG	SER	89	0.025	-7.606	-5.759	1.00	0.00
ATOM	1457	HG	SER	89	0.354	-7.293	-4.913	1.00	0.00
ATOM	1458	C	SER	89	-2.519	-10.127	-6.853	1.00	0.00
ATOM	1459	O	SER	89	-2.260	-11.047	-6.130	1.00	0.00
ATOM	1460	N	GLN	90	-3.628	-10.087	-7.568	1.00	0.00
ATOM	1461	H	GLN	90	-3.840	-9.291	-8.153	1.00	0.00
ATOM	1462	CA	GLN	90	-4.626	-11.177	-7.478	1.00	0.00
ATOM	1463	HA	GLN	90	-4.884	-11.344	-6.432	1.00	0.00
ATOM	1464	CB	GLN	90	-5.914	-10.829	-8.254	1.00	0.00
ATOM	1465	HB2	GLN	90	-5.732	-11.114	-9.290	1.00	0.00
ATOM	1466	HB3	GLN	90	-6.700	-11.458	-7.837	1.00	0.00
ATOM	1467	CG	GLN	90	-6.352	-9.361	-8.198	1.00	0.00
ATOM	1468	HG2	GLN	90	-6.050	-8.975	-7.224	1.00	0.00
ATOM	1469	HG3	GLN	90	-5.806	-8.836	-8.982	1.00	0.00
ATOM	1470	CD	GLN	90	-7.827	-9.102	-8.382	1.00	0.00

ATOM	1471	OE1	GLN	90	-8.625	-10.023	-8.583	1.00	0.00
ATOM	1472	NE2	GLN	90	-8.206	-7.818	-8.313	1.00	0.00
ATOM	1473	HE21	GLN	90	-9.180	-7.575	-8.428	1.00	0.00
ATOM	1474	HE22	GLN	90	-7.516	-7.099	-8.147	1.00	0.00
ATOM	1475	C	GLN	90	-4.052	-12.521	-7.992	1.00	0.00
ATOM	1476	O	GLN	90	-4.046	-13.539	-7.276	1.00	0.00
ATOM	1477	OXT	GLN	90	-3.593	-12.583	-9.130	1.00	0.00

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ATOM	1478	S1	LIG	91	16.716	-11.091	-2.377	1.00	0.00
ATOM	1479	O1	LIG	91	18.740	-14.883	-0.750	1.00	0.00
ATOM	1480	O2	LIG	91	15.322	-10.499	-2.998	1.00	0.00
ATOM	1481	O3	LIG	91	17.192	-10.691	-0.871	1.00	0.00
ATOM	1482	N1	LIG	91	16.346	-12.911	-2.449	1.00	0.00
ATOM	1483	H1	LIG	91	15.338	-13.006	-2.543	1.00	0.00
ATOM	1484	N2	LIG	91	18.378	-13.723	-1.560	1.00	0.00
ATOM	1485	N3	LIG	91	21.125	-10.049	-6.310	1.00	0.00
ATOM	1486	H10	LIG	91	20.928	-9.644	-7.209	1.00	0.00
ATOM	1487	H11	LIG	91	22.083	-10.260	-6.090	1.00	0.00
ATOM	1488	C1	LIG	91	18.087	-10.810	-3.584	1.00	0.00
ATOM	1489	C2	LIG	91	17.753	-10.251	-4.817	1.00	0.00
ATOM	1490	H2	LIG	91	16.719	-10.013	-5.042	1.00	0.00
ATOM	1491	C3	LIG	91	19.397	-11.124	-3.226	1.00	0.00

ATOM	1492	H3	LIG	91	19.614	-11.583	-2.269	1.00	0.00
ATOM	1493	C4	LIG	91	17.056	-13.841	-1.714	1.00	0.00
ATOM	1494	C5	LIG	91	20.117	-10.301	-5.407	1.00	0.00
ATOM	1495	C6	LIG	91	18.772	-9.995	-5.728	1.00	0.00
ATOM	1496	H4	LIG	91	18.535	-9.556	-6.692	1.00	0.00
ATOM	1497	C7	LIG	91	20.410	-10.870	-4.144	1.00	0.00
ATOM	1498	H5	LIG	91	21.437	-11.113	-3.891	1.00	0.00
ATOM	1499	C8	LIG	91	16.525	-15.013	-1.074	1.00	0.00
ATOM	1500	H6	LIG	91	15.495	-15.329	-1.050	1.00	0.00
ATOM	1501	C9	LIG	91	17.601	-15.627	-0.501	1.00	0.00
ATOM	1502	C10	LIG	91	17.772	-16.862	0.309	1.00	0.00
ATOM	1503	H7	LIG	91	16.810	-17.361	0.450	1.00	0.00
ATOM	1504	H8	LIG	91	18.458	-17.560	-0.183	1.00	0.00
ATOM	1505	H9	LIG	91	18.191	-16.627	1.293	1.00	0.00
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ATOM	1506	S1	LIG	92	-16.163	18.755	2.344	1.00	0.00
ATOM	1507	O1	LIG	92	-14.588	21.874	5.330	1.00	0.00
ATOM	1508	O2	LIG	92	-17.513	17.991	1.818	1.00	0.00
ATOM	1509	O3	LIG	92	-15.430	19.878	1.418	1.00	0.00
ATOM	1510	N1	LIG	92	-16.834	19.557	3.881	1.00	0.00
ATOM	1511	H1	LIG	92	-17.847	19.562	3.797	1.00	0.00
ATOM	1512	N2	LIG	92	-14.860	20.633	4.610	1.00	0.00

ATOM	1513	N3	LIG	92	-12.214	14.603	4.119	1.00	0.00
ATOM	1514	H10	LIG	92	-12.461	13.628	4.130	1.00	0.00
ATOM	1515	H11	LIG	92	-11.283	14.854	4.403	1.00	0.00
ATOM	1516	C1	LIG	92	-14.940	17.498	2.927	1.00	0.00
ATOM	1517	C2	LIG	92	-15.341	16.163	2.924	1.00	0.00
ATOM	1518	H2	LIG	92	-16.343	15.898	2.604	1.00	0.00
ATOM	1519	C3	LIG	92	-13.663	17.904	3.311	1.00	0.00
ATOM	1520	H3	LIG	92	-13.397	18.954	3.325	1.00	0.00
ATOM	1521	C4	LIG	92	-16.192	20.610	4.507	1.00	0.00
ATOM	1522	C5	LIG	92	-13.119	15.562	3.724	1.00	0.00
ATOM	1523	C6	LIG	92	-14.426	15.194	3.323	1.00	0.00
ATOM	1524	H4	LIG	92	-14.715	14.148	3.325	1.00	0.00
ATOM	1525	C7	LIG	92	-12.755	16.930	3.712	1.00	0.00
ATOM	1526	H5	LIG	92	-11.757	17.223	4.023	1.00	0.00
ATOM	1527	C8	LIG	92	-16.817	21.745	5.128	1.00	0.00
ATOM	1528	H6	LIG	92	-17.872	21.958	5.178	1.00	0.00
ATOM	1529	C9	LIG	92	-15.789	22.491	5.627	1.00	0.00
ATOM	1530	C10	LIG	92	-15.716	23.775	6.372	1.00	0.00
ATOM	1531	H7	LIG	92	-16.719	24.174	6.543	1.00	0.00
ATOM	1532	H8	LIG	92	-15.226	23.637	7.343	1.00	0.00
ATOM	1533	H9	LIG	92	-15.135	24.516	5.813	1.00	0.00

TER

ATOM	1534	S1	LIG	93	14.666	-11.246	18.235	1.00	0.00
ATOM	1535	O1	LIG	93	18.293	-8.427	18.107	1.00	0.00
ATOM	1536	O2	LIG	93	14.128	-12.730	17.800	1.00	0.00
ATOM	1537	O3	LIG	93	14.973	-10.900	19.797	1.00	0.00
ATOM	1538	N1	LIG	93	16.248	-11.186	17.261	1.00	0.00
ATOM	1539	H1	LIG	93	16.477	-12.143	17.006	1.00	0.00
ATOM	1540	N2	LIG	93	16.980	-9.034	17.907	1.00	0.00
ATOM	1541	N3	LIG	93	10.994	-7.138	15.863	1.00	0.00
ATOM	1542	H10	LIG	93	10.247	-7.408	15.247	1.00	0.00
ATOM	1543	H11	LIG	93	11.096	-6.160	16.076	1.00	0.00
ATOM	1544	C1	LIG	93	13.568	-9.959	17.491	1.00	0.00
ATOM	1545	C2	LIG	93	12.553	-10.395	16.641	1.00	0.00
ATOM	1546	H2	LIG	93	12.441	-11.451	16.427	1.00	0.00
ATOM	1547	C3	LIG	93	13.758	-8.617	17.820	1.00	0.00
ATOM	1548	H3	LIG	93	14.575	-8.315	18.463	1.00	0.00
ATOM	1549	C4	LIG	93	17.261	-10.291	17.550	1.00	0.00
ATOM	1550	C5	LIG	93	11.847	-8.074	16.402	1.00	0.00
ATOM	1551	C6	LIG	93	11.690	-9.448	16.097	1.00	0.00
ATOM	1552	H4	LIG	93	10.890	-9.764	15.437	1.00	0.00
ATOM	1553	C7	LIG	93	12.894	-7.676	17.269	1.00	0.00
ATOM	1554	H5	LIG	93	13.026	-6.625	17.504	1.00	0.00
ATOM	1555	C8	LIG	93	18.673	-10.547	17.483	1.00	0.00



ATOM	1556	H6	LIG	93	19.152	-11.477	17.224	1.00	0.00
ATOM	1557	C9	LIG	93	19.268	-9.367	17.827	1.00	0.00
ATOM	1558	C10	LIG	93	20.681	-8.929	17.967	1.00	0.00
ATOM	1559	H7	LIG	93	21.360	-9.752	17.732	1.00	0.00
ATOM	1560	H8	LIG	93	20.899	-8.092	17.295	1.00	0.00
ATOM	1561	H9	LIG	93	20.883	-8.591	18.989	1.00	0.00
TER									
ATOM	1562	S1	LIG	94	14.772	14.391	-18.260	1.00	0.00
ATOM	1563	O1	LIG	94	18.705	15.354	-16.086	1.00	0.00
ATOM	1564	O2	LIG	94	13.222	14.877	-18.469	1.00	0.00
ATOM	1565	O3	LIG	94	15.868	14.574	-19.452	1.00	0.00
ATOM	1566	N1	LIG	94	15.244	15.455	-16.812	1.00	0.00
ATOM	1567	H1	LIG	94	14.567	16.212	-16.765	1.00	0.00
ATOM	1568	N2	LIG	94	17.472	14.716	-16.539	1.00	0.00
ATOM	1569	N3	LIG	94	14.724	8.715	-16.316	1.00	0.00
ATOM	1570	H10	LIG	94	13.858	8.250	-16.105	1.00	0.00
ATOM	1571	H11	LIG	94	15.577	8.194	-16.202	1.00	0.00
ATOM	1572	C1	LIG	94	14.785	12.653	-17.631	1.00	0.00
ATOM	1573	C2	LIG	94	13.554	12.062	-17.351	1.00	0.00
ATOM	1574	H2	LIG	94	12.638	12.625	-17.490	1.00	0.00
ATOM	1575	C3	LIG	94	15.998	11.979	-17.490	1.00	0.00
ATOM	1576	H3	LIG	94	16.936	12.481	-17.692	1.00	0.00

ATOM	1577	C4	LIG	94	16.561	15.691	-16.465	1.00	0.00
ATOM	1578	C5	LIG	94	14.743	10.021	-16.751	1.00	0.00
ATOM	1579	C6	LIG	94	13.535	10.742	-16.912	1.00	0.00
ATOM	1580	H4	LIG	94	12.588	10.261	-16.692	1.00	0.00
ATOM	1581	C7	LIG	94	15.971	10.662	-17.046	1.00	0.00
ATOM	1582	H5	LIG	94	16.903	10.119	-16.922	1.00	0.00
ATOM	1583	C8	LIG	94	17.109	16.926	-15.974	1.00	0.00
ATOM	1584	H6	LIG	94	16.584	17.855	-15.827	1.00	0.00
ATOM	1585	C9	LIG	94	18.430	16.667	-15.747	1.00	0.00
ATOM	1586	C10	LIG	94	19.569	17.483	-15.251	1.00	0.00
ATOM	1587	H7	LIG	94	19.239	18.500	-15.025	1.00	0.00
ATOM	1588	H8	LIG	94	19.997	17.045	-14.343	1.00	0.00
ATOM	1589	H9	LIG	94	20.366	17.533	-16.000	1.00	0.00

TER

ATOM	1590	S1	LIG	95	-18.275	0.134	15.963	1.00	0.00
ATOM	1591	O1	LIG	95	-14.035	1.345	17.257	1.00	0.00
ATOM	1592	O2	LIG	95	-19.487	0.475	14.915	1.00	0.00
ATOM	1593	O3	LIG	95	-17.391	-1.224	15.798	1.00	0.00
ATOM	1594	N1	LIG	95	-17.193	1.620	15.688	1.00	0.00
ATOM	1595	H1	LIG	95	-17.472	2.031	14.801	1.00	0.00
ATOM	1596	N2	LIG	95	-15.473	1.095	17.221	1.00	0.00
ATOM	1597	N3	LIG	95	-20.435	0.557	21.544	1.00	0.00

ATOM	1598	H10	LIG	95	-21.376	0.870	21.710	1.00	0.00
ATOM	1599	H11	LIG	95	-19.877	0.306	22.342	1.00	0.00
ATOM	1600	C1	LIG	95	-18.907	0.288	17.694	1.00	0.00
ATOM	1601	C2	LIG	95	-20.218	0.732	17.861	1.00	0.00
ATOM	1602	H2	LIG	95	-20.819	0.987	16.996	1.00	0.00
ATOM	1603	C3	LIG	95	-18.086	-0.072	18.762	1.00	0.00
ATOM	1604	H3	LIG	95	-17.064	-0.387	18.593	1.00	0.00
ATOM	1605	C4	LIG	95	-15.865	1.649	16.069	1.00	0.00
ATOM	1606	C5	LIG	95	-19.930	0.469	20.267	1.00	0.00
ATOM	1607	C6	LIG	95	-20.729	0.821	19.152	1.00	0.00
ATOM	1608	H4	LIG	95	-21.748	1.160	19.307	1.00	0.00
ATOM	1609	C7	LIG	95	-18.603	0.024	20.050	1.00	0.00
ATOM	1610	H5	LIG	95	-17.981	-0.244	20.898	1.00	0.00
ATOM	1611	C8	LIG	95	-14.781	2.264	15.353	1.00	0.00
ATOM	1612	H6	LIG	95	-14.837	2.771	14.403	1.00	0.00
ATOM	1613	C9	LIG	95	-13.677	2.058	16.127	1.00	0.00
ATOM	1614	C10	LIG	95	-12.241	2.417	15.989	1.00	0.00
ATOM	1615	H7	LIG	95	-12.074	2.967	15.059	1.00	0.00
ATOM	1616	H8	LIG	95	-11.911	3.040	16.828	1.00	0.00
ATOM	1617	H9	LIG	95	-11.615	1.518	15.981	1.00	0.00
TER									
ATOM	1618	S1	LIG	96	-3.597	6.733	-17.568	1.00	0.00

ATOM	1619	O1	LIG	96	-2.824	11.196	-16.785	1.00	0.00
ATOM	1620	O2	LIG	96	-3.772	5.274	-16.845	1.00	0.00
ATOM	1621	O3	LIG	96	-4.879	7.495	-18.225	1.00	0.00
ATOM	1622	N1	LIG	96	-2.954	7.722	-16.131	1.00	0.00
ATOM	1623	H1	LIG	96	-3.181	7.202	-15.287	1.00	0.00
ATOM	1624	N2	LIG	96	-2.705	9.806	-17.217	1.00	0.00
ATOM	1625	N3	LIG	96	0.870	6.339	-21.554	1.00	0.00
ATOM	1626	H10	LIG	96	1.415	5.498	-21.635	1.00	0.00
ATOM	1627	H11	LIG	96	1.091	7.103	-22.169	1.00	0.00
ATOM	1628	C1	LIG	96	-2.204	6.648	-18.781	1.00	0.00
ATOM	1629	C2	LIG	96	-1.481	5.457	-18.845	1.00	0.00
ATOM	1630	H2	LIG	96	-1.734	4.633	-18.188	1.00	0.00
ATOM	1631	C3	LIG	96	-1.942	7.739	-19.607	1.00	0.00
ATOM	1632	H3	LIG	96	-2.508	8.657	-19.509	1.00	0.00
ATOM	1633	C4	LIG	96	-2.980	9.103	-16.113	1.00	0.00
ATOM	1634	C5	LIG	96	-0.149	6.441	-20.634	1.00	0.00
ATOM	1635	C6	LIG	96	-0.452	5.356	-19.776	1.00	0.00
ATOM	1636	H4	LIG	96	0.121	4.437	-19.847	1.00	0.00
ATOM	1637	C7	LIG	96	-0.909	7.631	-20.532	1.00	0.00
ATOM	1638	H5	LIG	96	-0.680	8.470	-21.181	1.00	0.00
ATOM	1639	C8	LIG	96	-3.253	9.940	-14.977	1.00	0.00
ATOM	1640	H6	LIG	96	-3.503	9.618	-13.980	1.00	0.00

ATOM	1641	C9	LIG	96	-3.138	11.219	-15.438	1.00	0.00
ATOM	1642	C10	LIG	96	-3.293	12.558	-14.810	1.00	0.00
ATOM	1643	H7	LIG	96	-3.549	12.455	-13.753	1.00	0.00
ATOM	1644	H8	LIG	96	-2.366	13.137	-14.891	1.00	0.00
ATOM	1645	H9	LIG	96	-4.084	13.131	-15.307	1.00	0.00
TER									
ATOM	1646	S1	LIG	97	16.162	24.905	-12.239	1.00	0.00
ATOM	1647	O1	LIG	97	18.895	22.403	-9.520	1.00	0.00
ATOM	1648	O2	LIG	97	15.811	26.431	-12.718	1.00	0.00
ATOM	1649	O3	LIG	97	16.910	23.868	-13.249	1.00	0.00
ATOM	1650	N1	LIG	97	17.270	25.275	-10.793	1.00	0.00
ATOM	1651	H1	LIG	97	17.582	26.237	-10.896	1.00	0.00
ATOM	1652	N2	LIG	97	17.740	23.057	-10.129	1.00	0.00
ATOM	1653	N3	LIG	97	11.167	22.428	-10.023	1.00	0.00
ATOM	1654	H10	LIG	97	10.323	22.967	-9.928	1.00	0.00
ATOM	1655	H11	LIG	97	11.140	21.462	-9.747	1.00	0.00
ATOM	1656	C1	LIG	97	14.645	24.128	-11.523	1.00	0.00
ATOM	1657	C2	LIG	97	13.507	24.926	-11.412	1.00	0.00
ATOM	1658	H2	LIG	97	13.539	25.963	-11.724	1.00	0.00
ATOM	1659	C3	LIG	97	14.667	22.784	-11.154	1.00	0.00
ATOM	1660	H3	LIG	97	15.578	22.204	-11.230	1.00	0.00
ATOM	1661	C4	LIG	97	18.123	24.331	-10.254	1.00	0.00

ATOM	1662	C5	LIG	97	12.320	22.993	-10.520	1.00	0.00
ATOM	1663	C6	LIG	97	12.342	24.354	-10.910	1.00	0.00
ATOM	1664	H4	LIG	97	11.443	24.955	-10.819	1.00	0.00
ATOM	1665	C7	LIG	97	13.500	22.221	-10.649	1.00	0.00
ATOM	1666	H5	LIG	97	13.494	21.178	-10.348	1.00	0.00
ATOM	1667	C8	LIG	97	19.449	24.563	-9.750	1.00	0.00
ATOM	1668	H6	LIG	97	19.983	25.499	-9.739	1.00	0.00
ATOM	1669	C9	LIG	97	19.880	23.349	-9.301	1.00	0.00
ATOM	1670	C10	LIG	97	21.140	22.870	-8.674	1.00	0.00
ATOM	1671	H7	LIG	97	21.845	23.697	-8.559	1.00	0.00
ATOM	1672	H8	LIG	97	20.945	22.437	-7.687	1.00	0.00
ATOM	1673	H9	LIG	97	21.609	22.094	-9.288	1.00	0.00
TER									
ATOM	1674	S1	LIG	98	-2.702	-14.726	13.113	1.00	0.00
ATOM	1675	O1	LIG	98	-0.127	-11.220	14.596	1.00	0.00
ATOM	1676	O2	LIG	98	-2.938	-15.759	11.865	1.00	0.00
ATOM	1677	O3	LIG	98	-2.060	-15.251	14.516	1.00	0.00
ATOM	1678	N1	LIG	98	-1.540	-13.519	12.309	1.00	0.00
ATOM	1679	H1	LIG	98	-1.153	-13.979	11.490	1.00	0.00
ATOM	1680	N2	LIG	98	-1.237	-12.048	14.133	1.00	0.00
ATOM	1681	N3	LIG	98	-7.836	-11.794	14.132	1.00	0.00
ATOM	1682	H10	LIG	98	-8.631	-11.923	13.531	1.00	0.00

ATOM	1683	H11	LIG	98	-7.935	-11.167	14.912	1.00	0.00
ATOM	1684	C1	LIG	98	-4.262	-13.786	13.428	1.00	0.00
ATOM	1685	C2	LIG	98	-5.330	-14.004	12.559	1.00	0.00
ATOM	1686	H2	LIG	98	-5.220	-14.691	11.727	1.00	0.00
ATOM	1687	C3	LIG	98	-4.341	-12.929	14.525	1.00	0.00
ATOM	1688	H3	LIG	98	-3.481	-12.765	15.163	1.00	0.00
ATOM	1689	C4	LIG	98	-0.755	-12.648	13.041	1.00	0.00
ATOM	1690	C5	LIG	98	-6.651	-12.454	13.897	1.00	0.00
ATOM	1691	C6	LIG	98	-6.527	-13.337	12.796	1.00	0.00
ATOM	1692	H4	LIG	98	-7.372	-13.494	12.135	1.00	0.00
ATOM	1693	C7	LIG	98	-5.540	-12.262	14.754	1.00	0.00
ATOM	1694	H5	LIG	98	-5.624	-11.584	15.597	1.00	0.00
ATOM	1695	C8	LIG	98	0.595	-12.255	12.742	1.00	0.00
ATOM	1696	H6	LIG	98	1.203	-12.597	11.921	1.00	0.00
ATOM	1697	C9	LIG	98	0.935	-11.369	13.723	1.00	0.00
ATOM	1698	C10	LIG	98	2.165	-10.590	14.025	1.00	0.00
ATOM	1699	H7	LIG	98	2.937	-10.792	13.279	1.00	0.00
ATOM	1700	H8	LIG	98	1.956	-9.515	14.029	1.00	0.00
ATOM	1701	H9	LIG	98	2.557	-10.852	15.014	1.00	0.00
TER									
ATOM	1702	S1	LIG	99	-9.516	-22.562	-20.054	1.00	0.00
ATOM	1703	O1	LIG	99	-9.443	-18.646	-17.649	1.00	0.00

ATOM	1704	O2	LIG	99	-10.476	-23.561	-20.926	1.00	0.00
ATOM	1705	O3	LIG	99	-8.382	-21.649	-20.786	1.00	0.00
ATOM	1706	N1	LIG	99	-10.809	-21.460	-19.299	1.00	0.00
ATOM	1707	H1	LIG	99	-11.656	-21.574	-19.850	1.00	0.00
ATOM	1708	N2	LIG	99	-9.387	-20.050	-18.045	1.00	0.00
ATOM	1709	N3	LIG	99	-7.083	-25.724	-15.573	1.00	0.00
ATOM	1710	H10	LIG	99	-7.346	-26.682	-15.417	1.00	0.00
ATOM	1711	H11	LIG	99	-6.394	-25.320	-14.962	1.00	0.00
ATOM	1712	C1	LIG	99	-8.777	-23.505	-18.646	1.00	0.00
ATOM	1713	C2	LIG	99	-9.183	-24.828	-18.477	1.00	0.00
ATOM	1714	H2	LIG	99	-9.916	-25.260	-19.147	1.00	0.00
ATOM	1715	C3	LIG	99	-7.827	-22.894	-17.830	1.00	0.00
ATOM	1716	H3	LIG	99	-7.557	-21.855	-17.976	1.00	0.00
ATOM	1717	C4	LIG	99	-10.505	-20.226	-18.756	1.00	0.00
ATOM	1718	C5	LIG	99	-7.646	-24.989	-16.592	1.00	0.00
ATOM	1719	C6	LIG	99	-8.613	-25.570	-17.447	1.00	0.00
ATOM	1720	H4	LIG	99	-8.910	-26.603	-17.299	1.00	0.00
ATOM	1721	C7	LIG	99	-7.265	-23.641	-16.800	1.00	0.00
ATOM	1722	H5	LIG	99	-6.529	-23.185	-16.146	1.00	0.00
ATOM	1723	C8	LIG	99	-11.304	-19.034	-18.838	1.00	0.00
ATOM	1724	H6	LIG	99	-12.243	-18.918	-19.353	1.00	0.00
ATOM	1725	C9	LIG	99	-10.613	-18.091	-18.135	1.00	0.00



ATOM	1726	C10	LIG	99	-10.854	-16.658	-17.823	1.00	0.00
ATOM	1727	H7	LIG	99	-11.798	-16.326	-18.263	1.00	0.00
ATOM	1728	H8	LIG	99	-10.897	-16.495	-16.740	1.00	0.00
ATOM	1729	H9	LIG	99	-10.046	-16.033	-18.217	1.00	0.00
TER									
ATOM	1730	S1	LIG	100	12.376	20.911	6.837	1.00	0.00
ATOM	1731	O1	LIG	100	13.939	24.578	9.125	1.00	0.00
ATOM	1732	O2	LIG	100	12.829	19.523	6.095	1.00	0.00
ATOM	1733	O3	LIG	100	11.590	20.872	8.264	1.00	0.00
ATOM	1734	N1	LIG	100	14.041	21.704	7.065	1.00	0.00
ATOM	1735	H1	LIG	100	14.737	20.969	6.967	1.00	0.00
ATOM	1736	N2	LIG	100	13.343	23.698	8.123	1.00	0.00
ATOM	1737	N3	LIG	100	9.368	24.271	2.881	1.00	0.00
ATOM	1738	H10	LIG	100	9.278	23.982	1.922	1.00	0.00
ATOM	1739	H11	LIG	100	8.928	25.133	3.154	1.00	0.00
ATOM	1740	C1	LIG	100	11.473	21.980	5.630	1.00	0.00
ATOM	1741	C2	LIG	100	11.385	21.528	4.313	1.00	0.00
ATOM	1742	H2	LIG	100	11.850	20.592	4.029	1.00	0.00
ATOM	1743	C3	LIG	100	10.884	23.166	6.065	1.00	0.00
ATOM	1744	H3	LIG	100	10.998	23.497	7.090	1.00	0.00
ATOM	1745	C4	LIG	100	14.254	22.733	7.963	1.00	0.00
ATOM	1746	C5	LIG	100	10.066	23.511	3.791	1.00	0.00

ATOM	1747	C6	LIG	100	10.678	22.297	3.394	1.00	0.00
ATOM	1748	H4	LIG	100	10.593	21.963	2.365	1.00	0.00
ATOM	1749	C7	LIG	100	10.183	23.931	5.139	1.00	0.00
ATOM	1750	H5	LIG	100	9.722	24.863	5.452	1.00	0.00
ATOM	1751	C8	LIG	100	15.420	22.930	8.780	1.00	0.00
ATOM	1752	H6	LIG	100	16.288	22.294	8.834	1.00	0.00
ATOM	1753	C9	LIG	100	15.182	24.082	9.472	1.00	0.00
ATOM	1754	C10	LIG	100	15.953	24.854	10.482	1.00	0.00
ATOM	1755	H7	LIG	100	16.910	24.367	10.684	1.00	0.00
ATOM	1756	H8	LIG	100	16.147	25.873	10.131	1.00	0.00
ATOM	1757	H9	LIG	100	15.394	24.930	11.421	1.00	0.00
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