

## Supporting Information

# Discovery and preliminary structure-activity investigation of 3-substituted-1*H*-imidazol-5-yl-1*H*-indoles with *in vitro* activity towards methicillin-resistant *Staphylococcus aureus*

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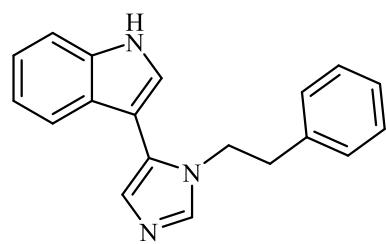
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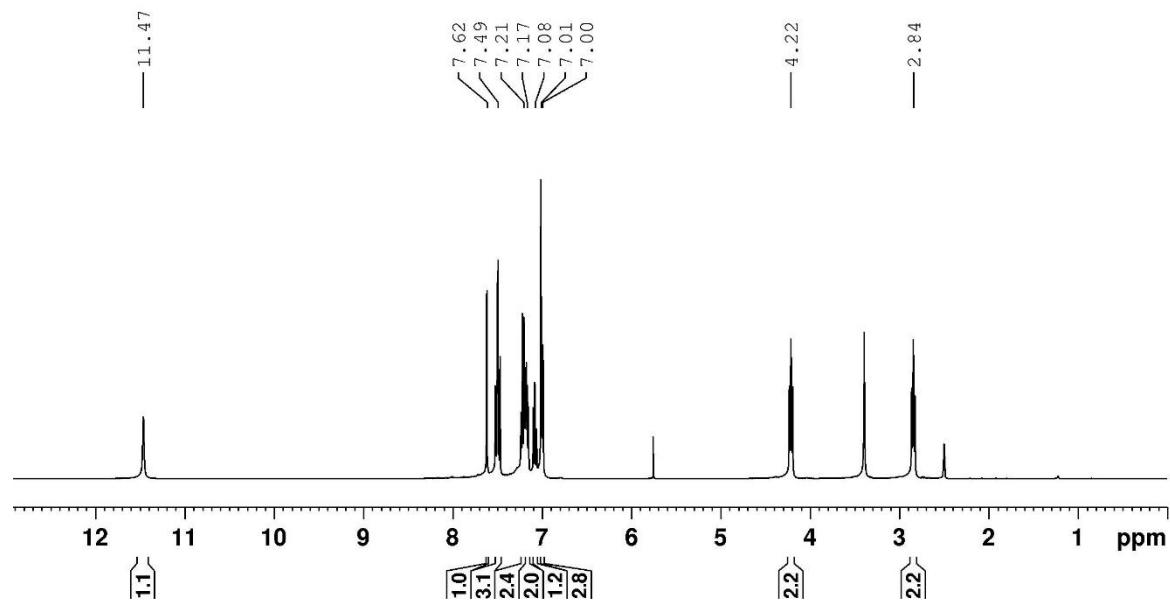
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<i>Figure S112.</i> 3-((5-(4-Methoxyphenyl)-1 <i>H</i> -imidazol-1-yl)methyl)-1 <i>H</i> -indole ( <b>112</b> )	S115
<i>Figure S113.</i> 3-(2-(5-Phenyl-1 <i>H</i> -imidazol-1-yl)ethyl)-1 <i>H</i> -indole ( <b>113</b> )	S116
<i>Figure S114.</i> 3-(2-(5-(4-Methoxyphenyl)-1 <i>H</i> -imidazol-1-yl)ethyl)-1 <i>H</i> -indole ( <b>114</b> )	S117
<i>Figure S115.</i> 1-Pentyl-5-phenyl-1 <i>H</i> -imidazole ( <b>115</b> )	S118
<i>Figure S116.</i> 5-(4-Methoxyphenyl)-1-pentyl-1 <i>H</i> -imidazole ( <b>116</b> )	S119

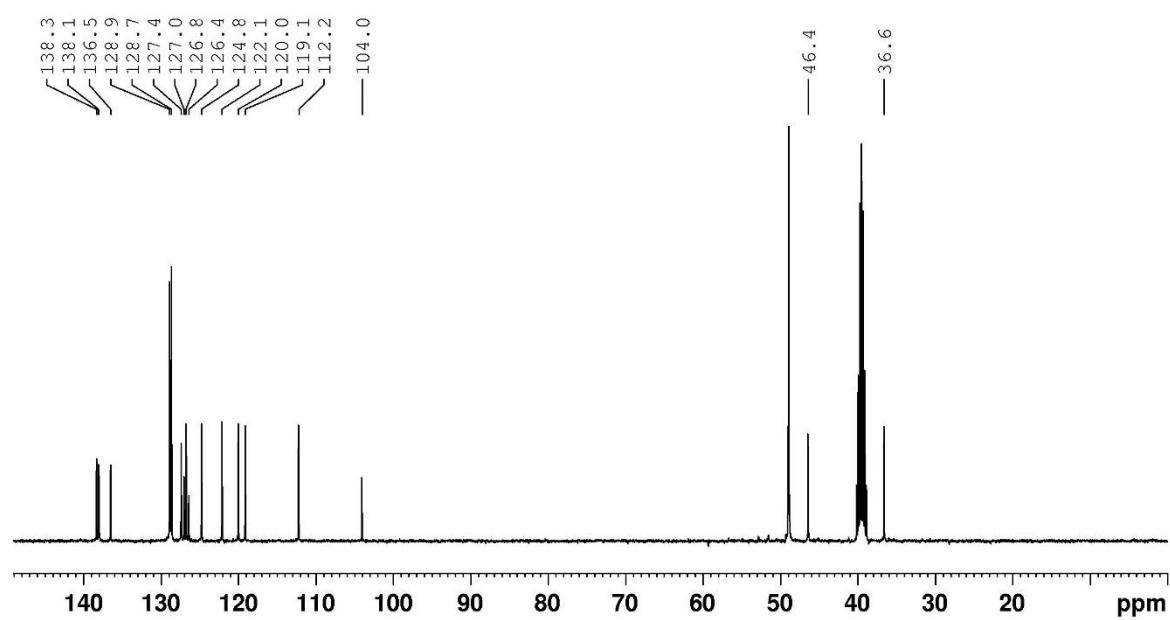
*Figure S1.* 3-(1-Phenethyl-1*H*-imidazol-5-yl)-1*H*-indole (**1**)



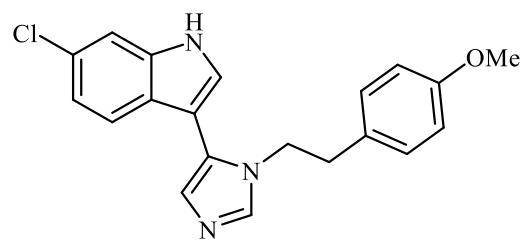
<sup>1</sup>H NMR (DMSO-*d*<sub>6</sub>, 400 MHz):



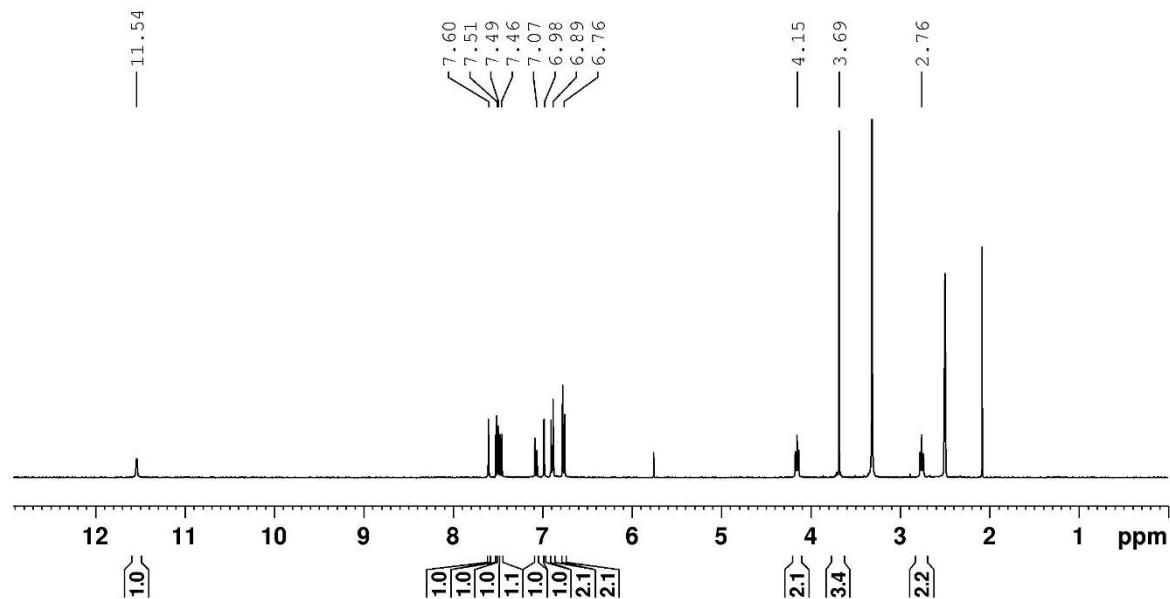
<sup>13</sup>C NMR (DMSO-*d*<sub>6</sub>, 100 MHz):



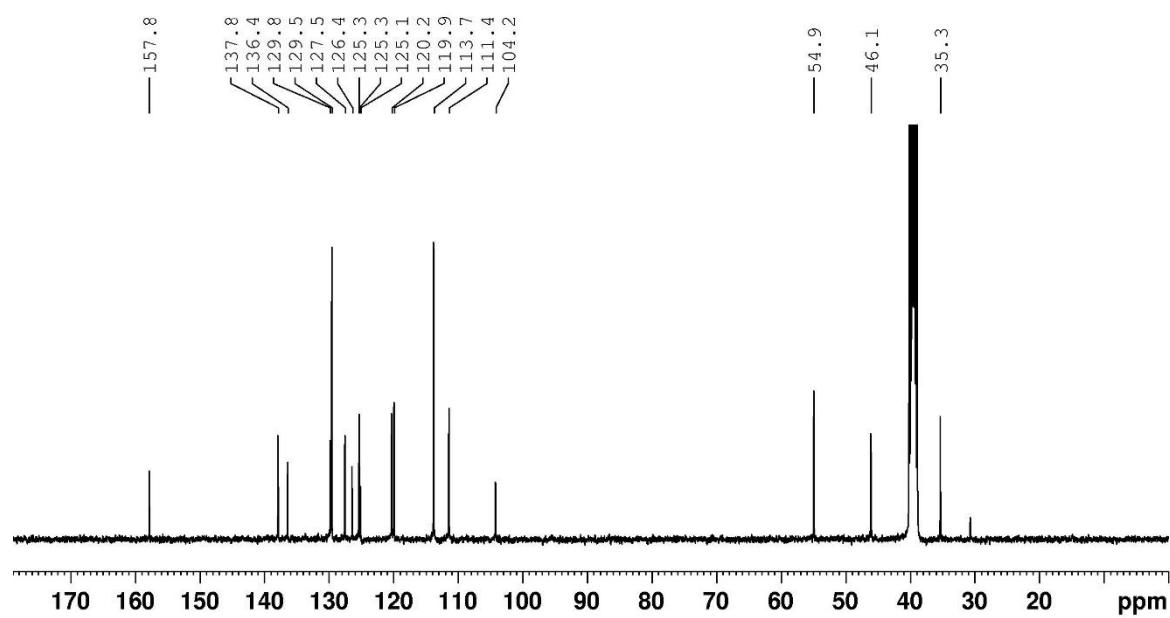
**Figure S2.** 6-Chloro-3-(1-(4-methoxyphenethyl)-1*H*-imidazol-5-yl)-1*H*-indole (**2**)



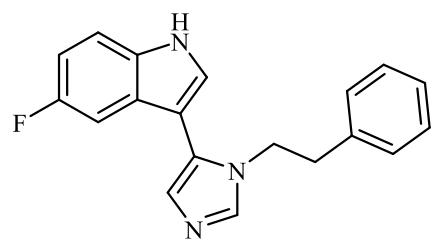
<sup>1</sup>H NMR (DMSO-*d*<sub>6</sub>, 400 MHz):



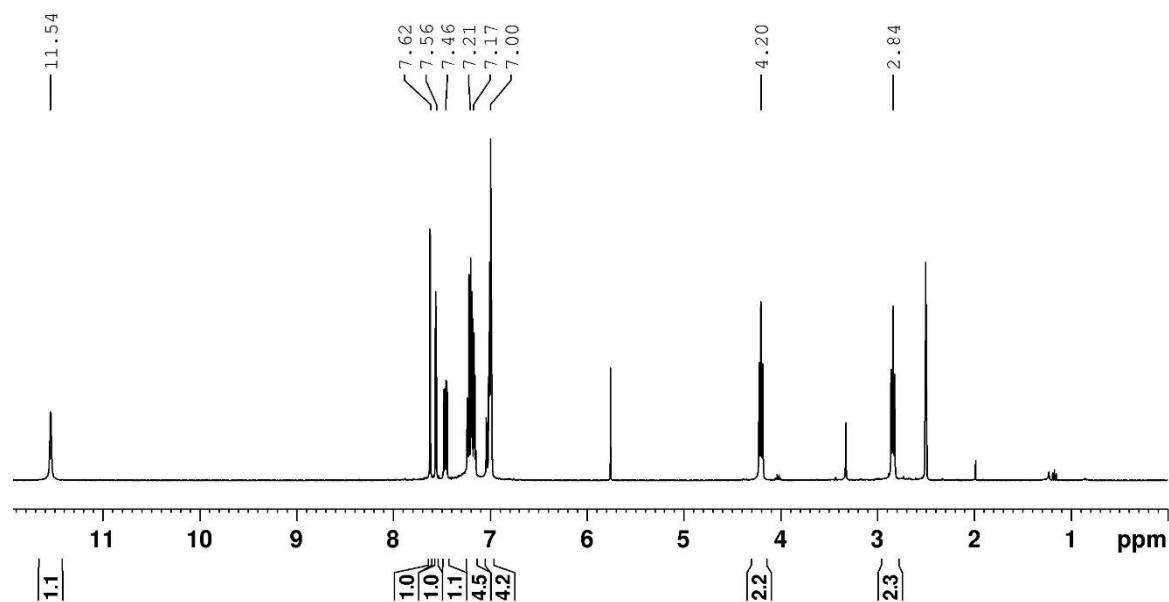
<sup>13</sup>C NMR (DMSO-*d*<sub>6</sub>, 100 MHz):



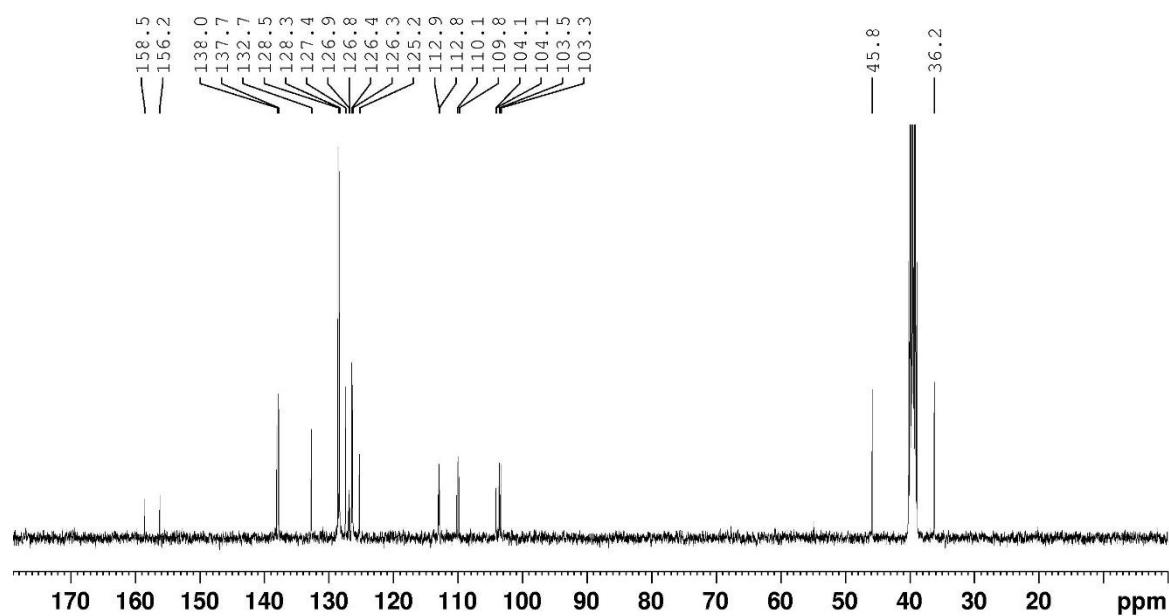
**Figure S3.** 5-Fluoro-3-(1-phenethyl-1*H*-imidazol-5-yl)-1*H*-indole (**3**)



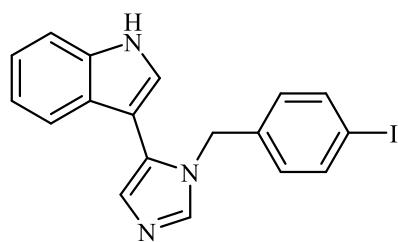
<sup>1</sup>H NMR (DMSO-*d*<sub>6</sub>, 400 MHz):



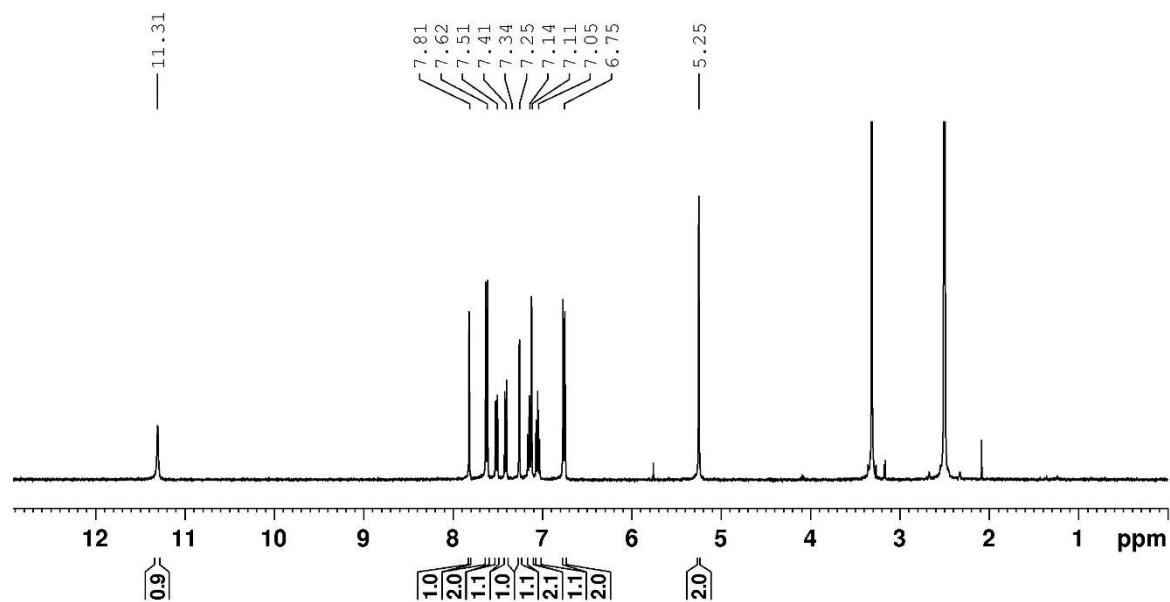
<sup>13</sup>C NMR (DMSO-*d*<sub>6</sub>, 100 MHz):



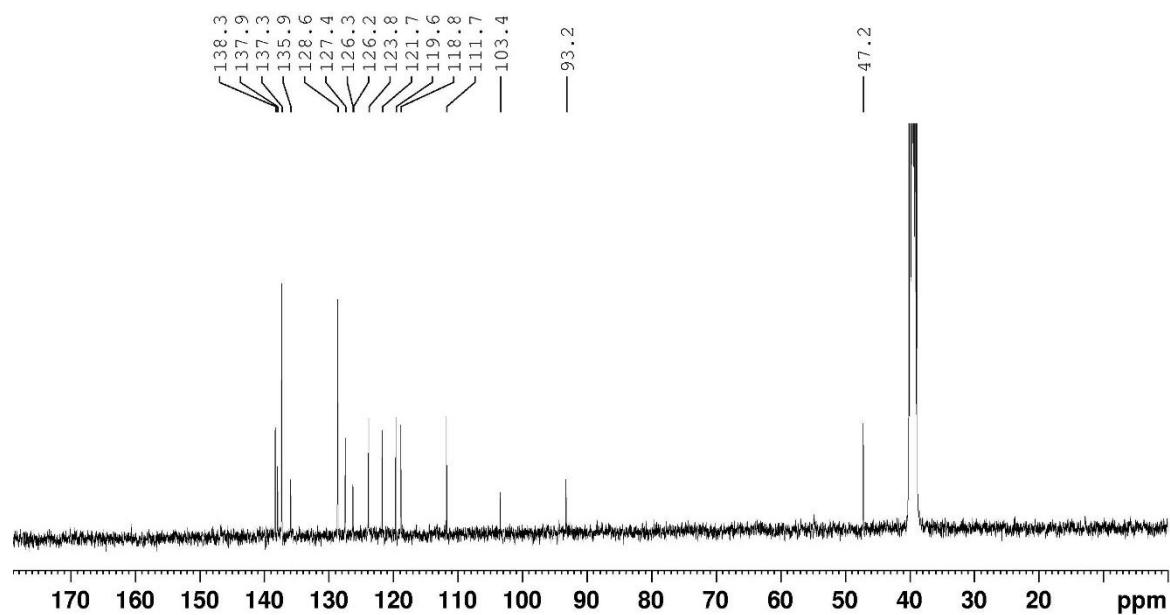
*Figure S4.* 3-(1-(4-Iodobenzyl)-1*H*-imidazol-5-yl)-1*H*-indole (**4**)



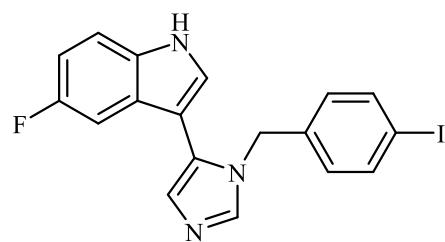
<sup>1</sup>H NMR (DMSO-*d*<sub>6</sub>, 400 MHz):



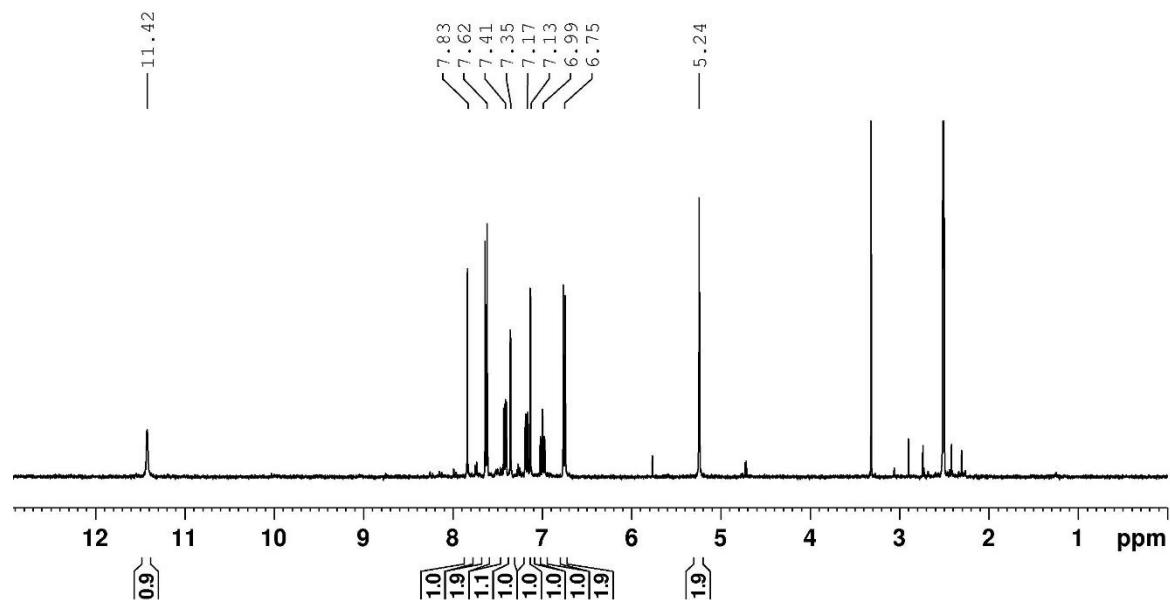
<sup>13</sup>C NMR (DMSO-*d*<sub>6</sub>, 100 MHz):



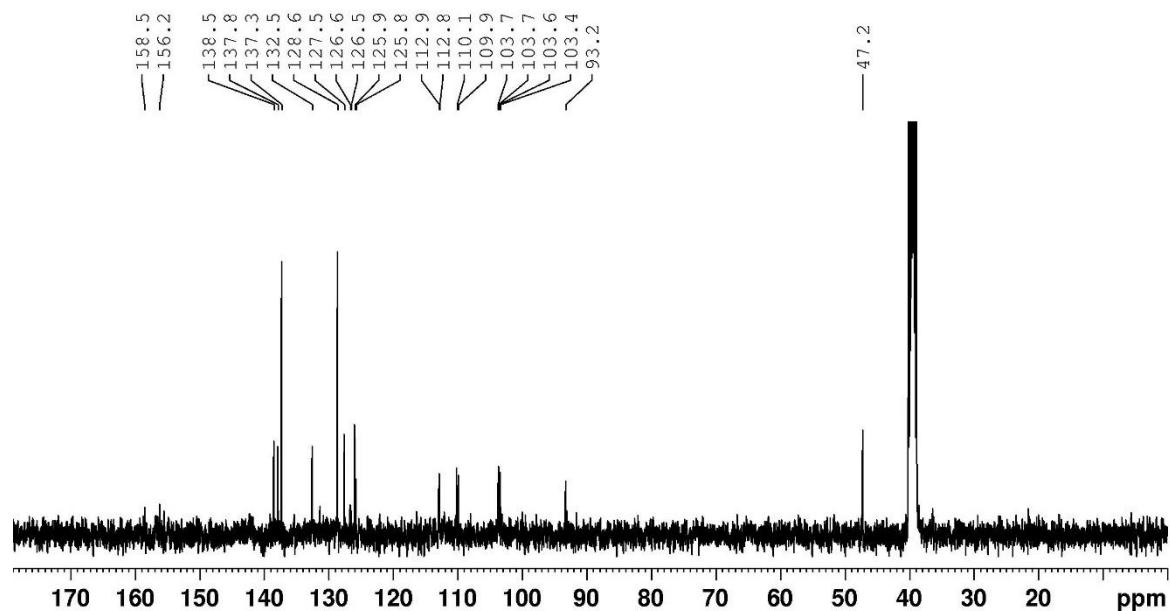
*Figure S5.* 5-Fluoro-3-(1-(4-iodobenzyl)-1*H*-imidazol-5-yl)-1*H*-indole (**5**)



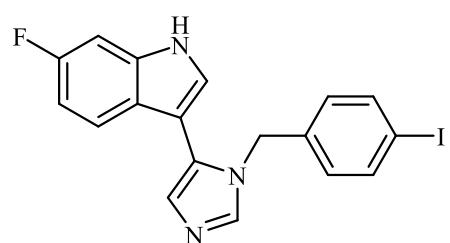
<sup>1</sup>H NMR (DMSO-*d*<sub>6</sub>, 400 MHz):



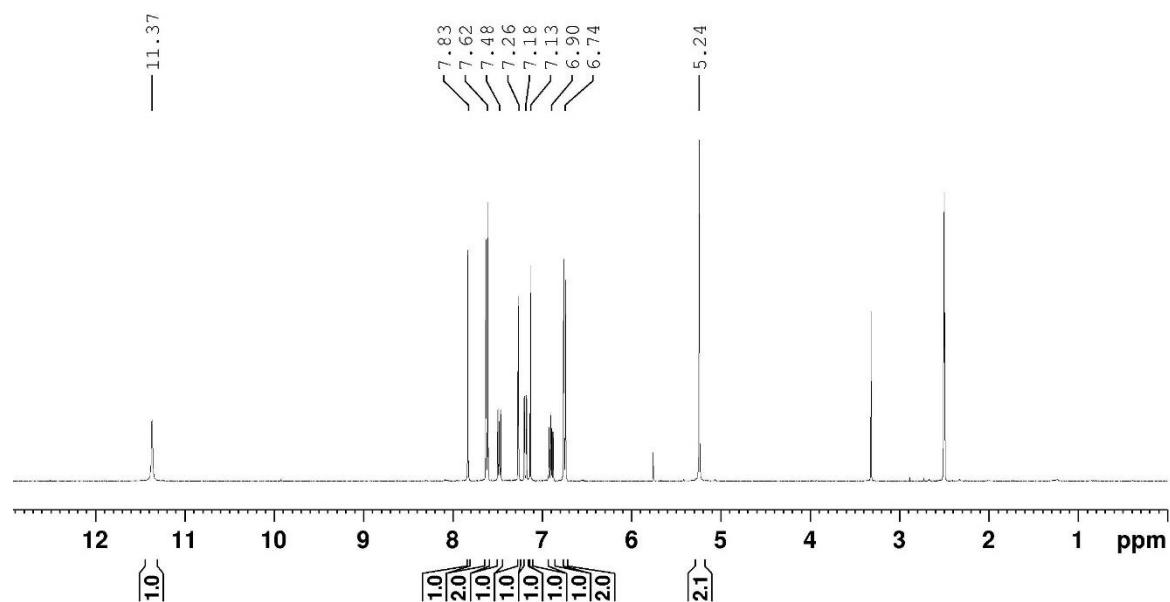
<sup>13</sup>C NMR (DMSO-*d*<sub>6</sub>, 100 MHz):



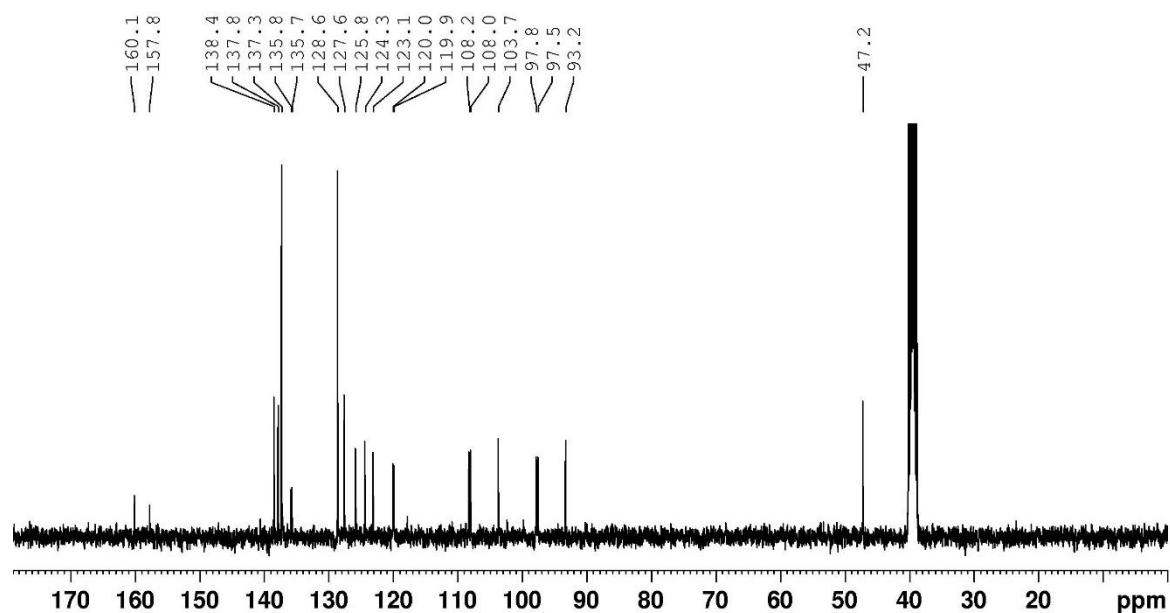
**Figure S6.** 6-Fluoro-3-(1-(4-iodobenzyl)-1*H*-imidazol-5-yl)-1*H*-indole (**6**)



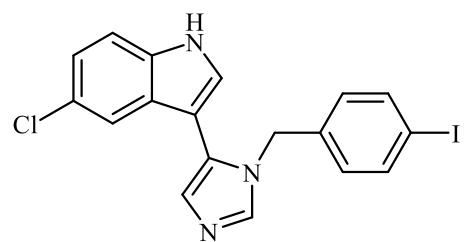
<sup>1</sup>H NMR (DMSO-*d*<sub>6</sub>, 400 MHz):



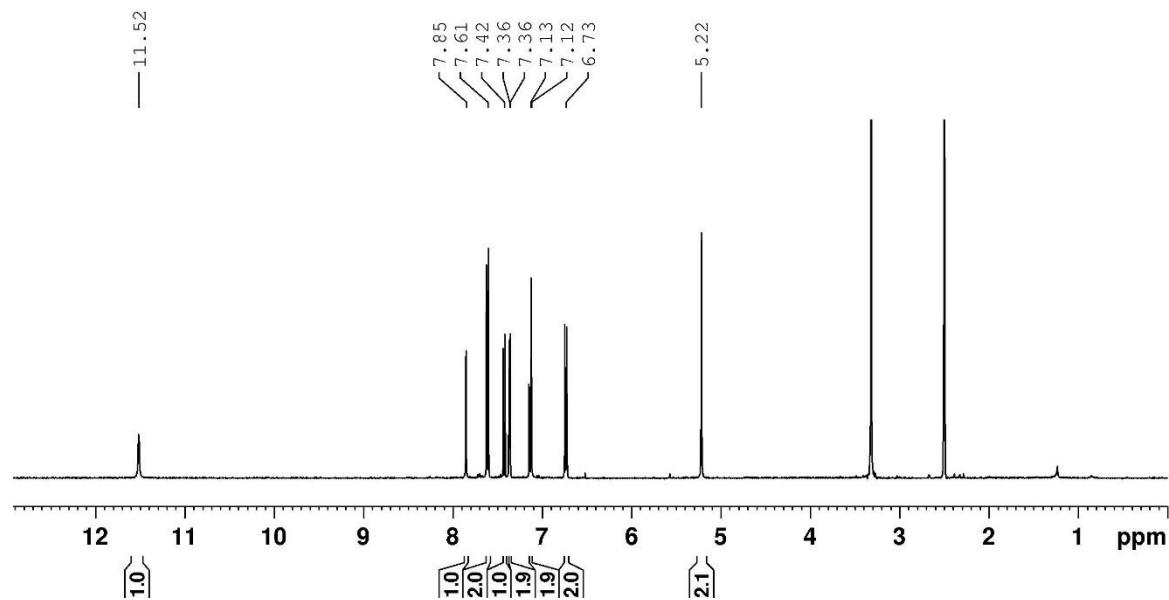
<sup>13</sup>C NMR (DMSO-*d*<sub>6</sub>, 100 MHz):



*Figure S7.* 5-Chloro-3-(1-(4-iodobenzyl)-1*H*-imidazol-5-yl)-1*H*-indole (**7**)



<sup>1</sup>H NMR (DMSO-*d*<sub>6</sub>, 400 MHz):



<sup>13</sup>C NMR (DMSO-*d*<sub>6</sub>, 100 MHz):

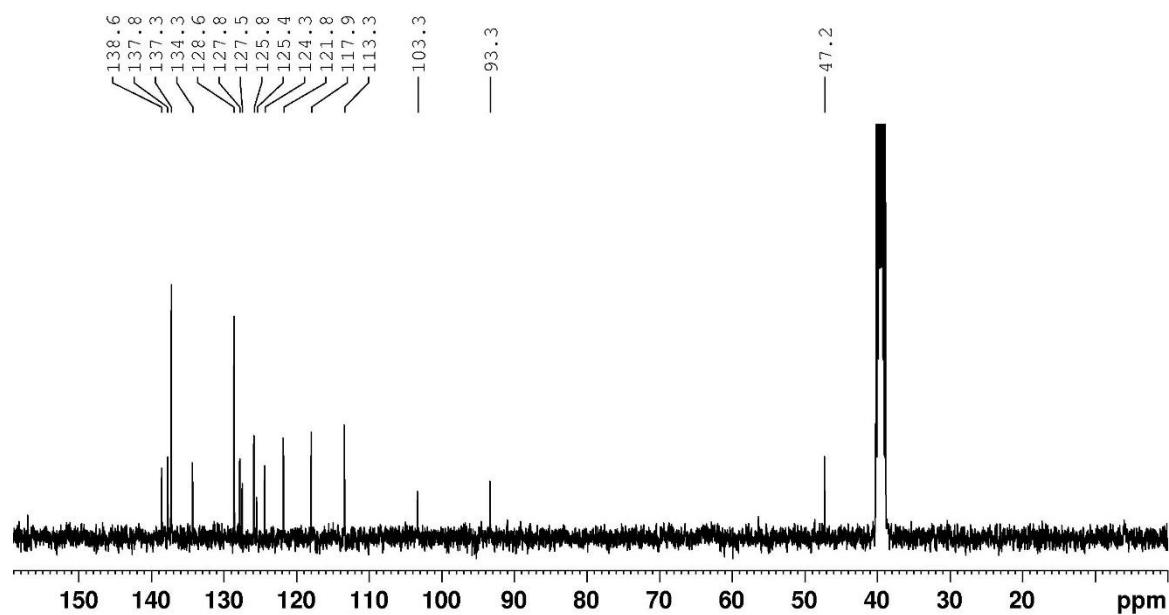
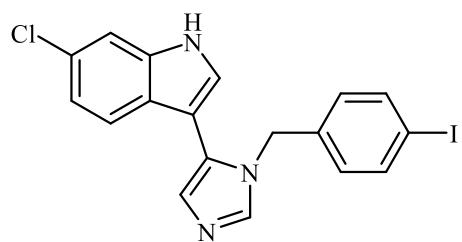
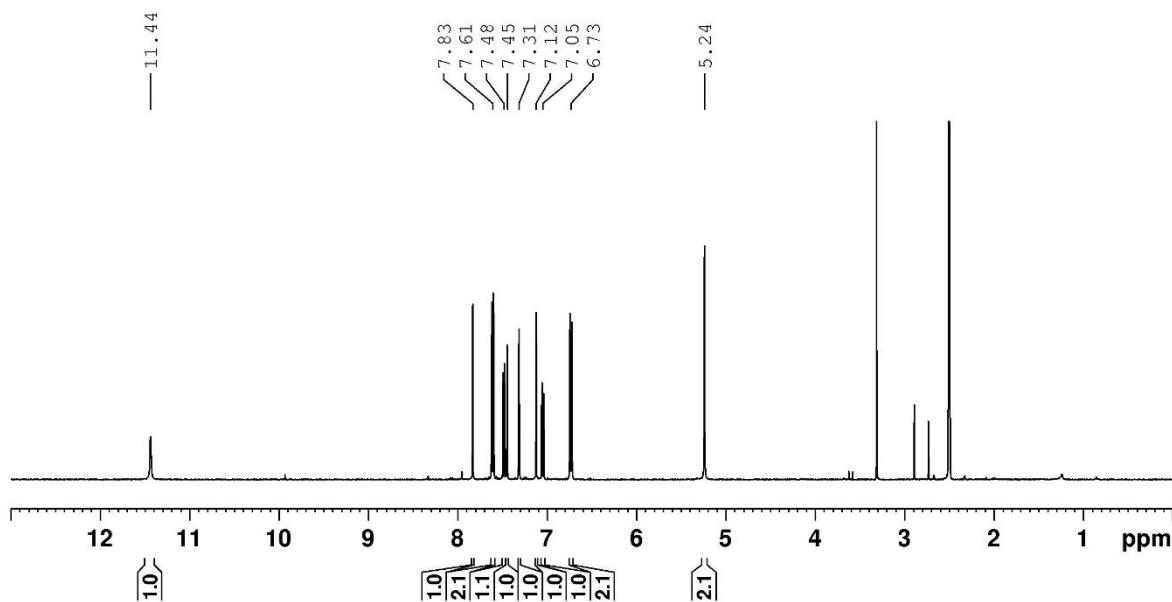


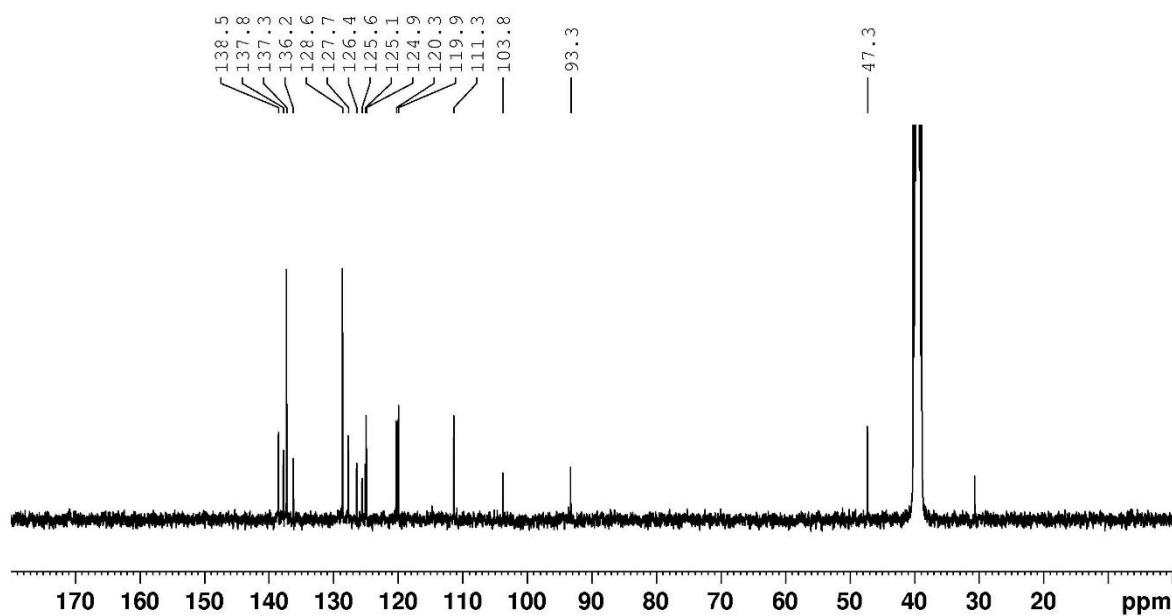
Figure S8. 6-Chloro-3-(1-(4-iodobenzyl)-1*H*-imidazol-5-yl)-1*H*-indole (**8**)



<sup>1</sup>H NMR (DMSO-*d*<sub>6</sub>, 400 MHz):



<sup>13</sup>C NMR (DMSO-*d*<sub>6</sub>, 100 MHz):



**Figure S9.** 5-Bromo-3-(1-(4-iodobenzyl)-1*H*-imidazol-5-yl)-1*H*-indole (**9**)

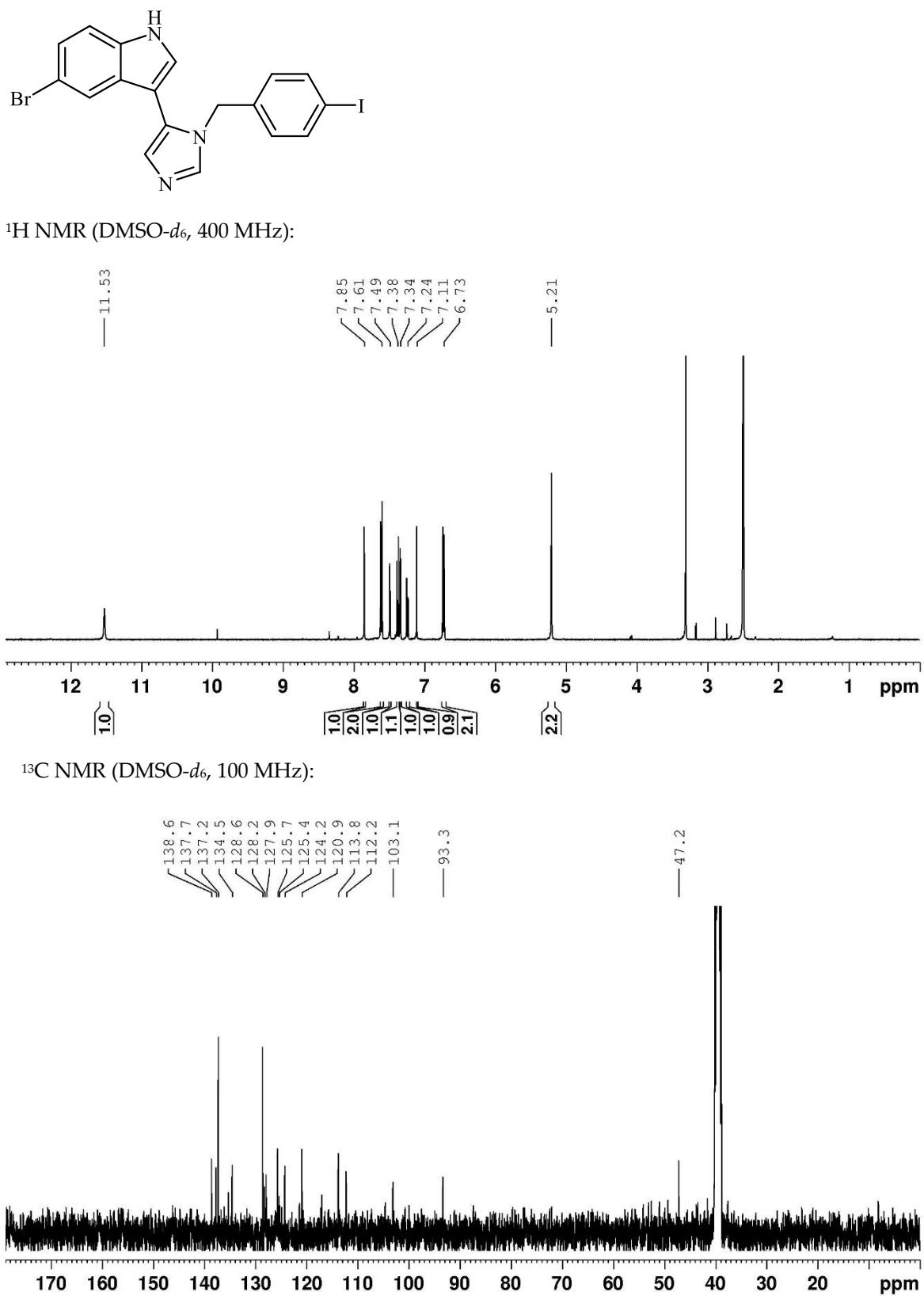
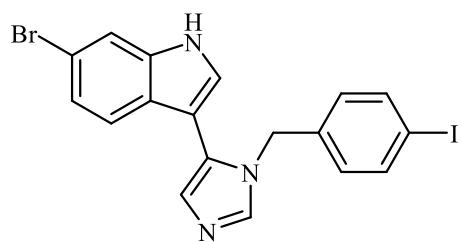
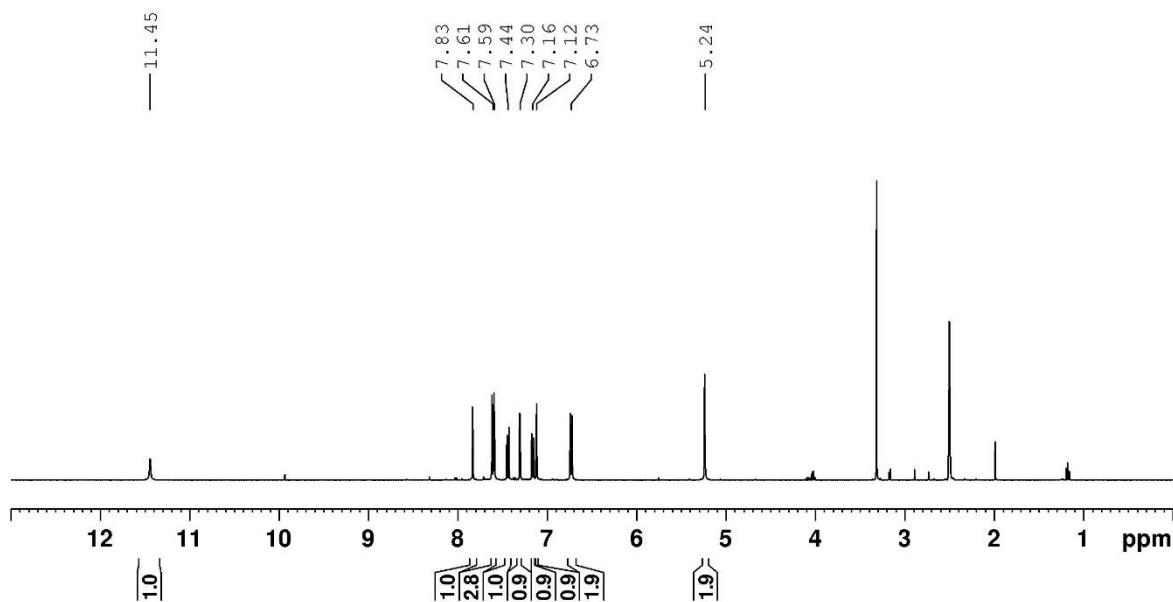


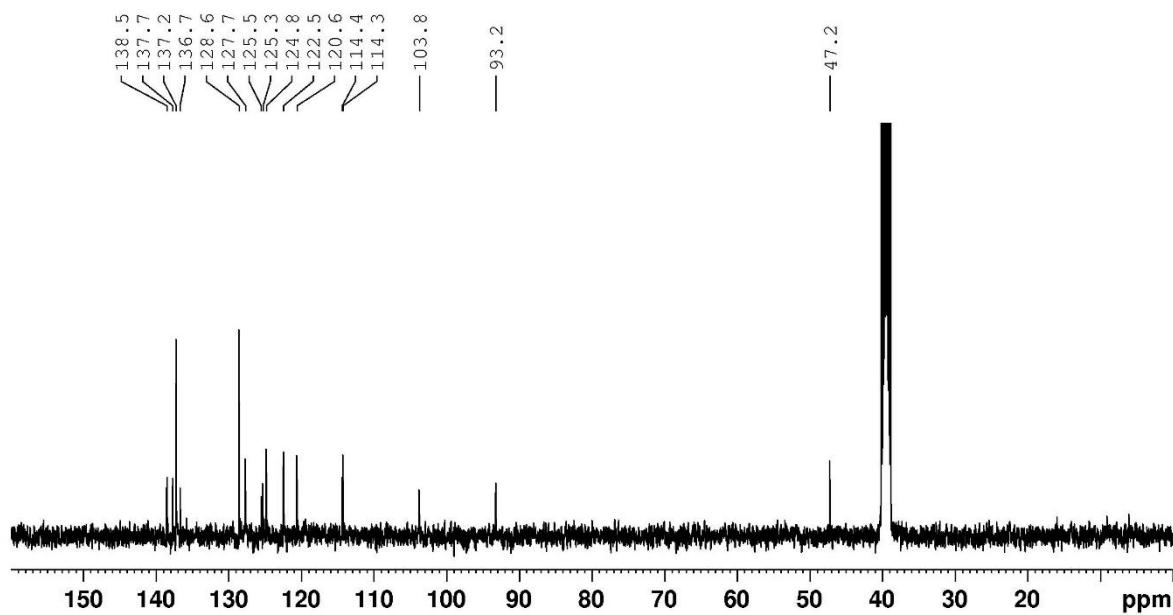
Figure S10. 6-Bromo-3-(1-(4-iodobenzyl)-1*H*-imidazol-5-yl)-1*H*-indole (**10**)



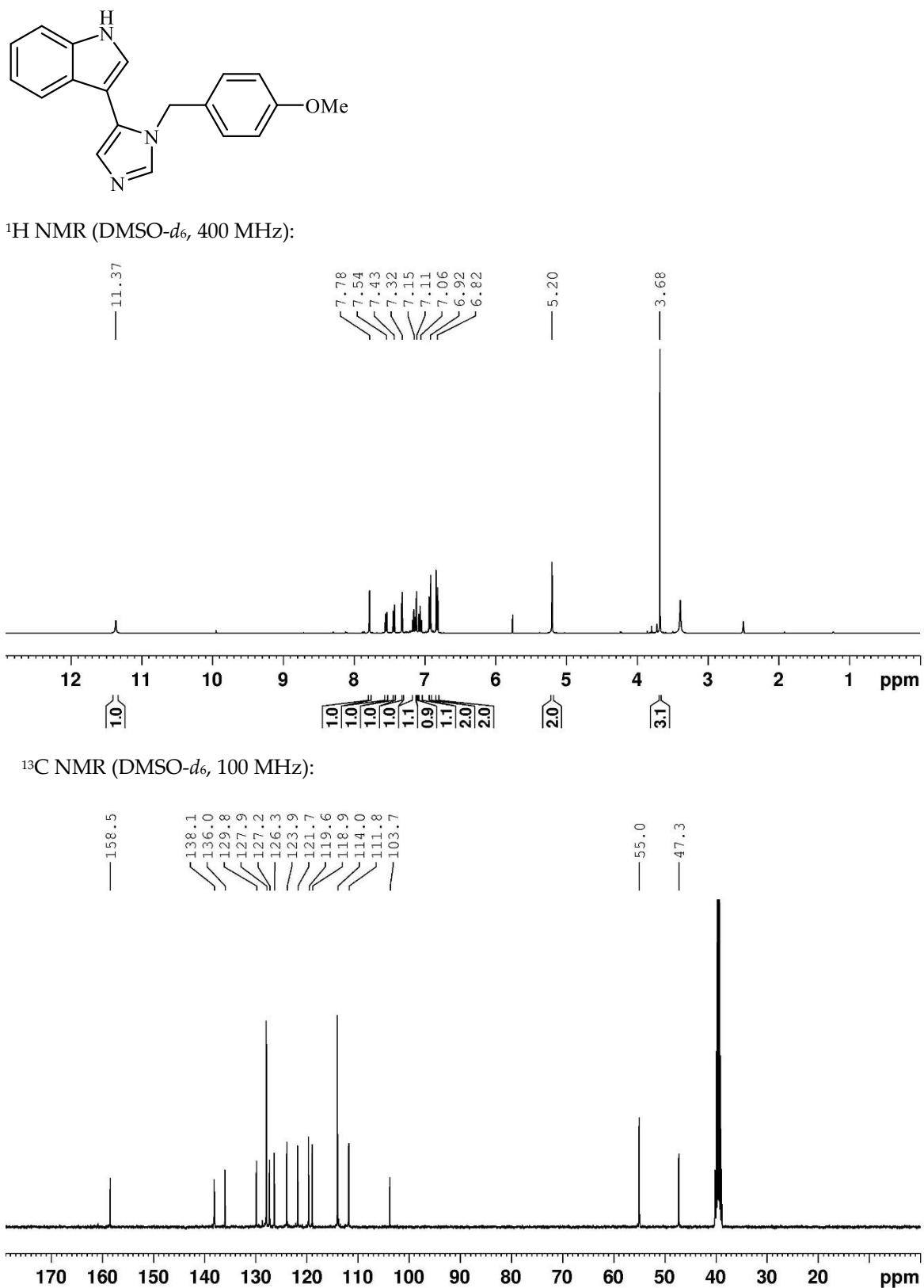
<sup>1</sup>H NMR (DMSO-*d*<sub>6</sub>, 400 MHz):



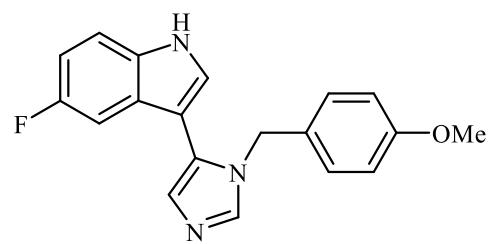
<sup>13</sup>C NMR (DMSO-*d*<sub>6</sub>, 100 MHz):



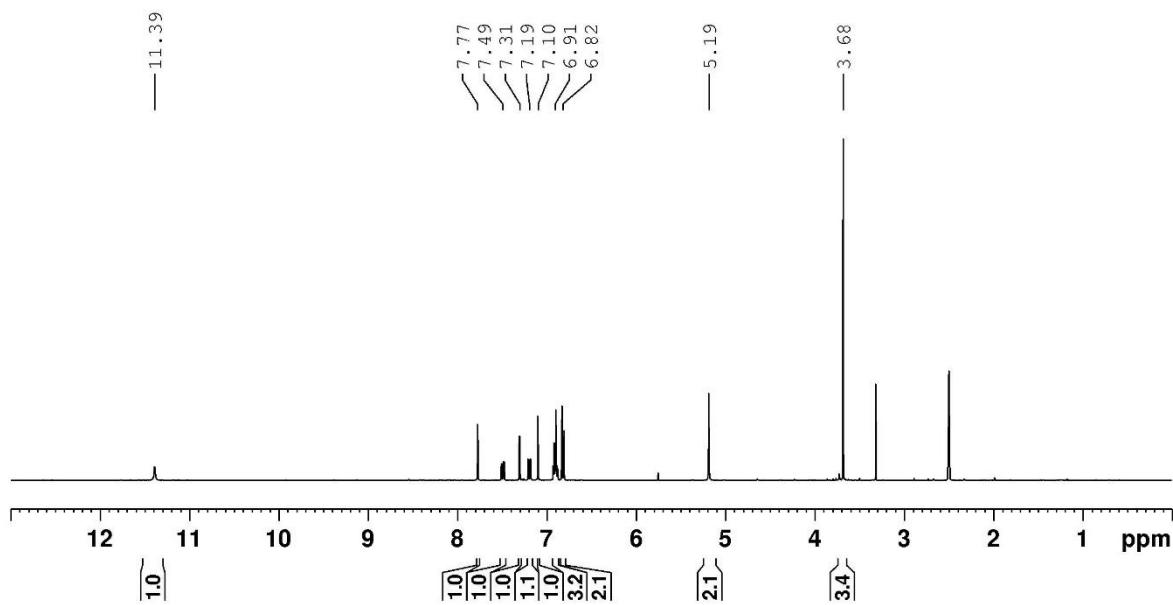
**Figure S11.** 3-(1-(4-Methoxybenzyl)-1*H*-imidazol-5-yl)-1*H*-indole (**11**)



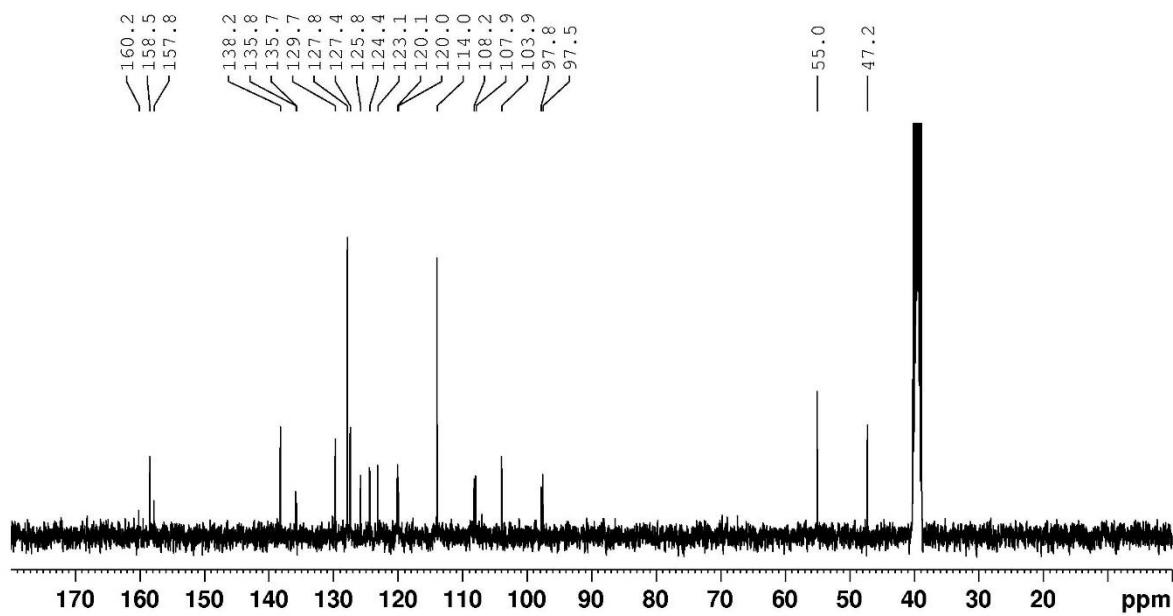
**Figure S12.** 5-Fluoro-3-(1-(4-methoxybenzyl)-1*H*-imidazol-5-yl)-1*H*-indole (**12**)



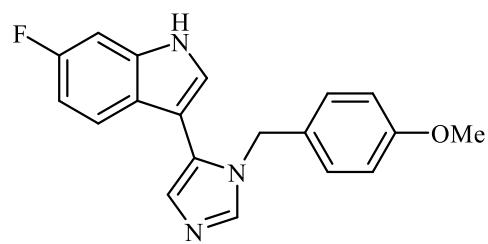
<sup>1</sup>H NMR (DMSO-*d*<sub>6</sub>, 400 MHz):



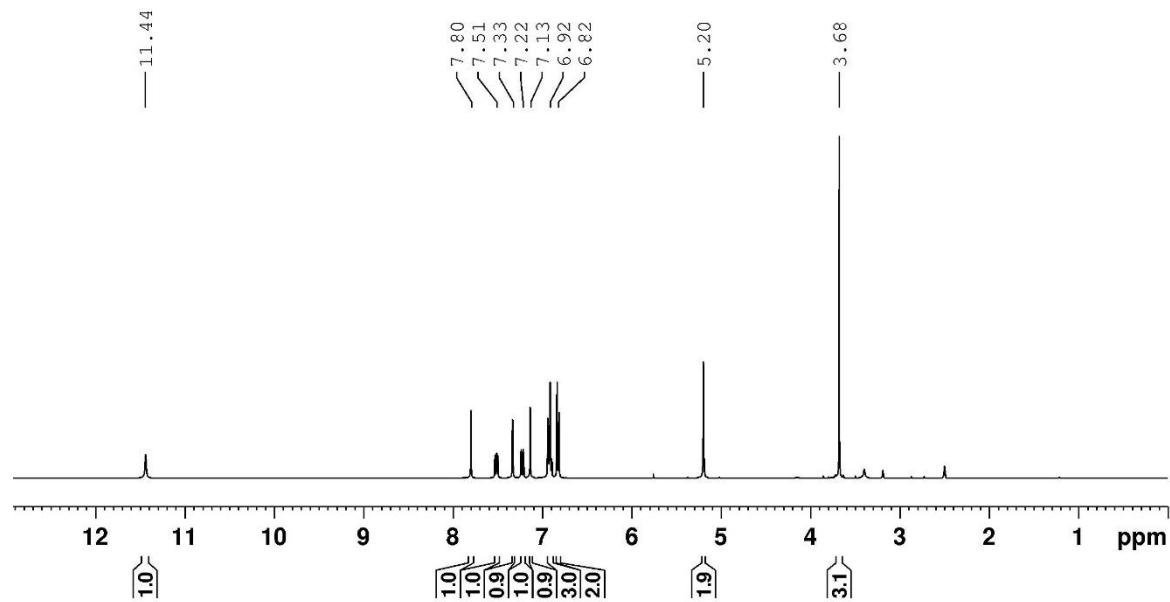
<sup>13</sup>C NMR (DMSO-*d*<sub>6</sub>, 100 MHz):



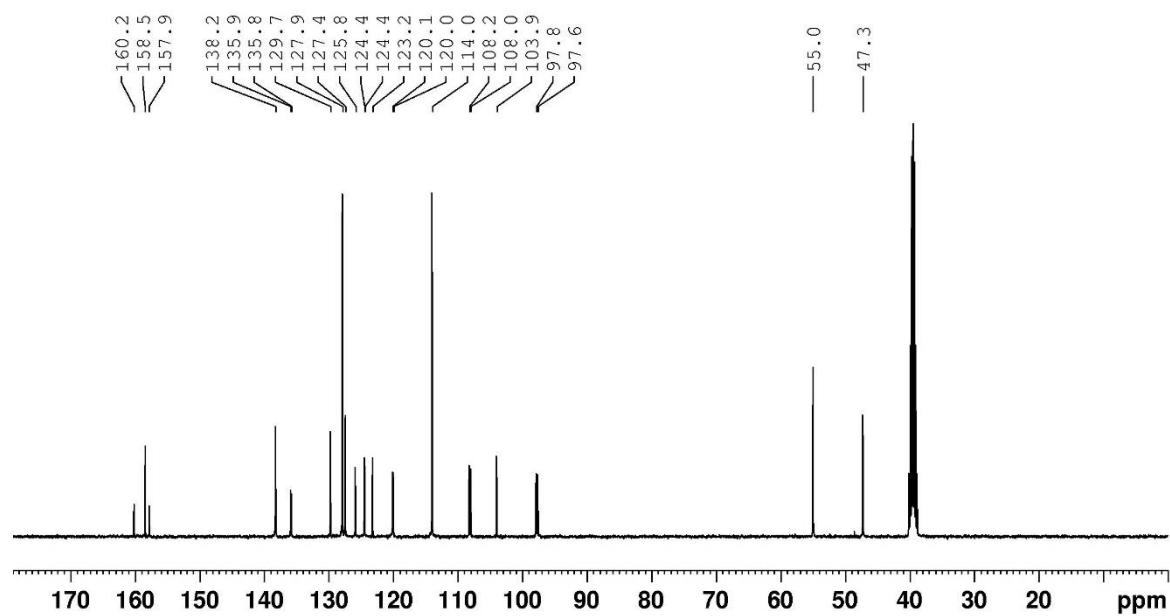
*Figure S13.* 6-Fluoro-3-(1-(4-methoxybenzyl)-1*H*-imidazol-5-yl)-1*H*-indole (**13**)



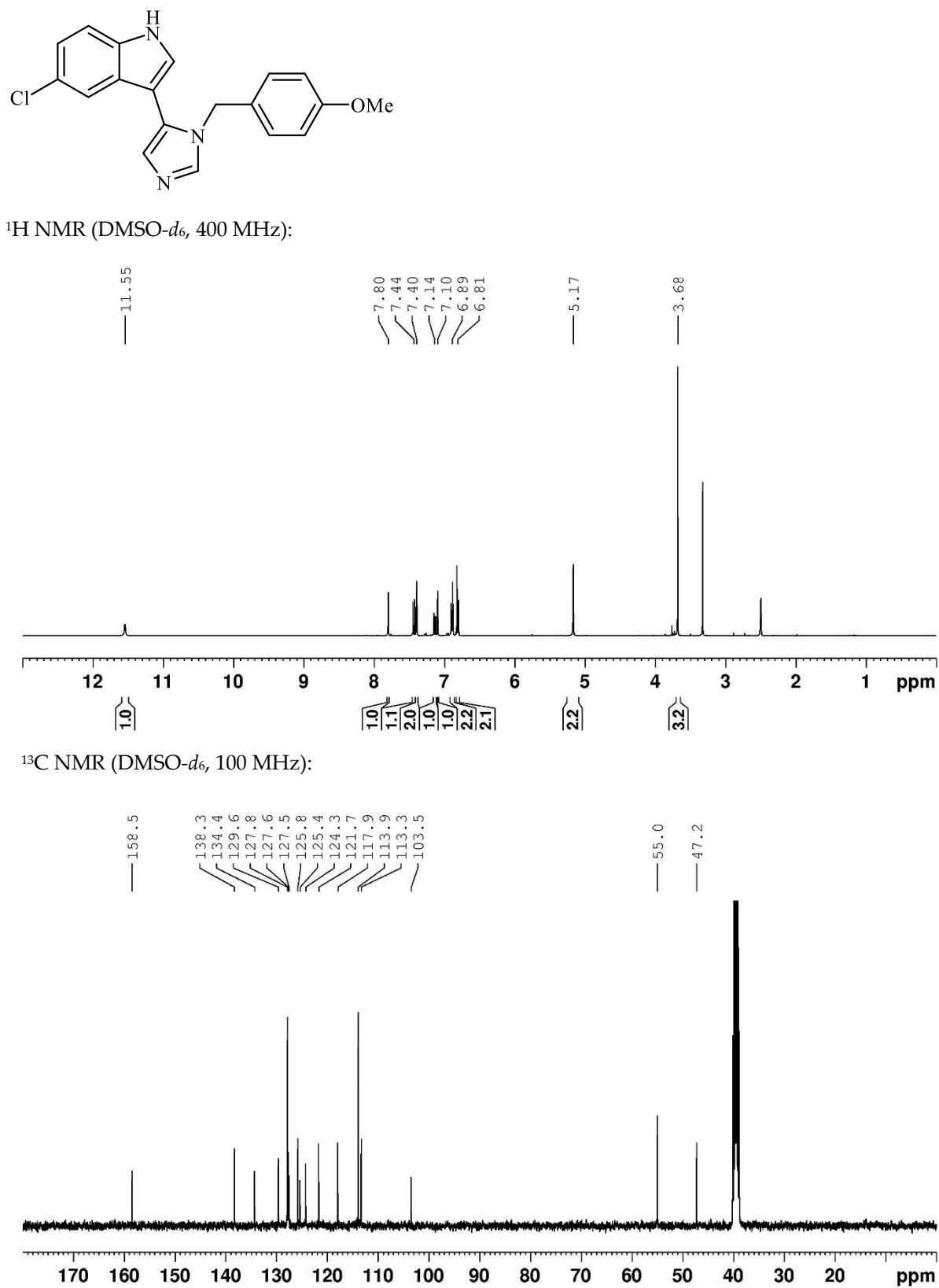
<sup>1</sup>H NMR (DMSO-*d*<sub>6</sub>, 400 MHz):



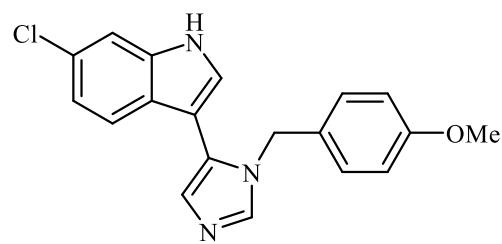
<sup>13</sup>C NMR (DMSO-*d*<sub>6</sub>, 100 MHz):



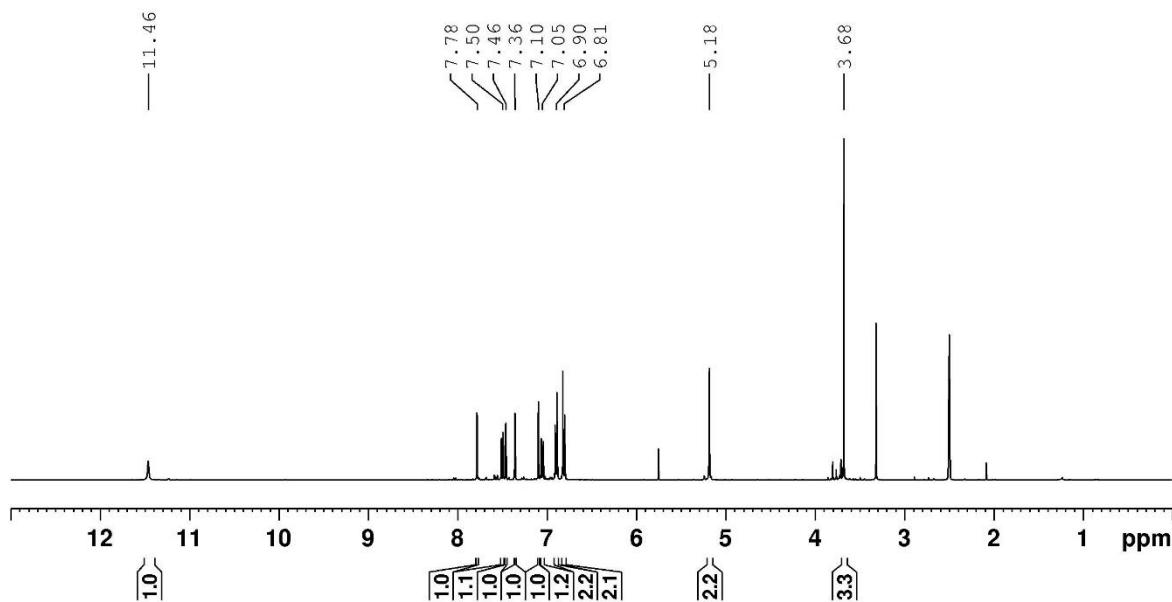
**Figure S14.** 5-Chloro-3-(1-(4-methoxybenzyl)-1*H*-imidazol-5-yl)-1*H*-indole (**14**)



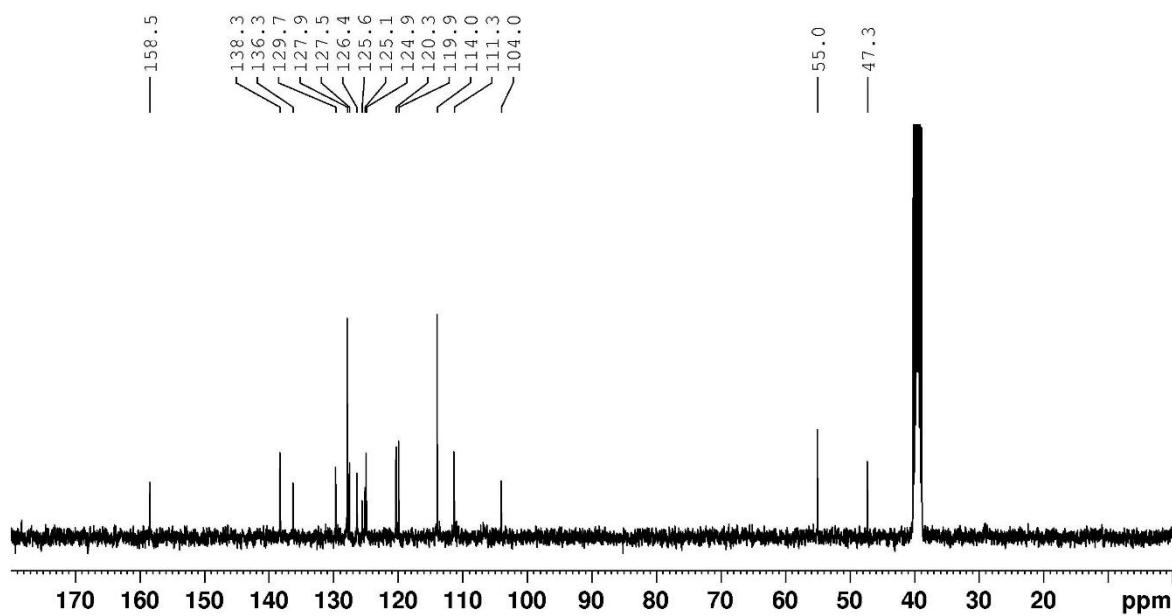
**Figure S15.** 6-Chloro-3-(1-(4-methoxybenzyl)-1*H*-imidazol-5-yl)-1*H*-indole (**15**)



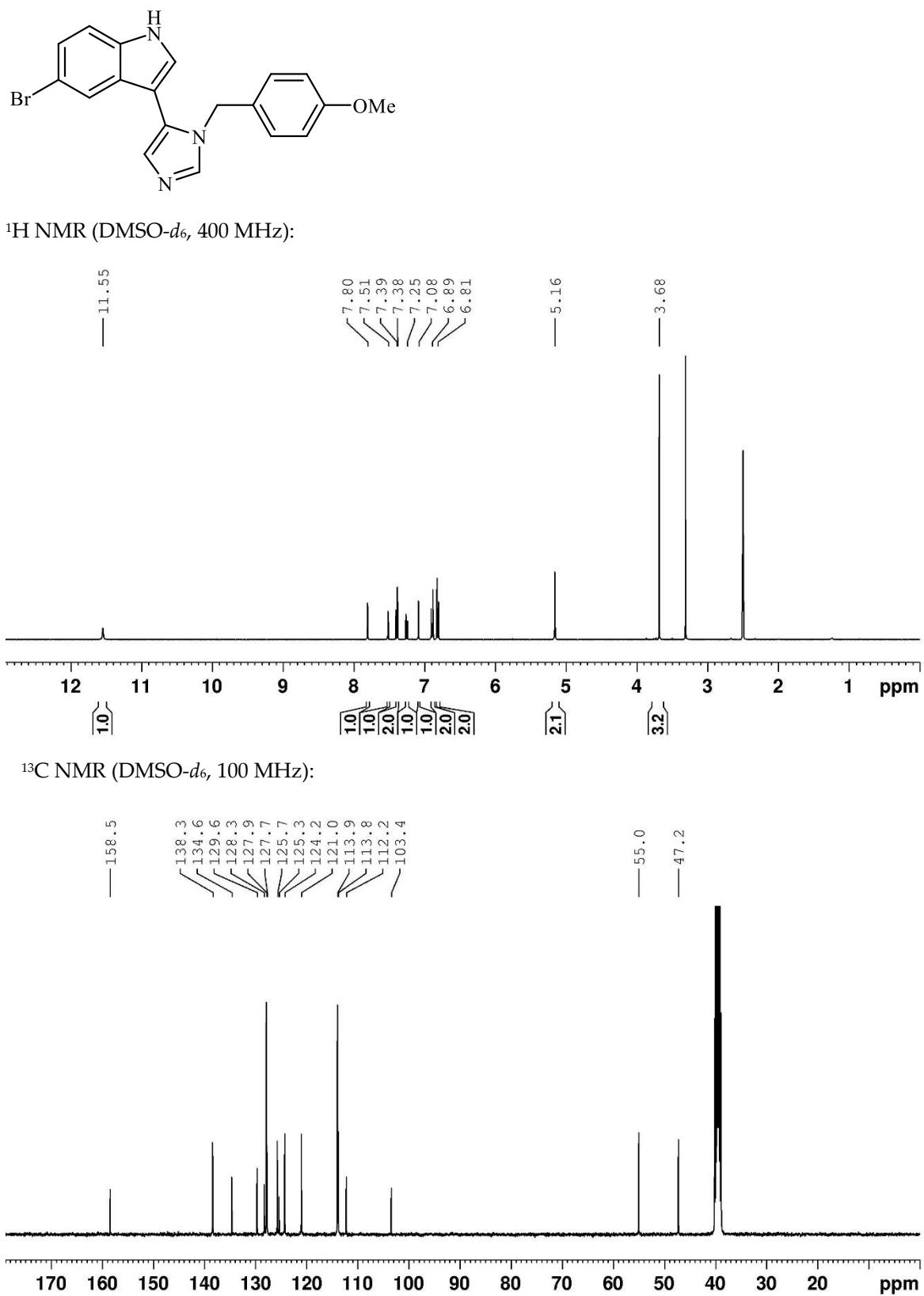
<sup>1</sup>H NMR (DMSO-*d*<sub>6</sub>, 400 MHz):



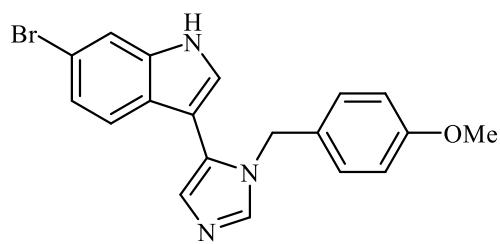
<sup>13</sup>C NMR (DMSO-*d*<sub>6</sub>, 100 MHz):



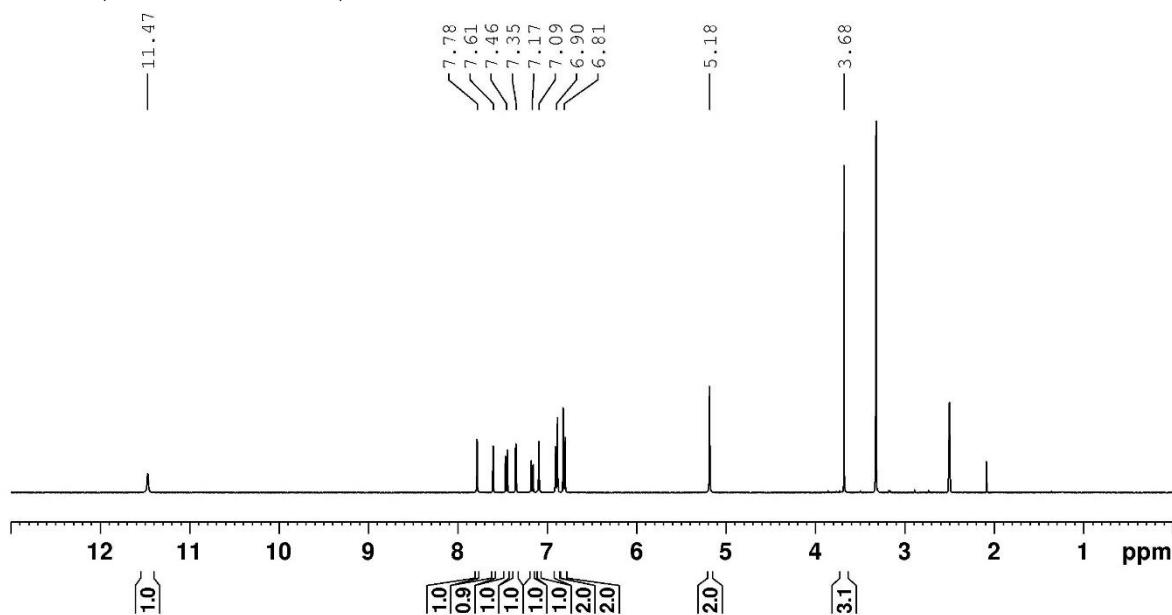
**Figure S16.** 5-Bromo-3-(1-(4-methoxybenzyl)-1*H*-imidazol-5-yl)-1*H*-indole (**16**)



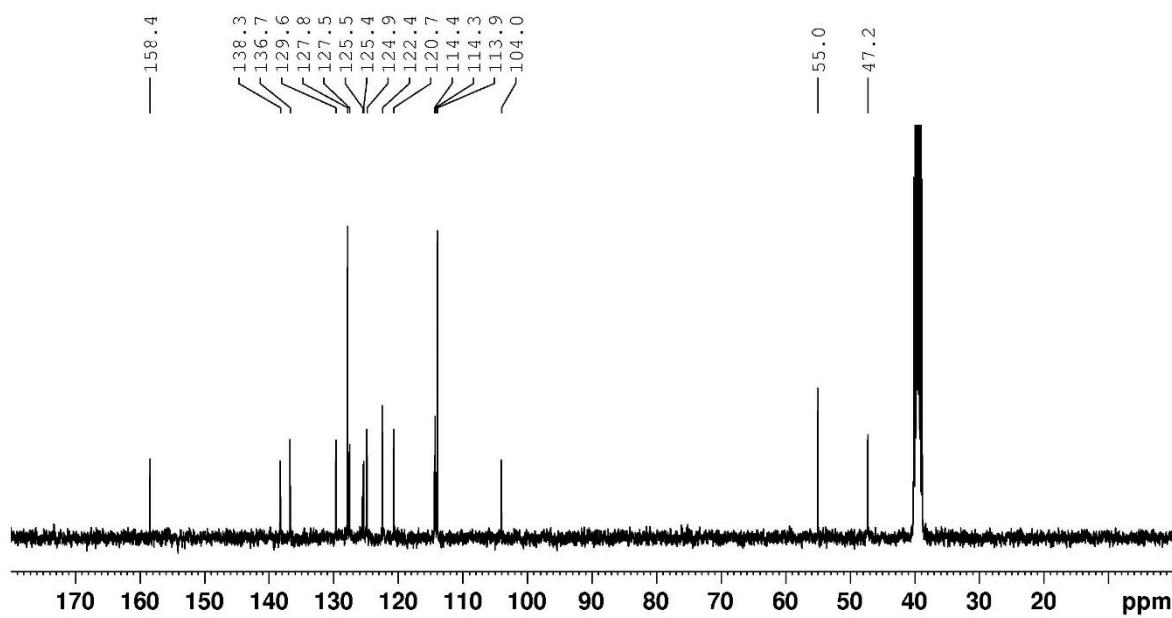
**Figure S17.** 6-Bromo-3-(1-(4-methoxybenzyl)-1*H*-imidazol-5-yl)-1*H*-indole (**17**)



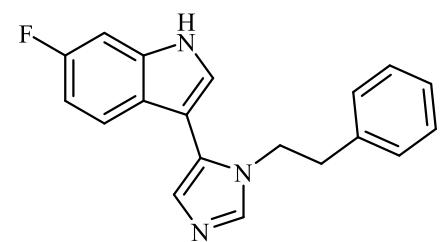
<sup>1</sup>H NMR (DMSO-*d*<sub>6</sub>, 400 MHz):



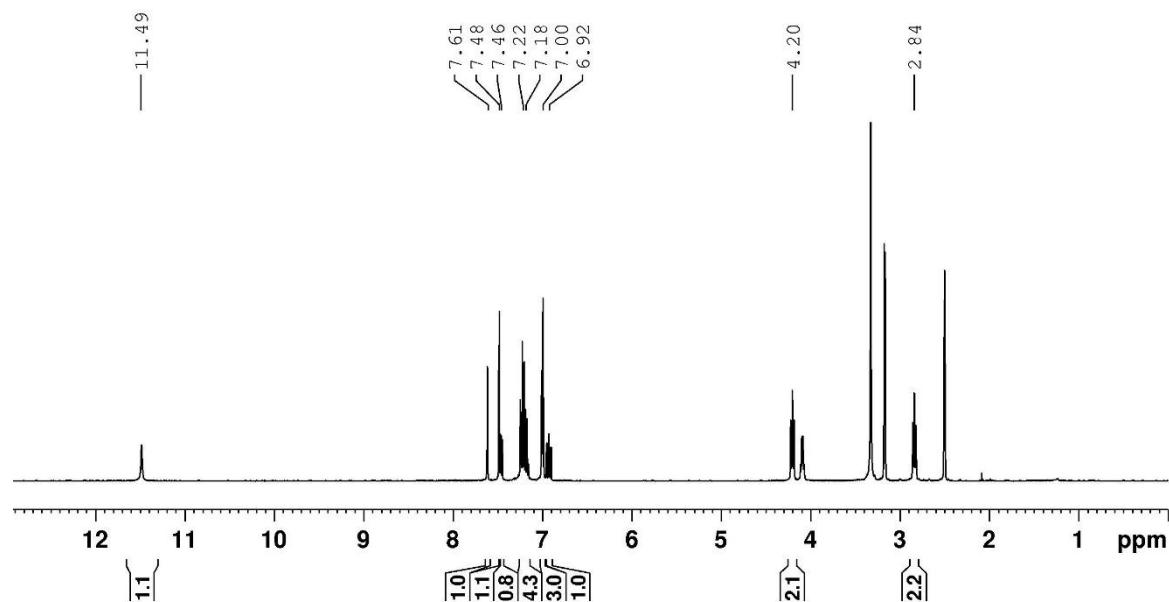
<sup>13</sup>C NMR (DMSO-*d*<sub>6</sub>, 100 MHz):



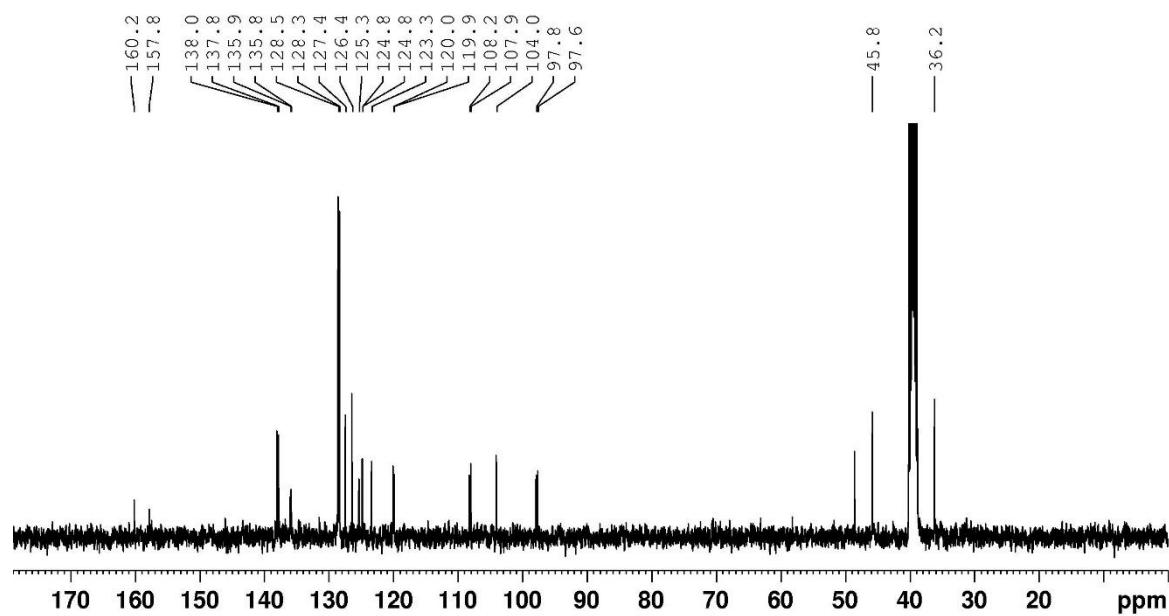
*Figure S18.* 6-Fluoro-3-(1-phenethyl-1*H*-imidazol-5-yl)-1*H*-indole (**18**)



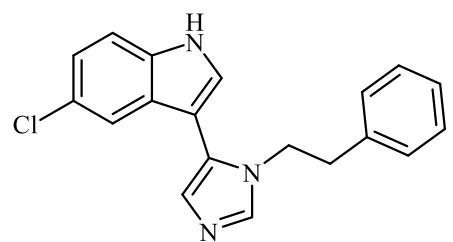
<sup>1</sup>H NMR (DMSO-*d*<sub>6</sub>, 400 MHz):



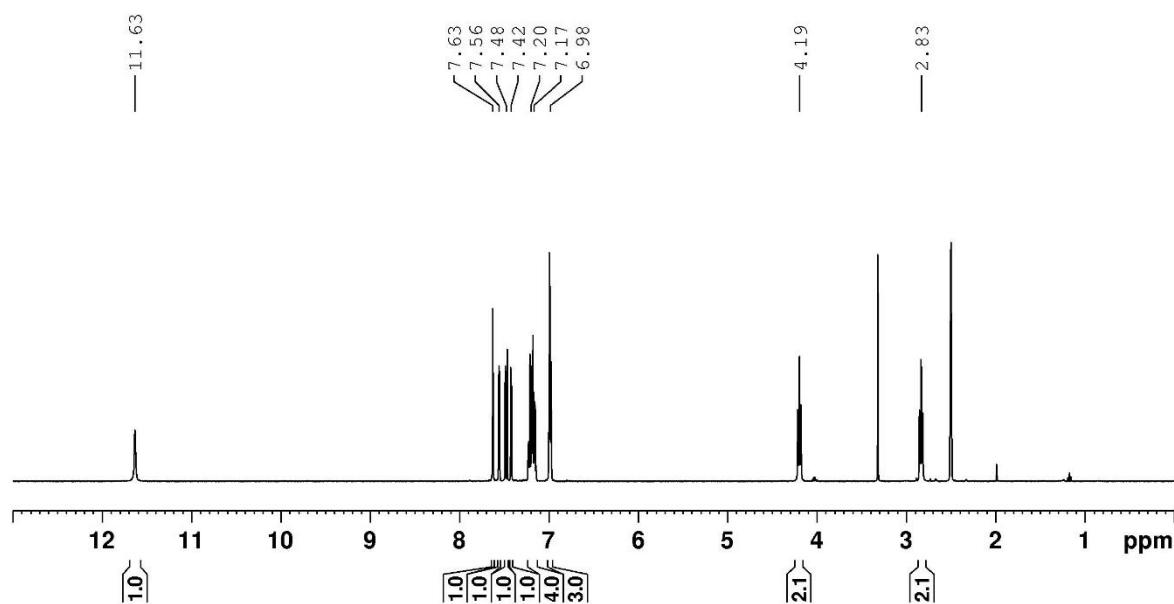
<sup>13</sup>C NMR (DMSO-*d*<sub>6</sub>, 100 MHz):



**Figure S19.** 5-Chloro-3-(1-phenethyl-1*H*-imidazol-5-yl)-1*H*-indole (**19**)



<sup>1</sup>H NMR (DMSO-*d*<sub>6</sub>, 400 MHz):



<sup>13</sup>C NMR (DMSO-*d*<sub>6</sub>, 100 MHz):

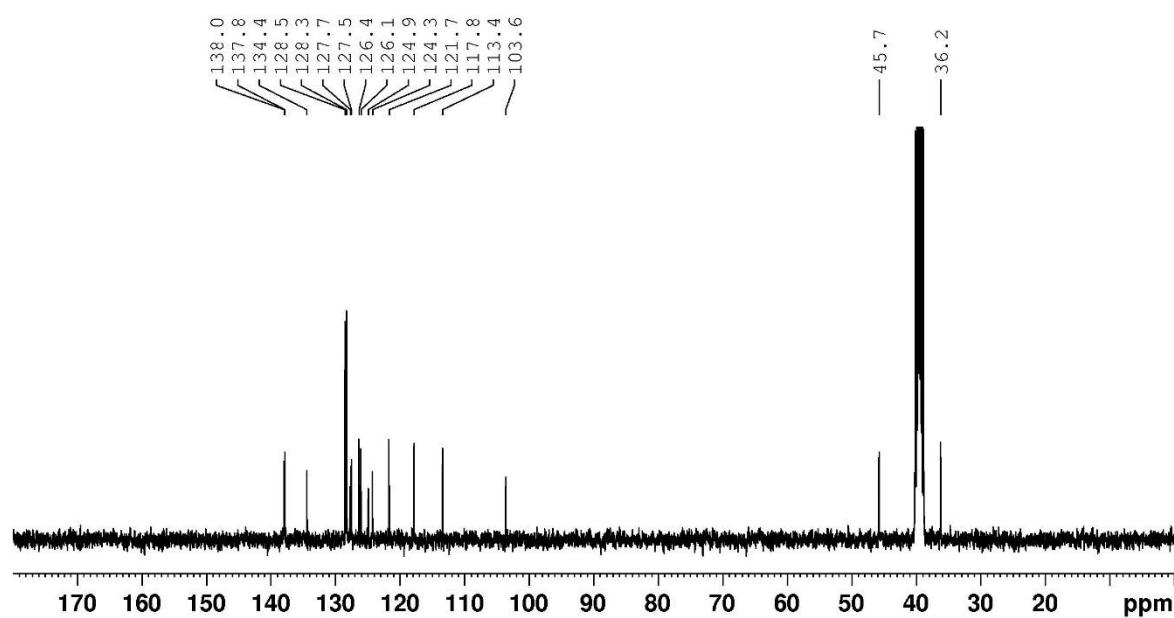
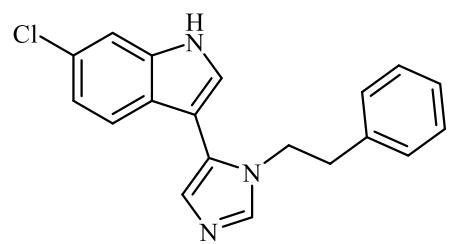
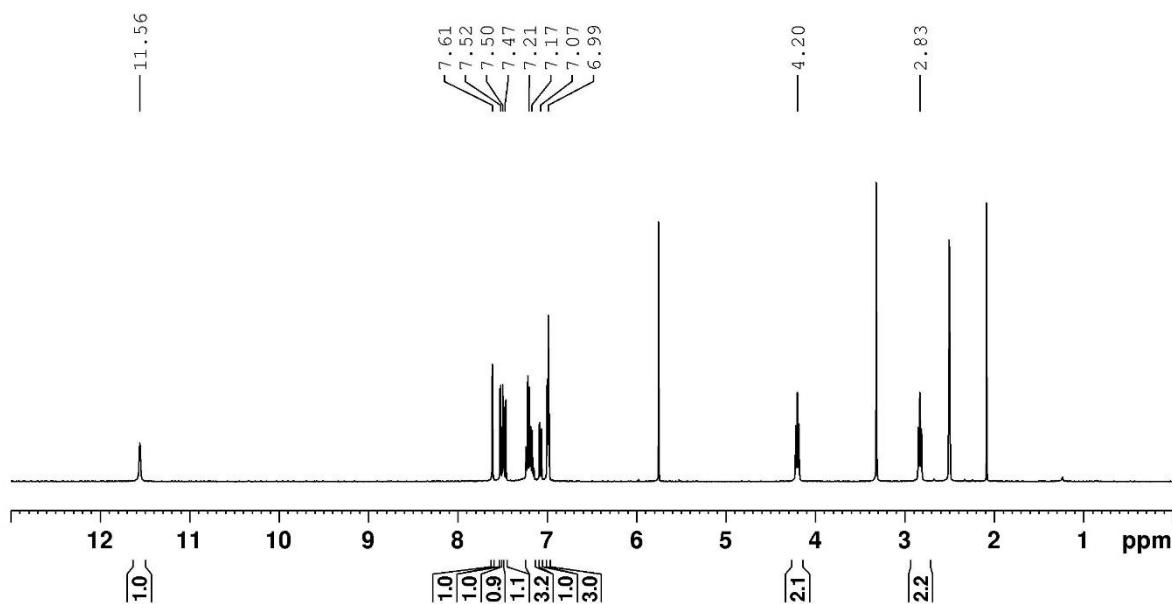


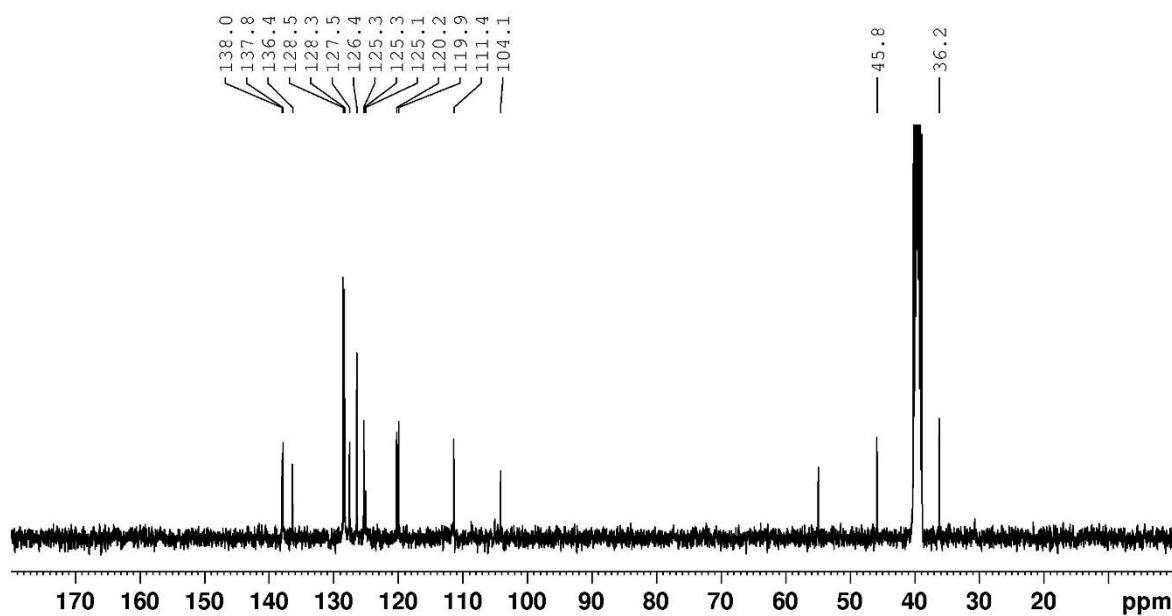
Figure S20. 6-Chloro-3-(1-phenethyl-1*H*-imidazol-5-yl)-1*H*-indole (**20**)



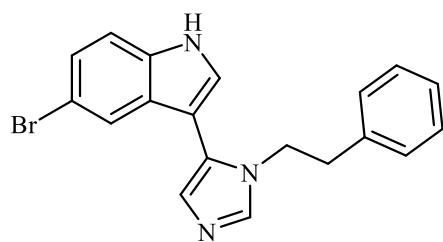
<sup>1</sup>H NMR (DMSO-*d*<sub>6</sub>, 400 MHz):



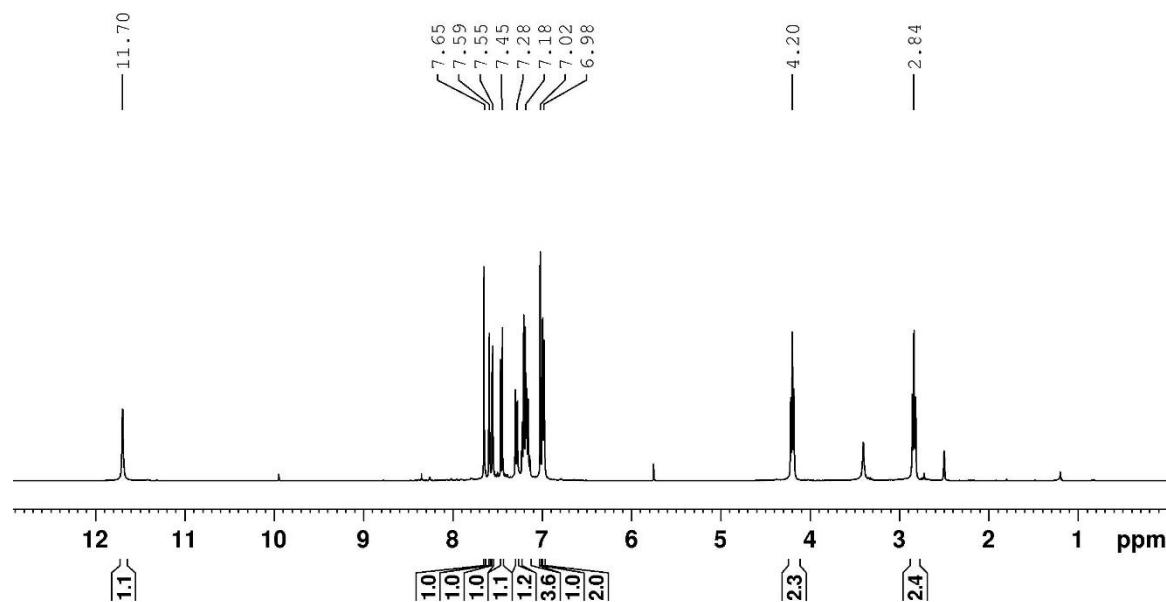
<sup>13</sup>C NMR (DMSO-*d*<sub>6</sub>, 100 MHz):



*Figure S21.* 5-Bromo-3-(1-phenethyl-1*H*-imidazol-5-yl)-1*H*-indole (**21**)



$^1\text{H}$  NMR (DMSO-*d*<sub>6</sub>, 400 MHz):



$^{13}\text{C}$  NMR (DMSO-*d*<sub>6</sub>, 100 MHz):

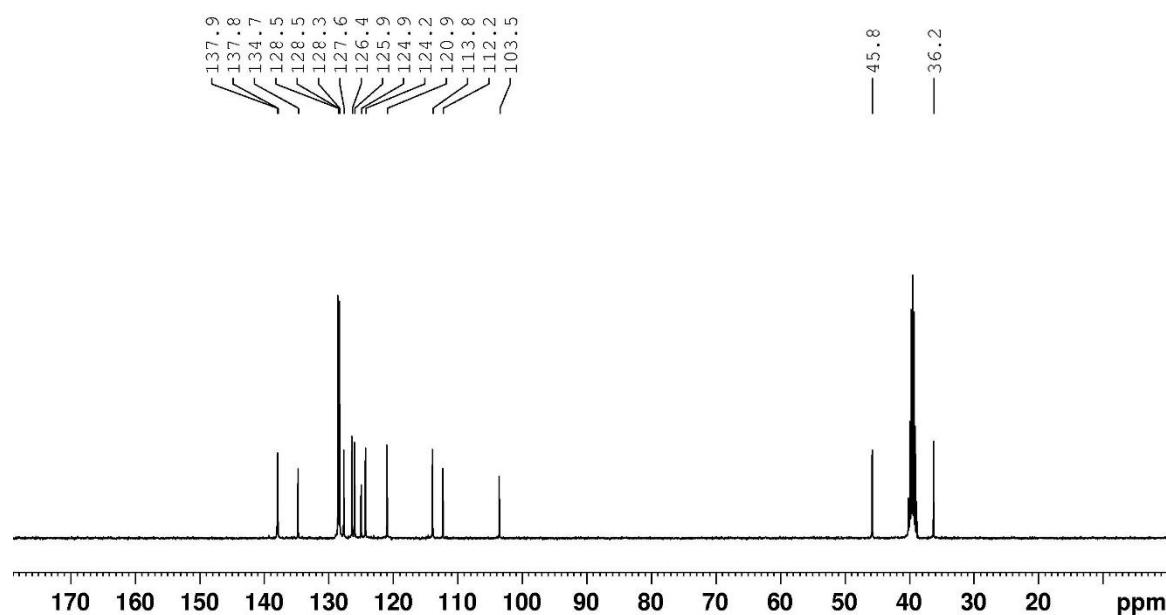
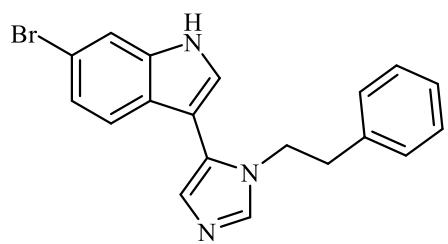
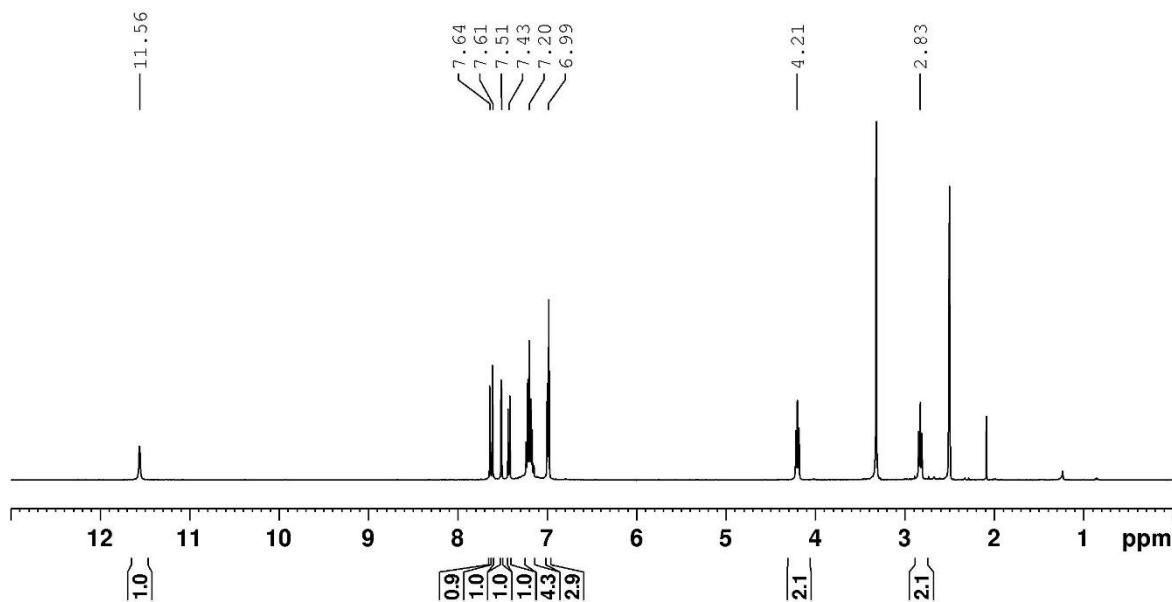


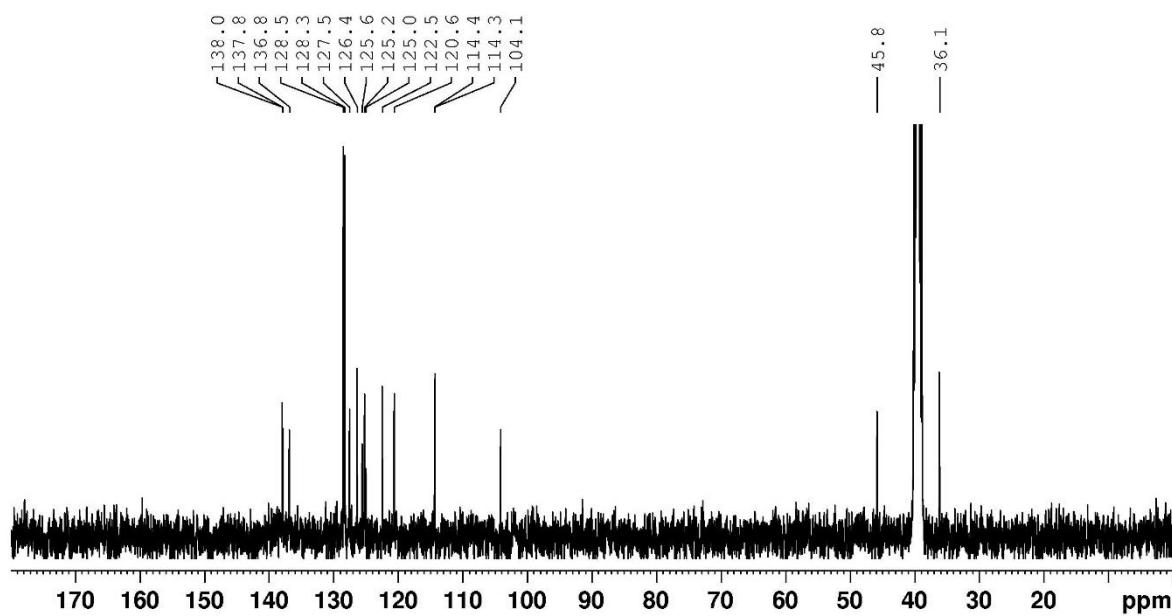
Figure S22. 6-Bromo-3-(1-phenethyl-1*H*-imidazol-5-yl)-1*H*-indole (**22**)



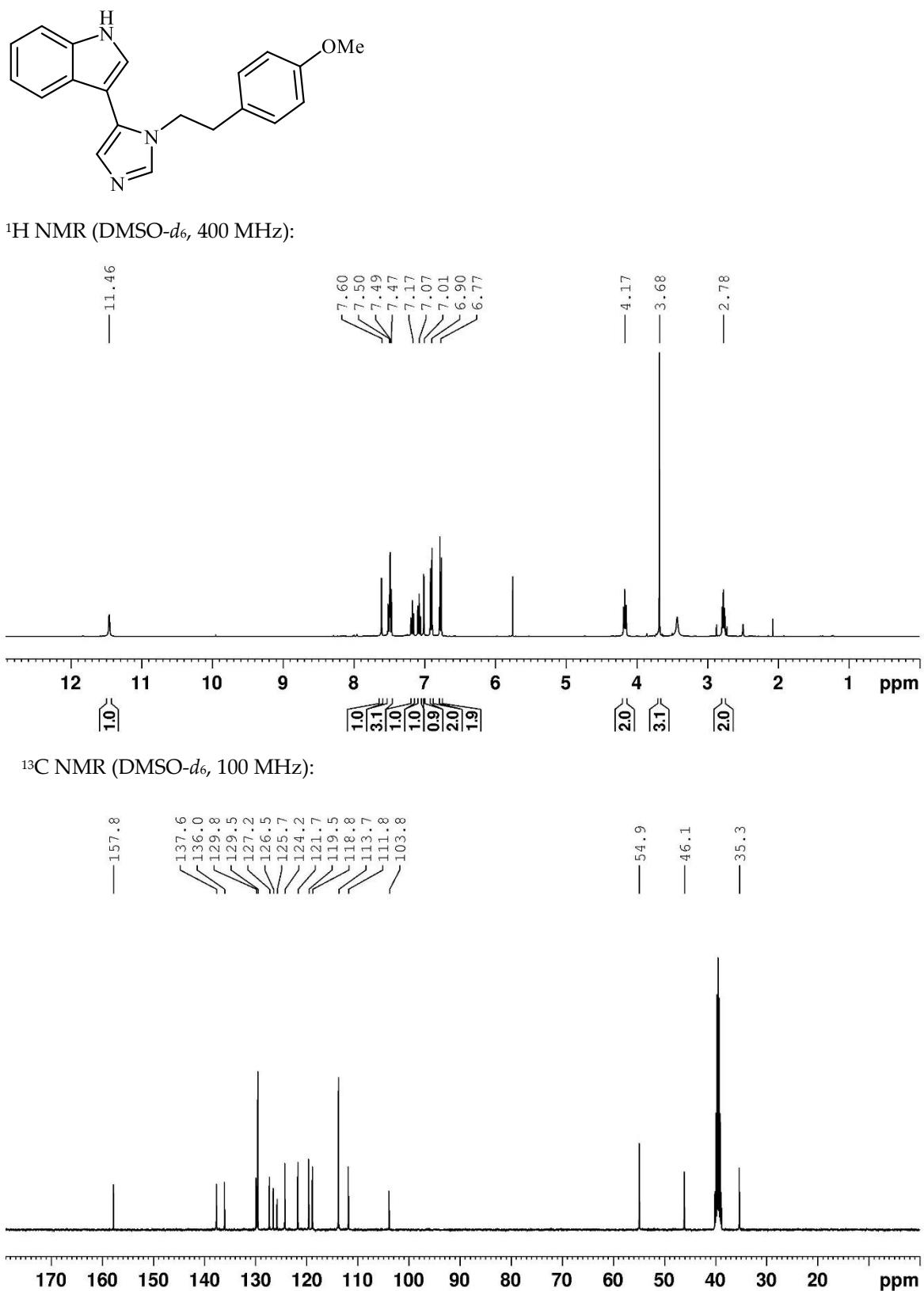
<sup>1</sup>H NMR (DMSO-*d*<sub>6</sub>, 400 MHz):



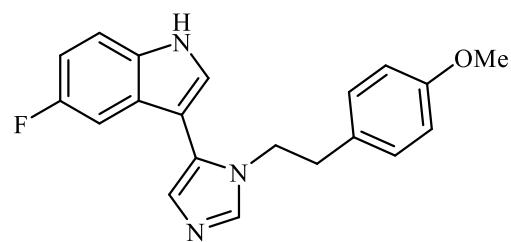
<sup>13</sup>C NMR (DMSO-*d*<sub>6</sub>, 100 MHz):



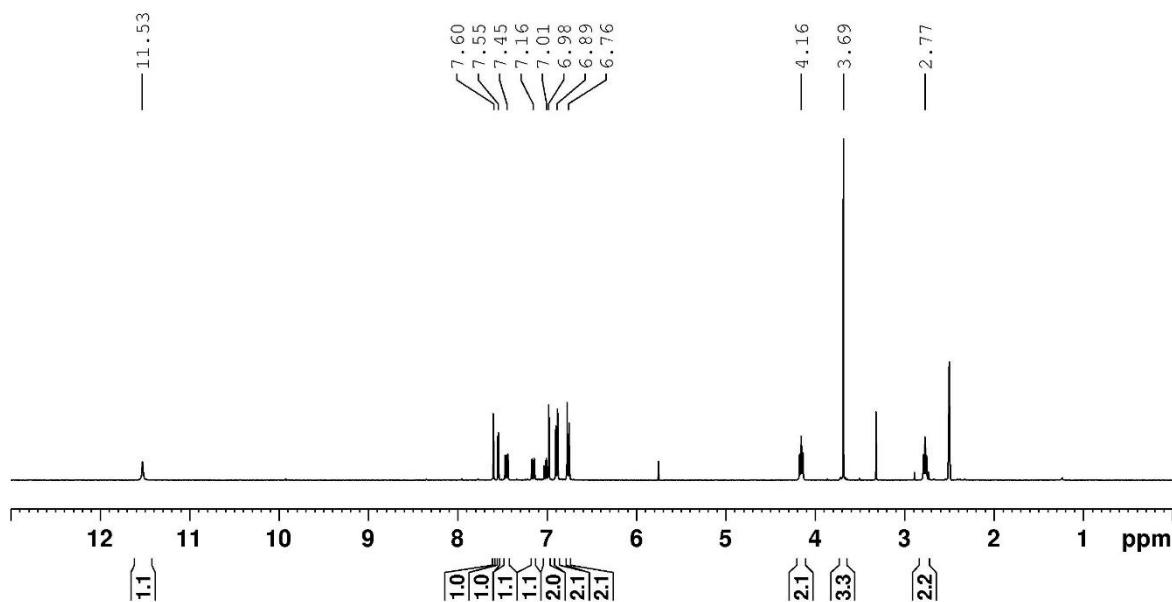
**Figure S23.** 3-(1-(4-Methoxyphenethyl)-1*H*-imidazol-5-yl)-1*H*-indole (**23**)



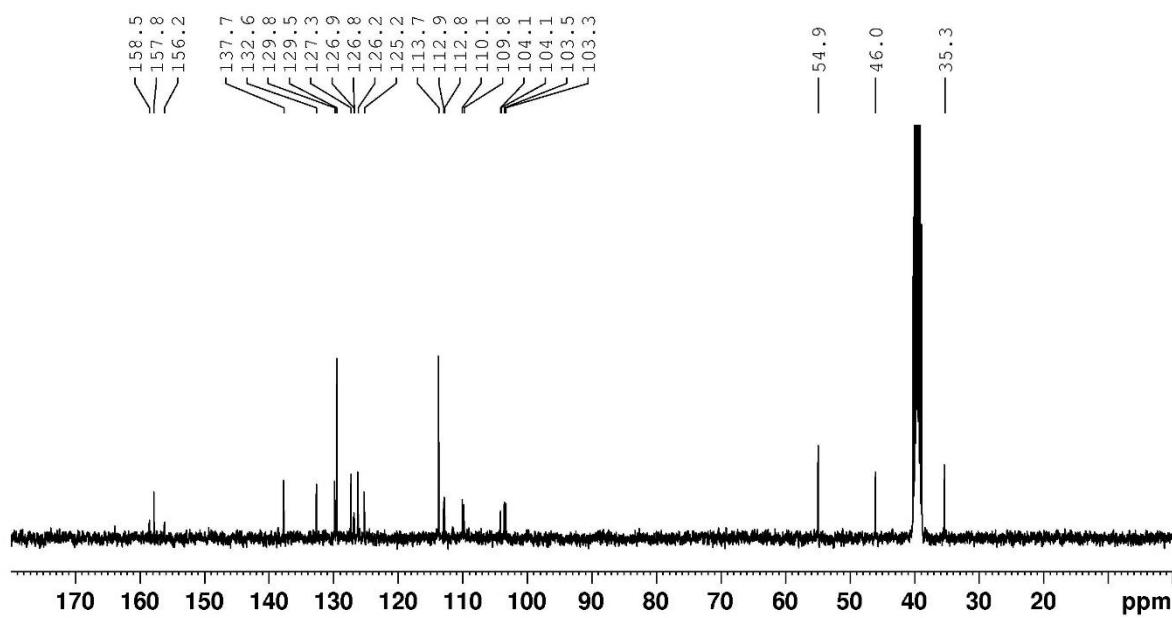
**Figure S24.** 5-Fluoro-3-(1-(4-methoxyphenethyl)-1*H*-imidazol-5-yl)-1*H*-indole (**24**)



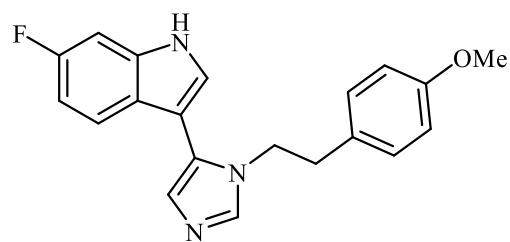
<sup>1</sup>H NMR (DMSO-*d*<sub>6</sub>, 400 MHz):



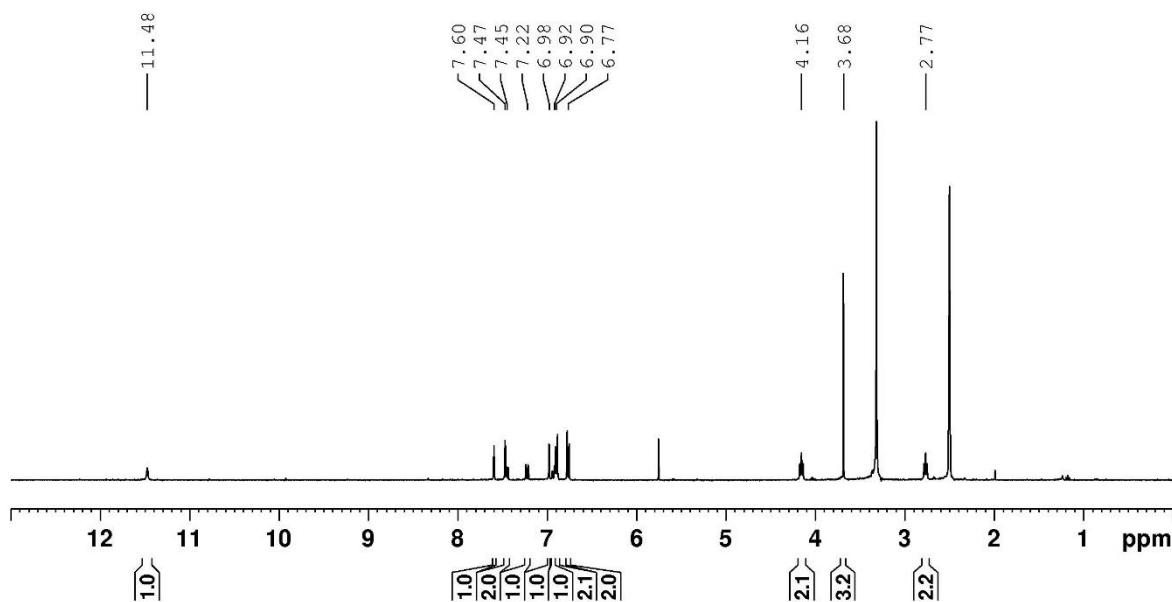
<sup>13</sup>C NMR (DMSO-*d*<sub>6</sub>, 100 MHz):



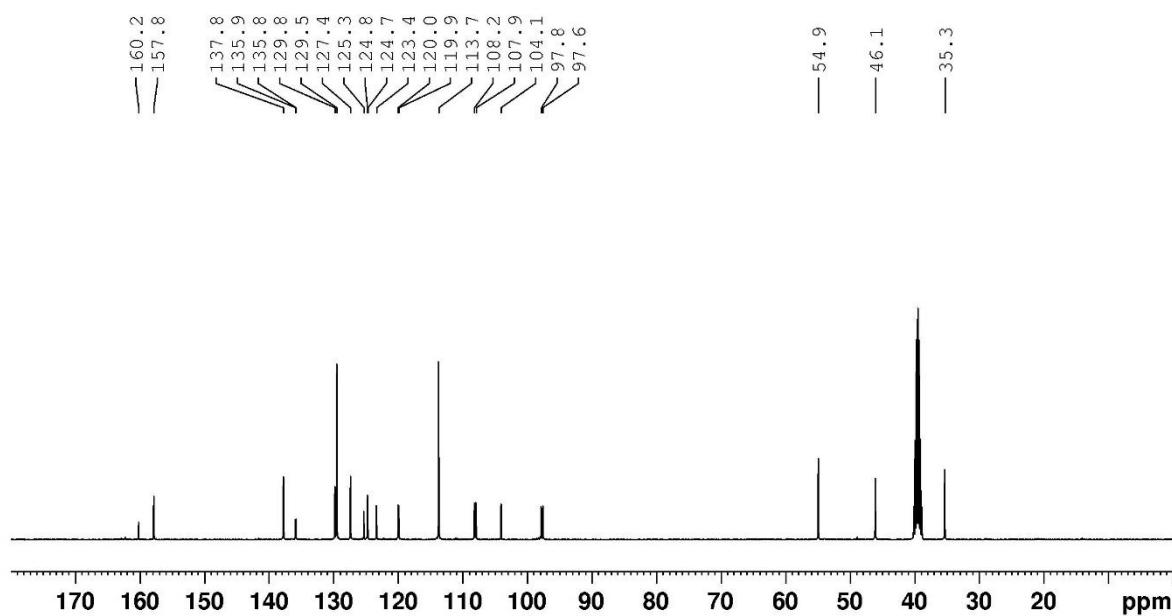
*Figure S25.* 6-Fluoro-3-(1-(4-methoxyphenethyl)-1*H*-imidazol-5-yl)-1*H*-indole (**25**)



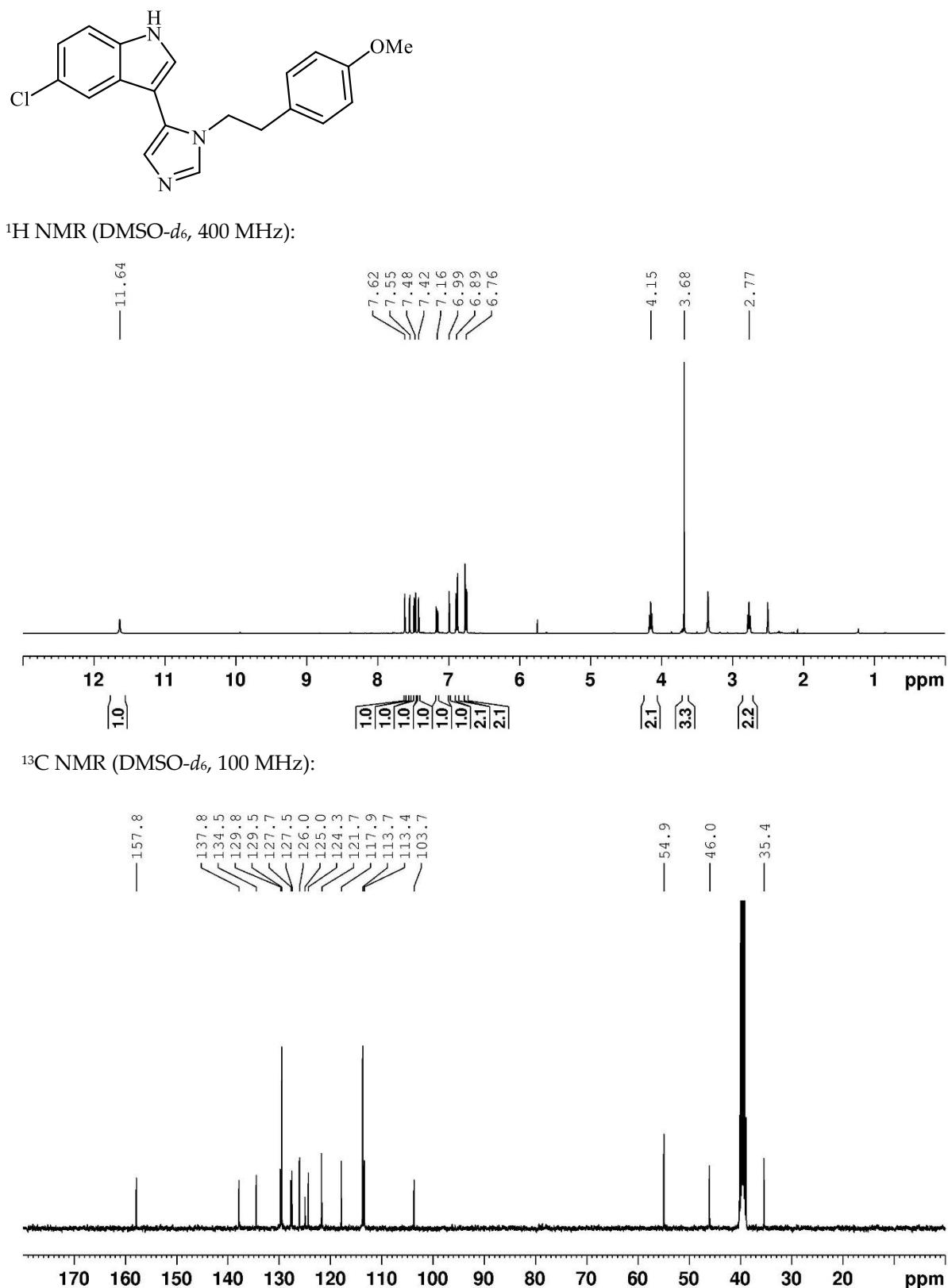
<sup>1</sup>H NMR (DMSO-*d*<sub>6</sub>, 400 MHz):



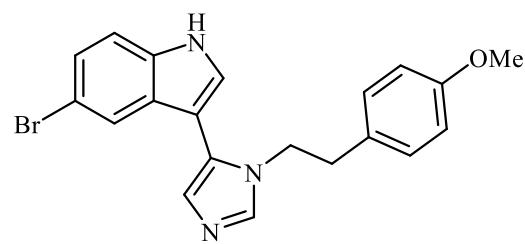
<sup>13</sup>C NMR (DMSO-*d*<sub>6</sub>, 100 MHz):



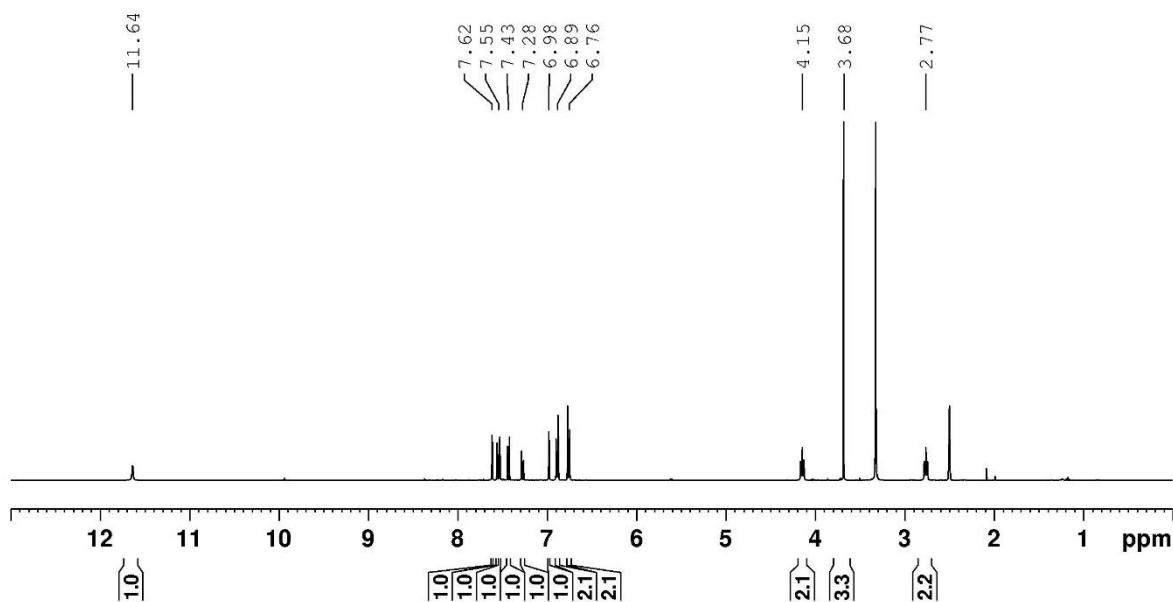
**Figure S26.** 5-Chloro-3-(1-(4-methoxyphenethyl)-1*H*-imidazol-5-yl)-1*H*-indole (**26**)



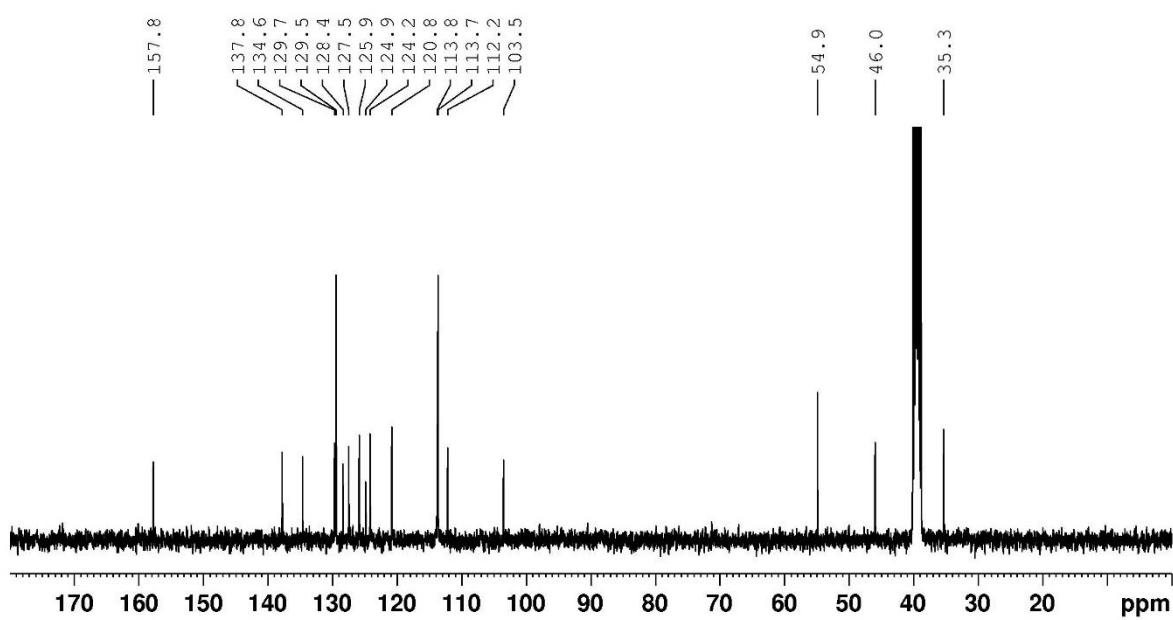
*Figure S27.* 5-Bromo-3-(1-(4-methoxyphenethyl)-1*H*-imidazol-5-yl)-1*H*-indole (**27**)



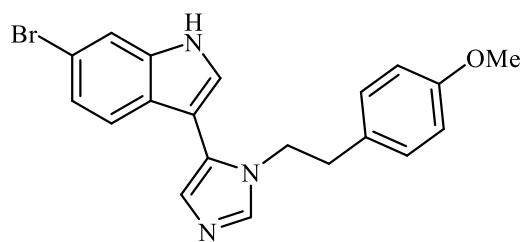
<sup>1</sup>H NMR (DMSO-*d*<sub>6</sub>, 400 MHz):



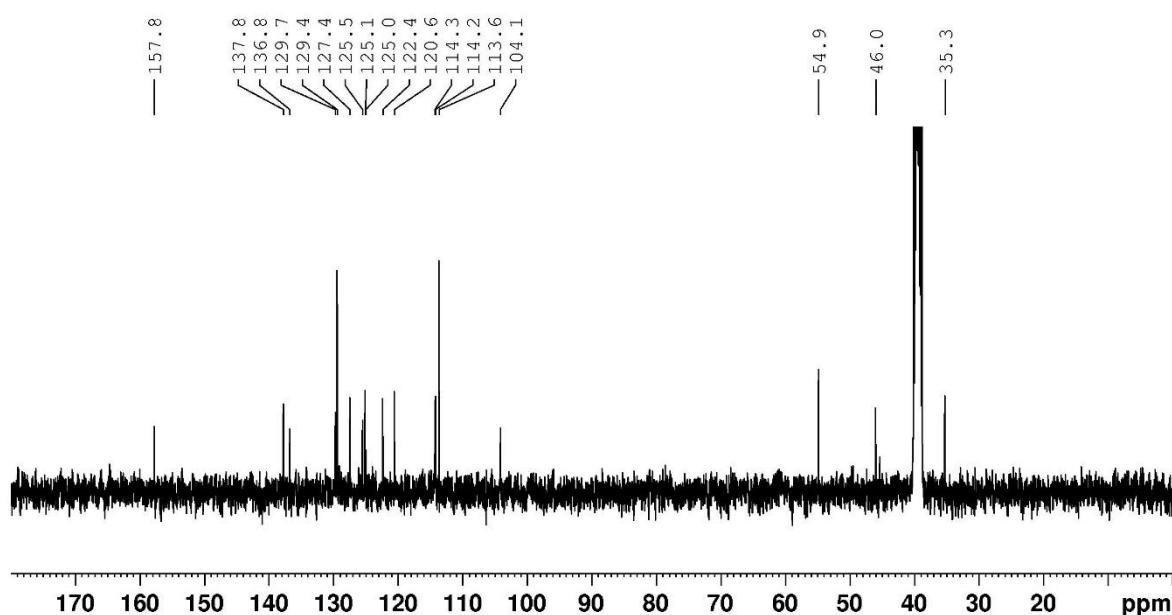
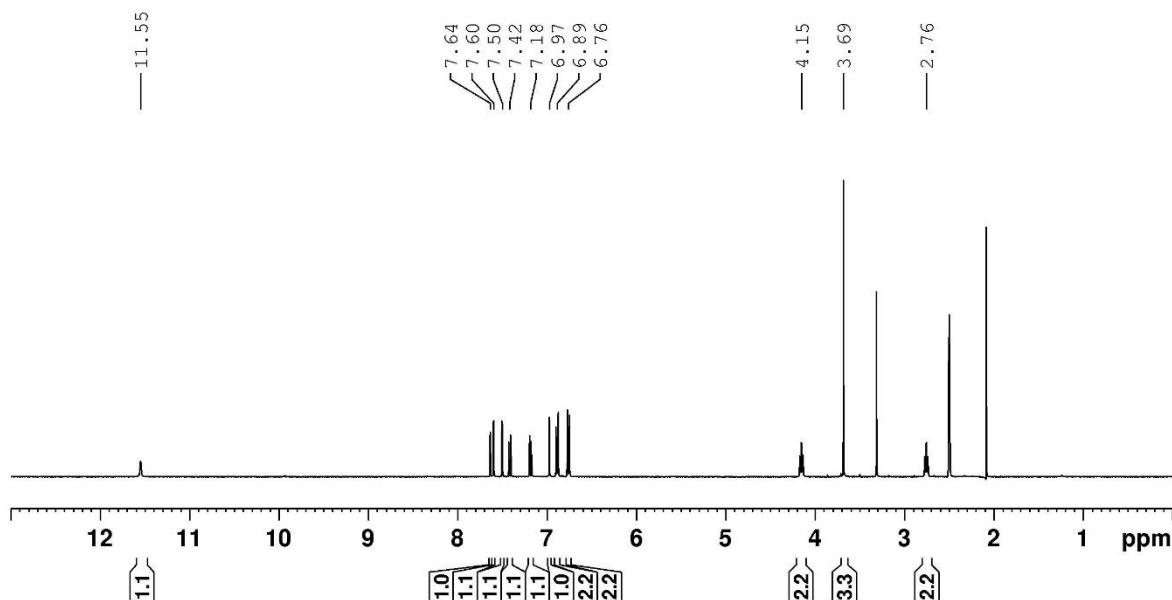
<sup>13</sup>C NMR (DMSO-*d*<sub>6</sub>, 100 MHz):



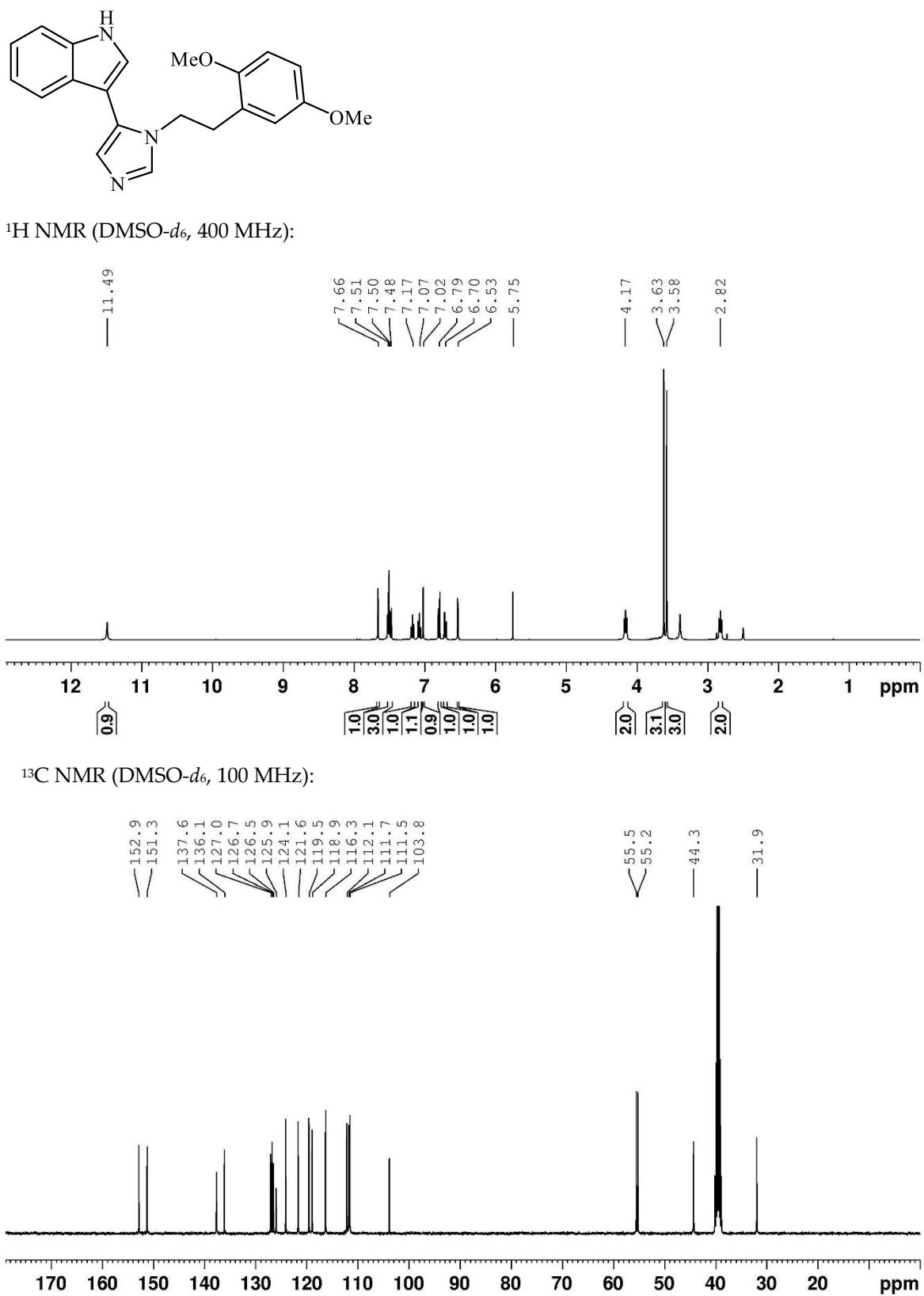
*Figure S28.* 6-Bromo-3-(1-(4-methoxyphenethyl)-1*H*-imidazol-5-yl)-1*H*-indole (**28**)



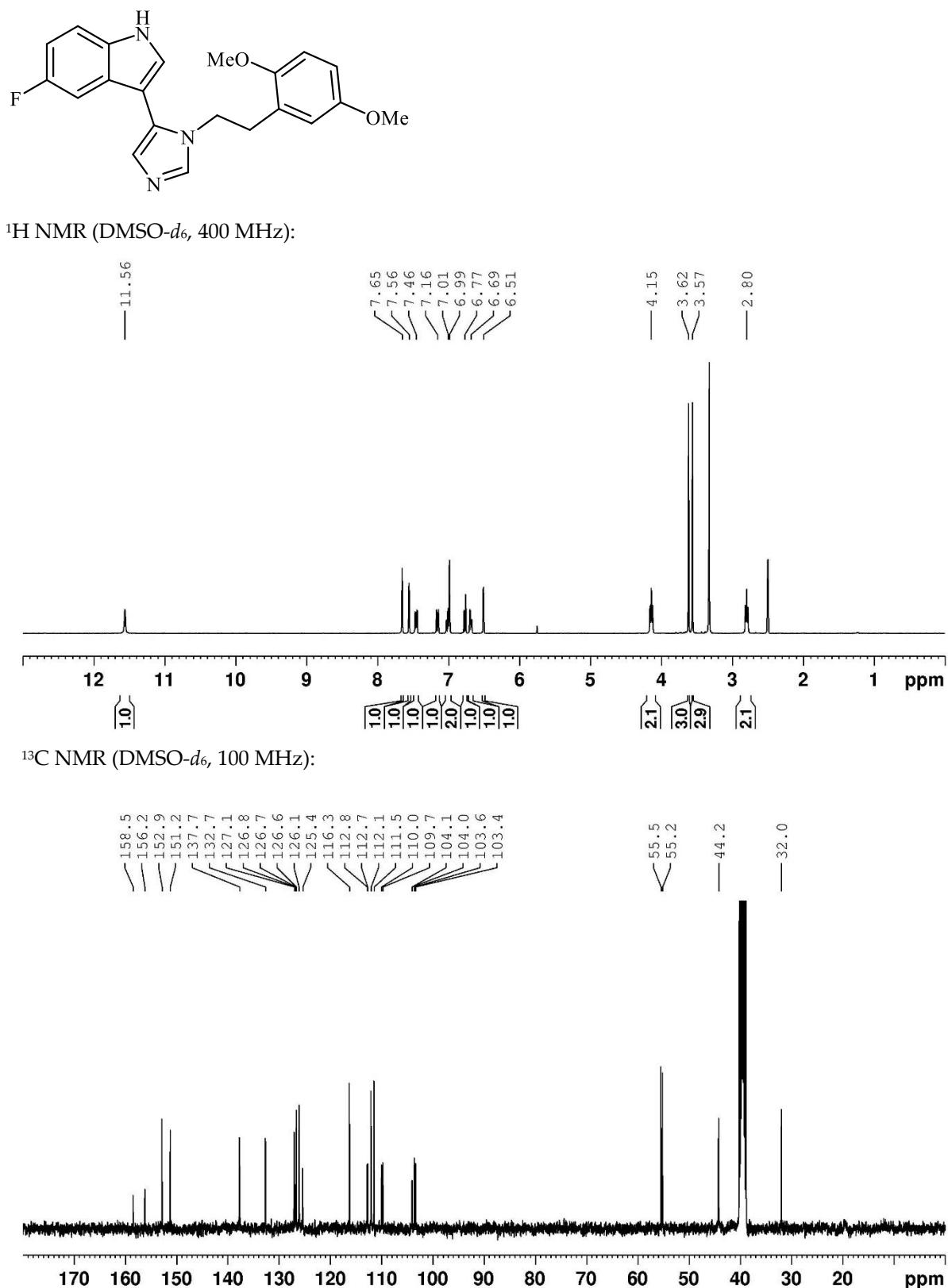
$^1\text{H}$  NMR (DMSO-*d*<sub>6</sub>, 400 MHz):



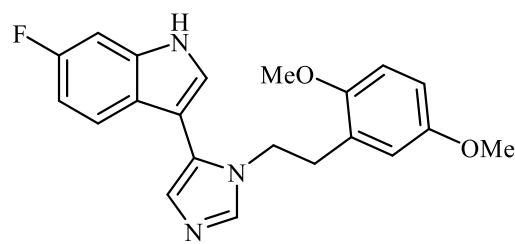
**Figure S29.** 3-(1-(2,5-Dimethoxyphenethyl)-1*H*-imidazol-5-yl)-1*H*-indole (**29**)



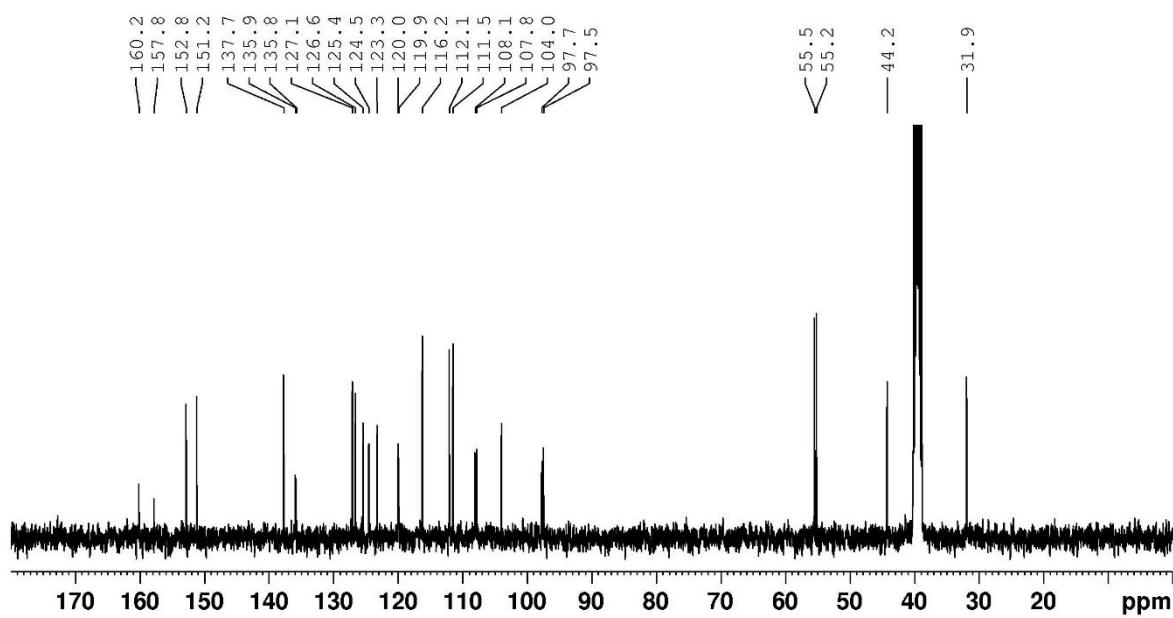
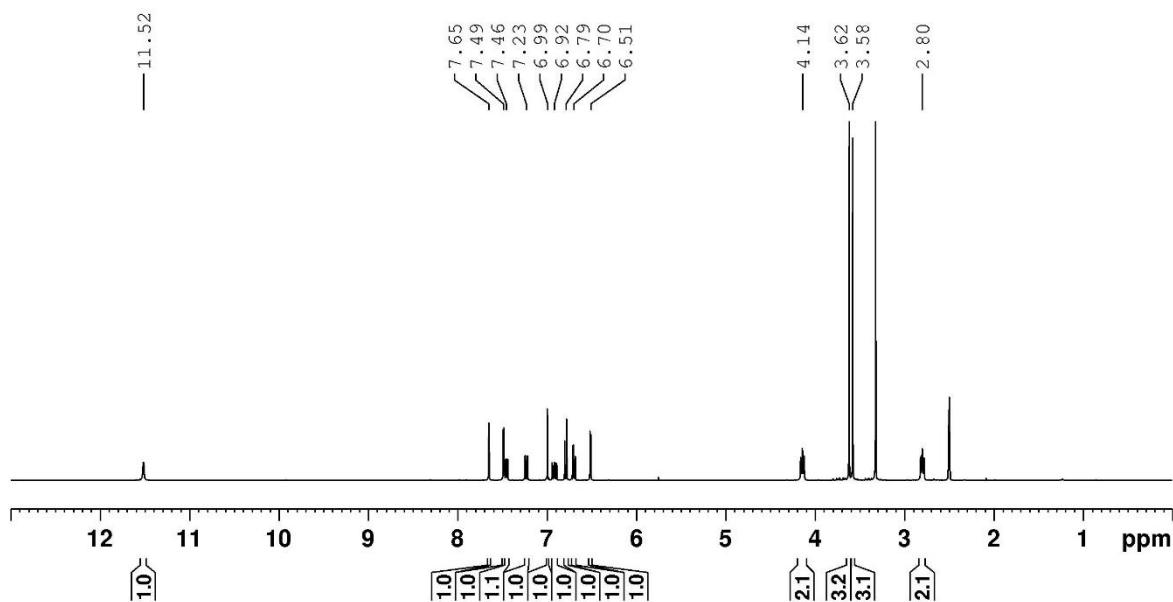
**Figure S30.** 3-(1-(2,5-Dimethoxyphenethyl)-1*H*-imidazol-5-yl)-5-fluoro-1*H*-indole (**30**)



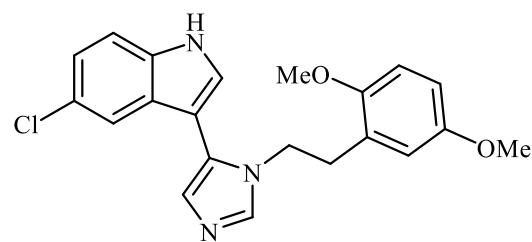
**Figure S31.** 3-(1-(2,5-Dimethoxyphenethyl)-1*H*-imidazol-5-yl)-6-fluoro-1*H*-indole (**31**)



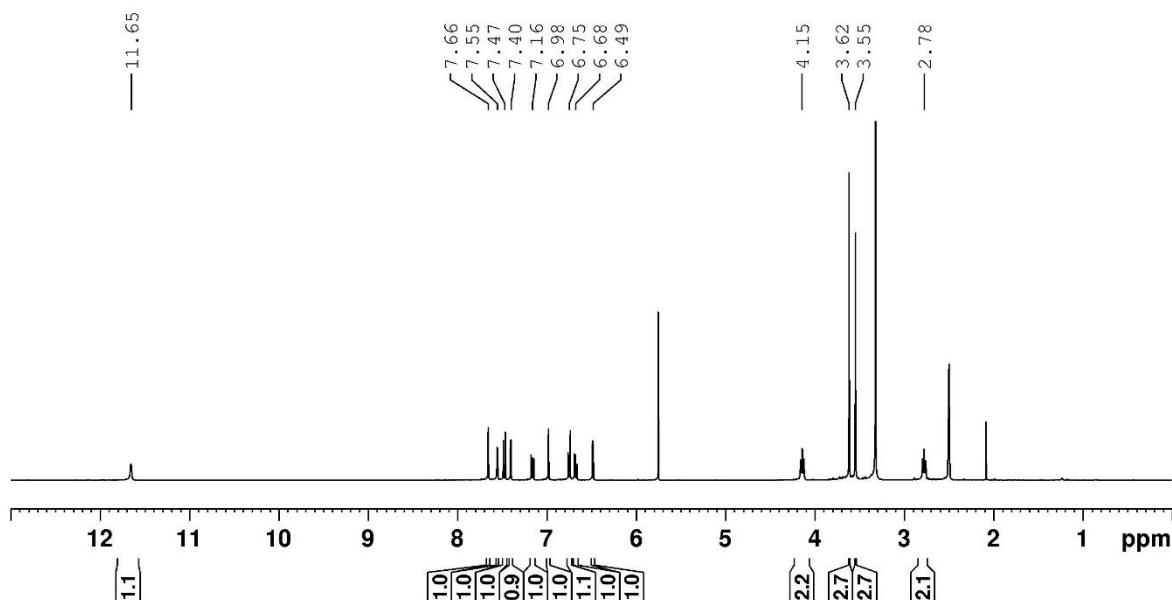
<sup>1</sup>H NMR (DMSO-*d*<sub>6</sub>, 400 MHz):



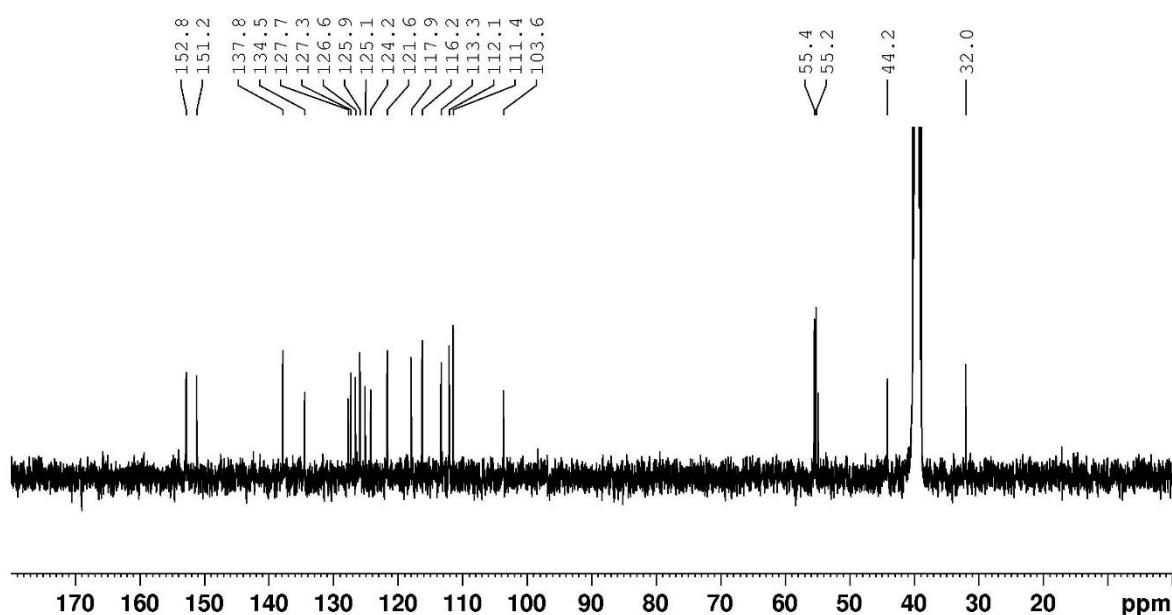
**Figure S32.** 5-Chloro-3-(1-(2,5-dimethoxyphenethyl)-1*H*-imidazol-5-yl)-1*H*-indole (**32**)



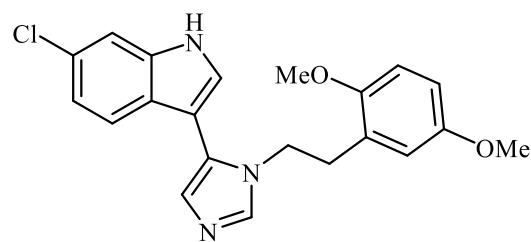
<sup>1</sup>H NMR (DMSO-*d*<sub>6</sub>, 400 MHz):



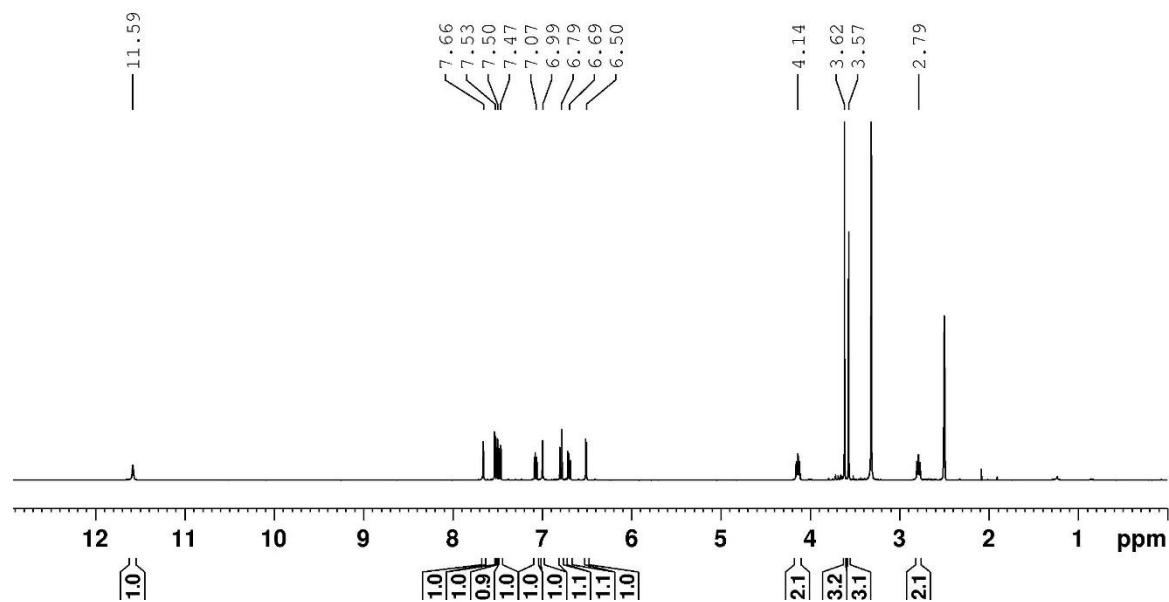
<sup>13</sup>C NMR (DMSO-*d*<sub>6</sub>, 100 MHz):



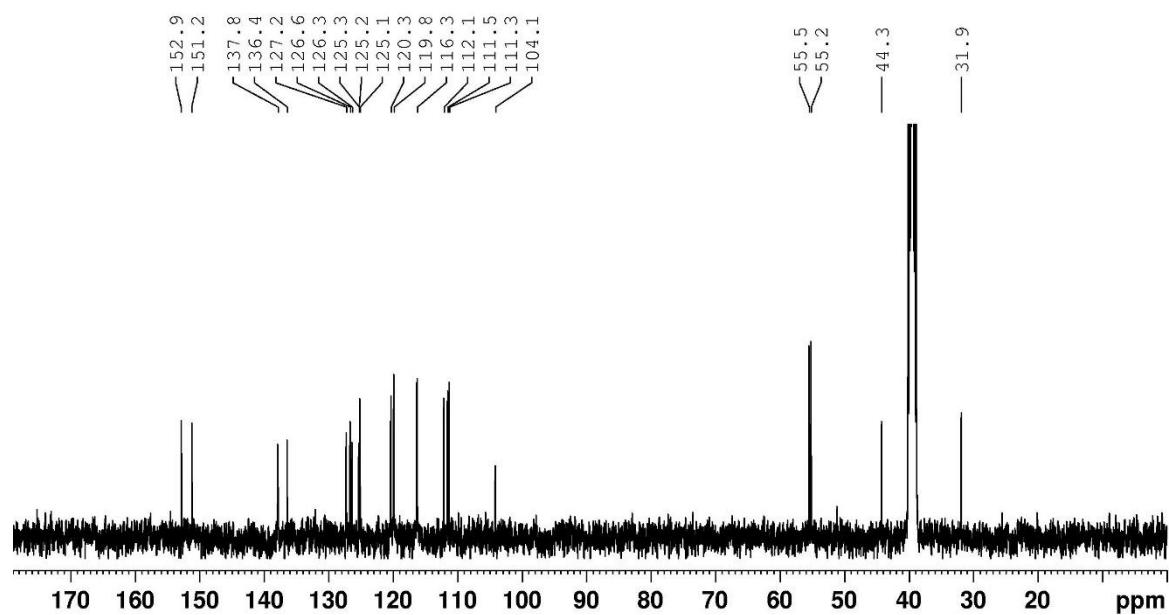
**Figure S33.** 6-Chloro-3-(1-(2,5-dimethoxyphenethyl)-1*H*-imidazol-5-yl)-1*H*-indole (**33**)



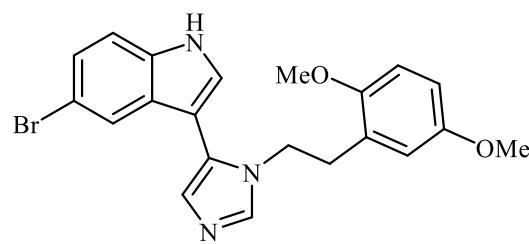
<sup>1</sup>H NMR (DMSO-*d*<sub>6</sub>, 400 MHz):



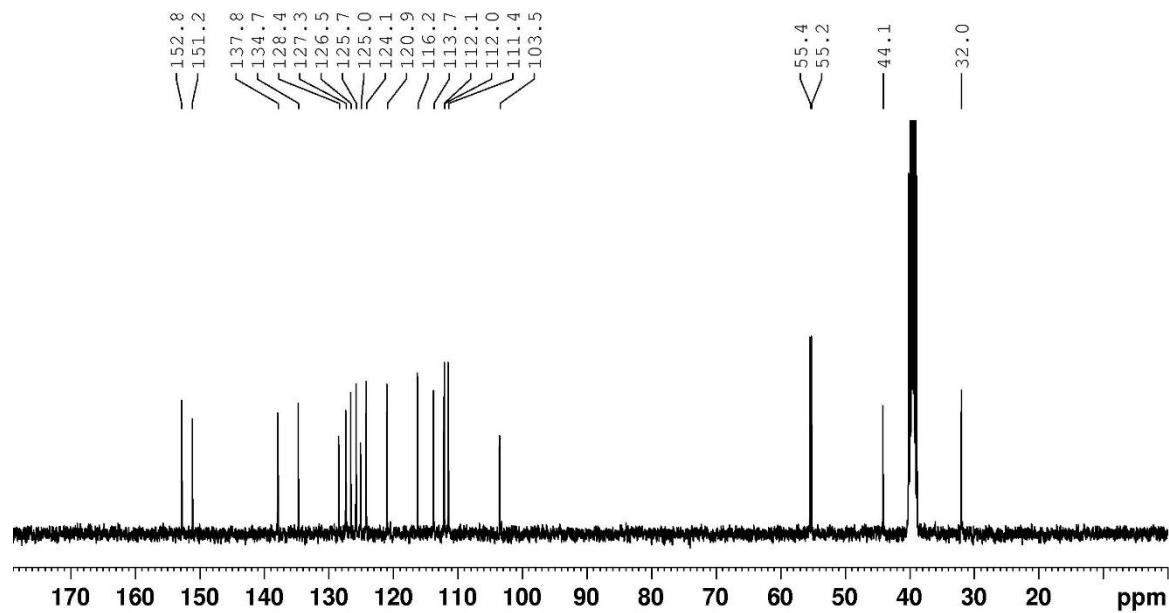
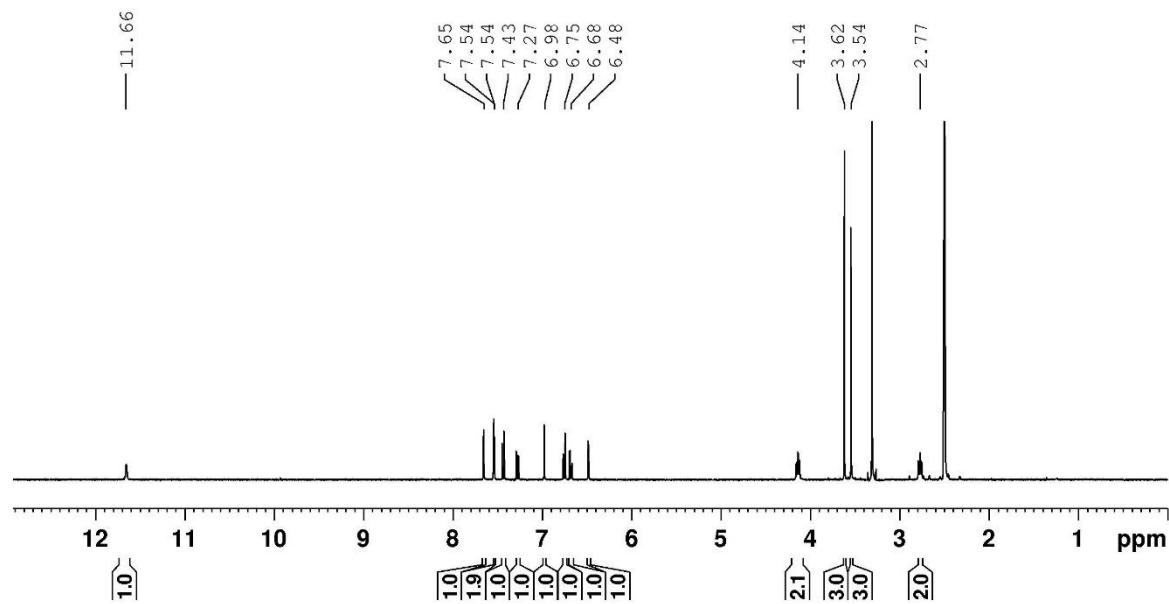
<sup>13</sup>C NMR (DMSO-*d*<sub>6</sub>, 100 MHz):



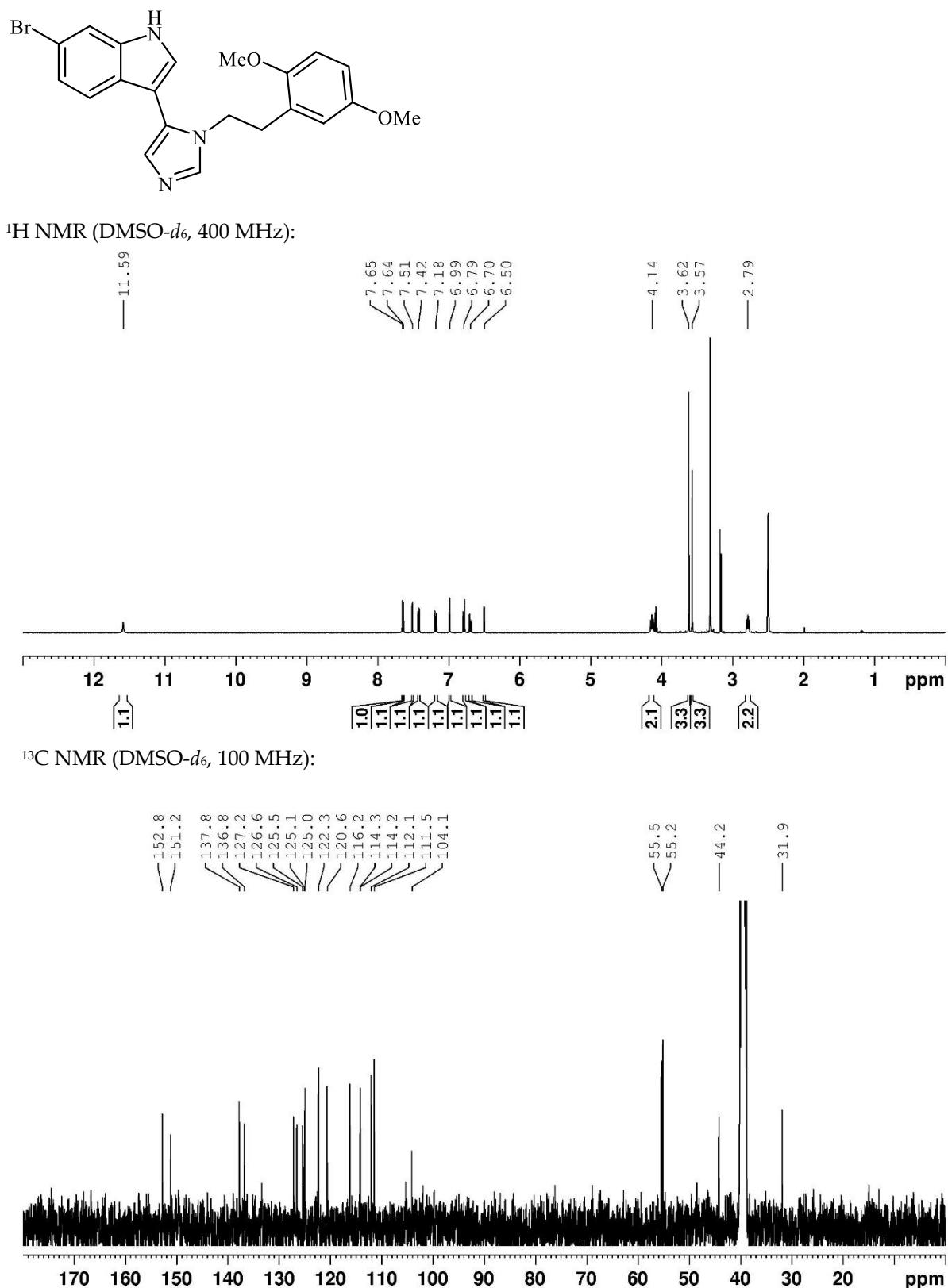
**Figure S34.** 5-Bromo-3-(1-(2,5-dimethoxyphenethyl)-1*H*-imidazol-5-yl)-1*H*-indole (**34**)



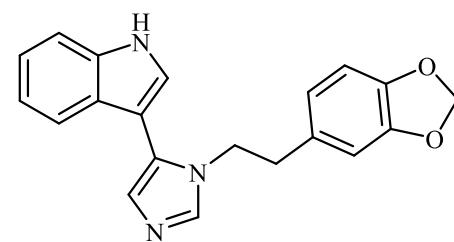
<sup>1</sup>H NMR (DMSO-*d*<sub>6</sub>, 400 MHz):



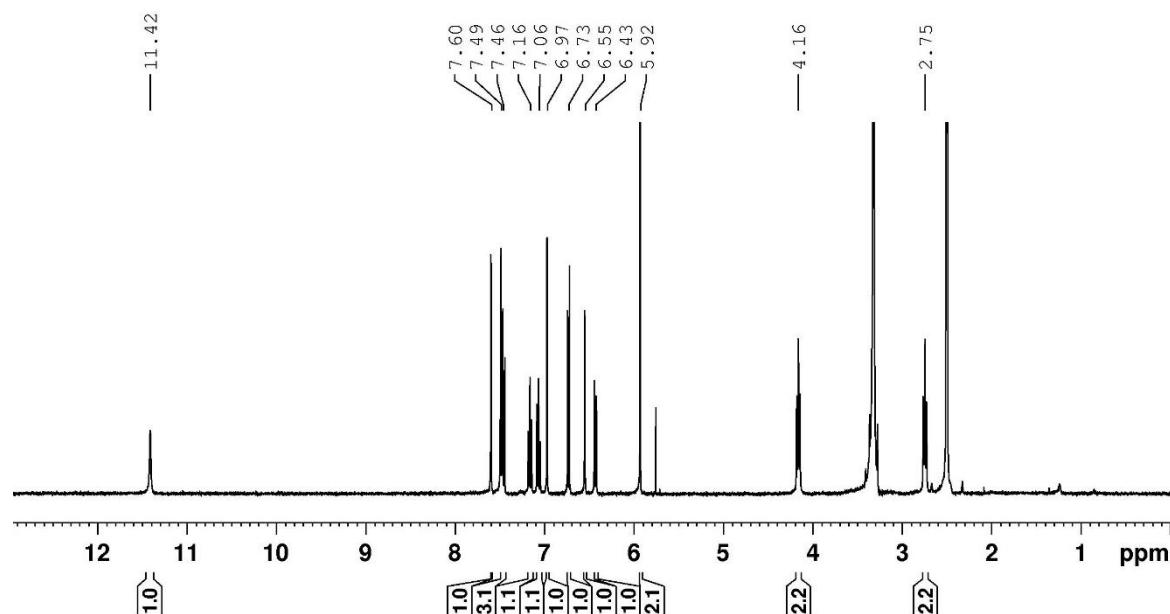
**Figure S35.** 6-Bromo-3-(1-(2,5-dimethoxyphenethyl)-1*H*-imidazol-5-yl)-1*H*-indole (**35**)



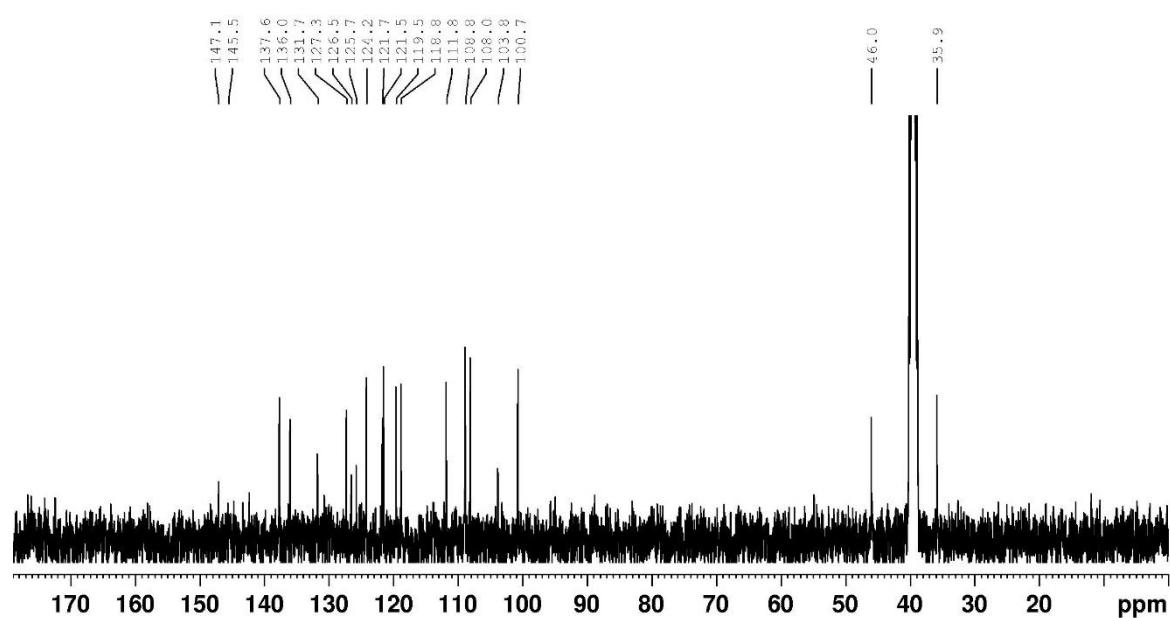
**Figure S36.** 3-(1-(2-(Benzo[*d*][1,3]dioxol-5-yl)ethyl)-1*H*-imidazol-5-yl)-1*H*-indole (**36**)



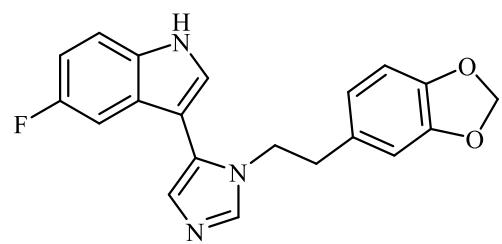
<sup>1</sup>H NMR (DMSO-*d*<sub>6</sub>, 400 MHz):



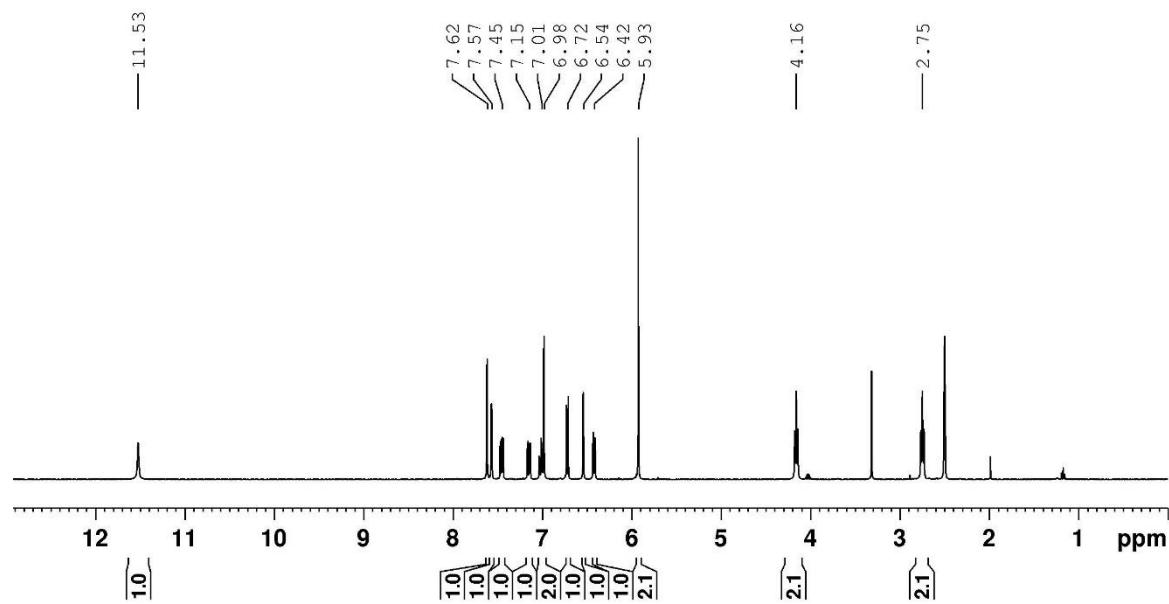
<sup>13</sup>C NMR (DMSO-*d*<sub>6</sub>, 100 MHz):



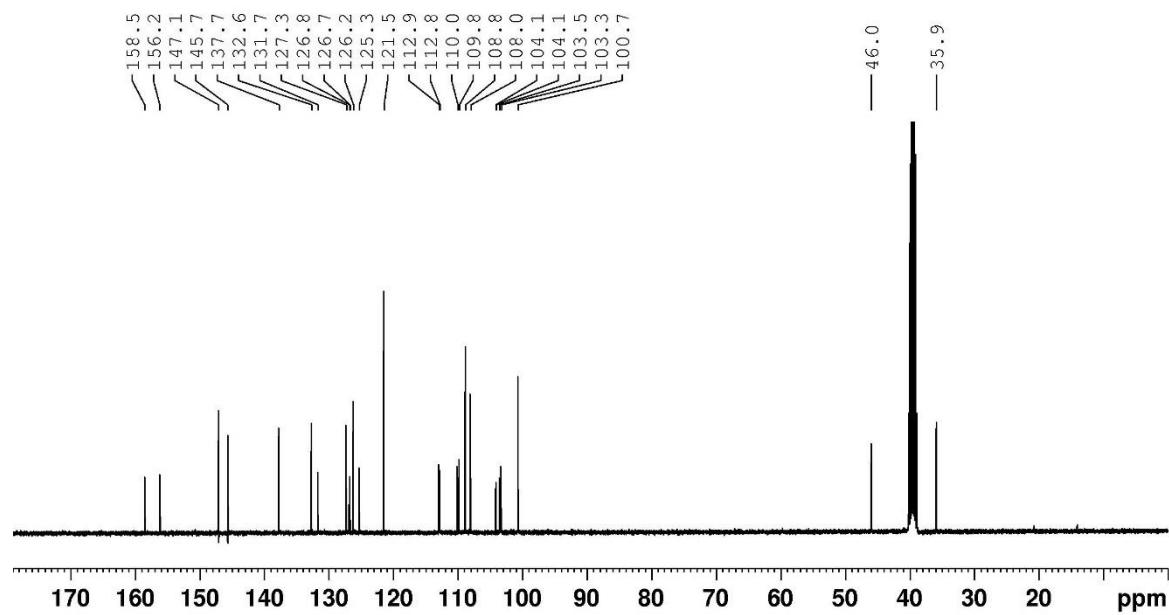
**Figure S37.** 3-(1-(2-(Benzo[*d*][1,3]dioxol-5-yl)ethyl)-1*H*-imidazol-5-yl)-5-fluoro-1*H*-indole (**37**)



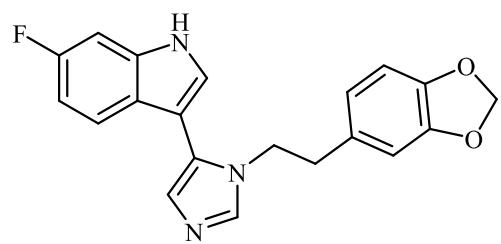
<sup>1</sup>H NMR (DMSO-*d*<sub>6</sub>, 400 MHz):



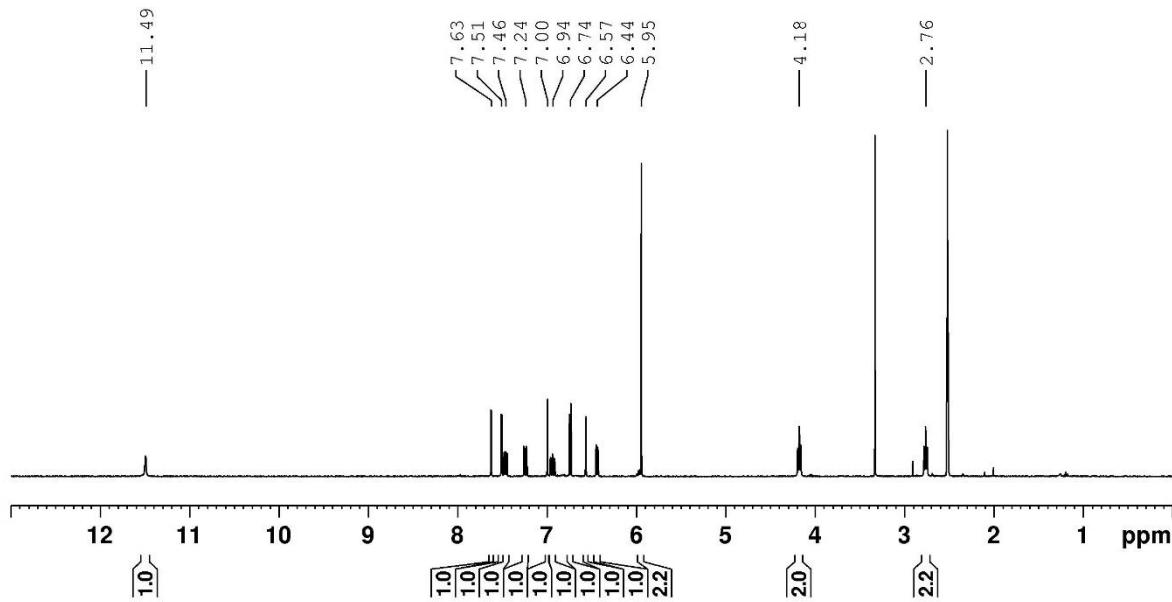
<sup>13</sup>C NMR (DMSO-*d*<sub>6</sub>, 100 MHz):



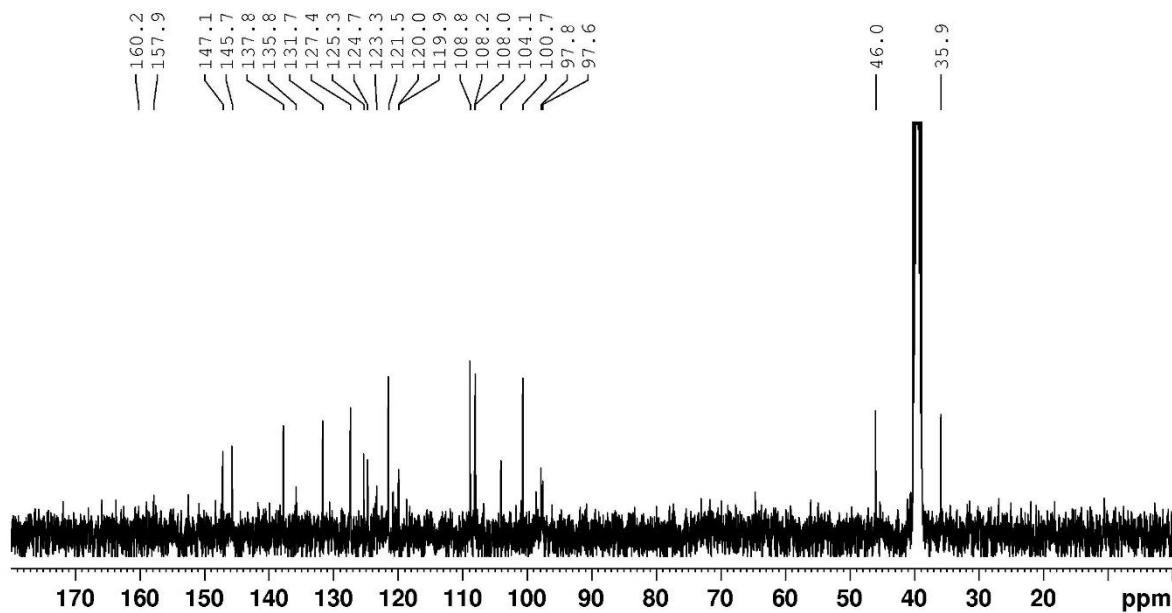
**Figure S38.** 3-(1-(2-(Benzo[*d*][1,3]dioxol-5-yl)ethyl)-1*H*-imidazol-5-yl)-6-fluoro-1*H*-indole (**38**)



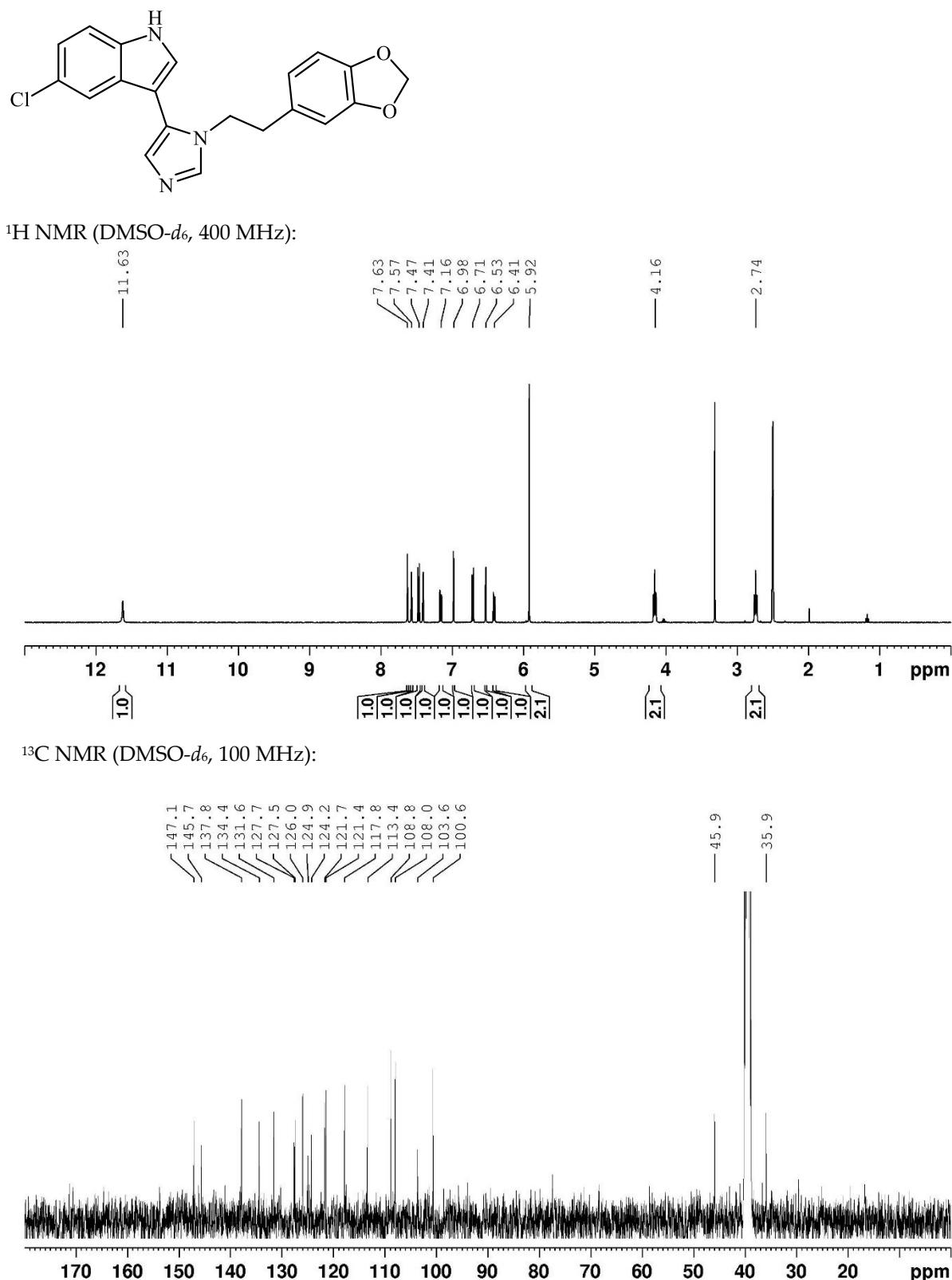
<sup>1</sup>H NMR (DMSO-*d*<sub>6</sub>, 400 MHz):



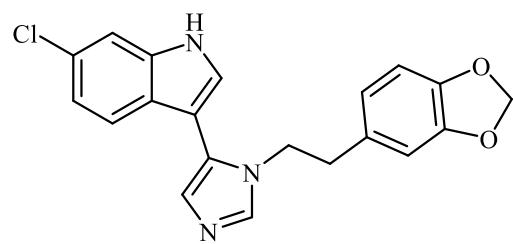
<sup>13</sup>C NMR (DMSO-*d*<sub>6</sub>, 100 MHz):



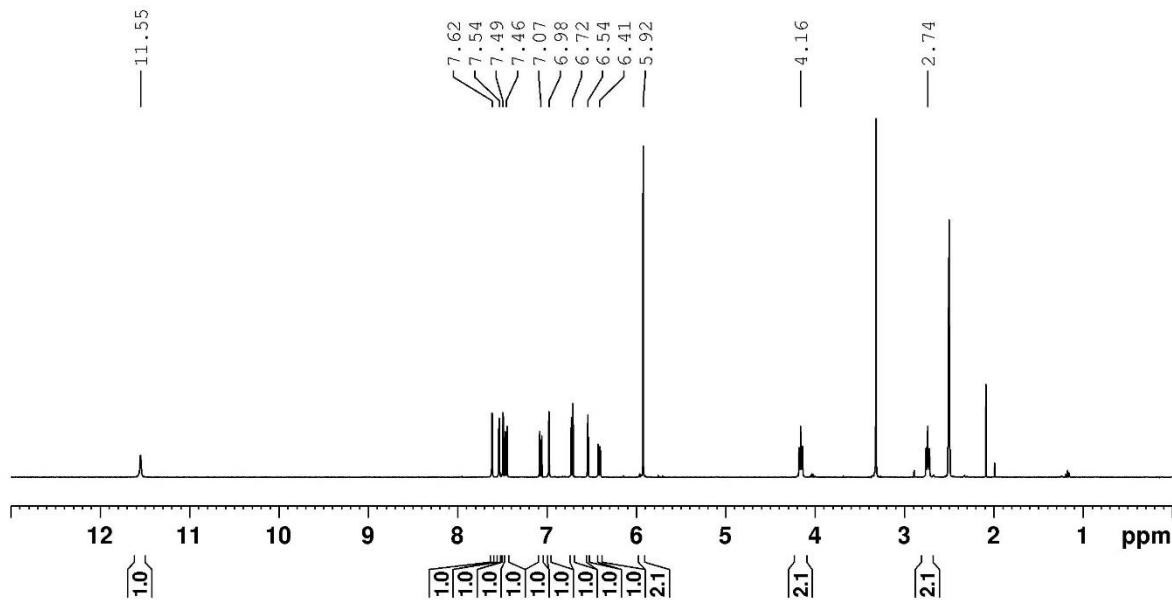
**Figure S39.** 3-(1-(2-(Benzo[*d*][1,3]dioxol-5-yl)ethyl)-1*H*-imidazol-5-yl)-5-chloro-1*H*-indole (**39**)



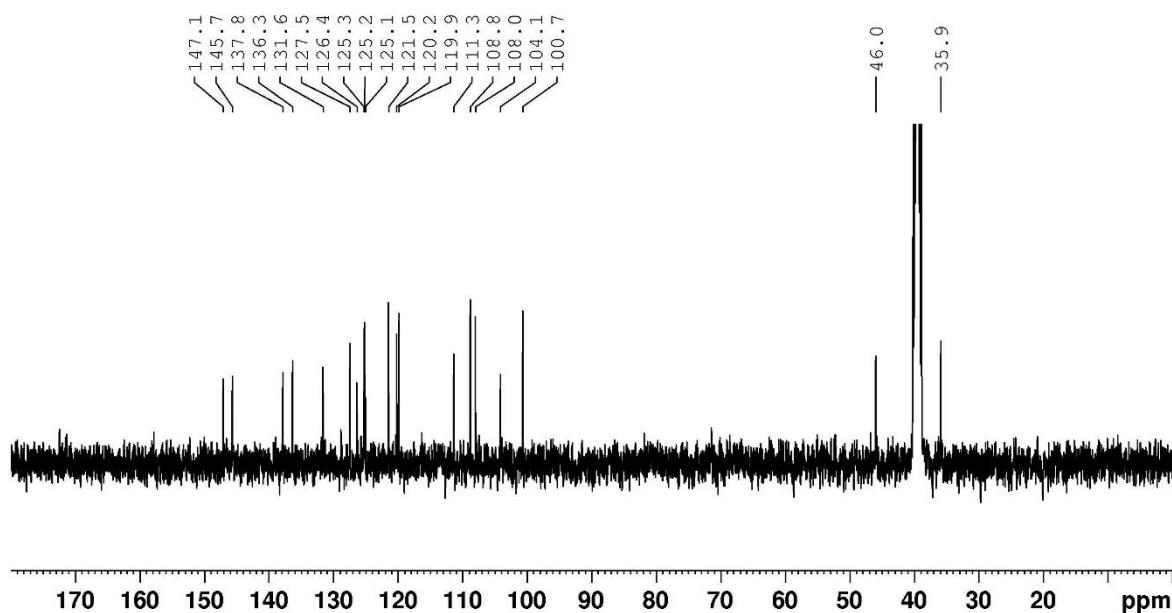
**Figure S40.** 3-(1-(2-(Benzo[*d*][1,3]dioxol-5-yl)ethyl)-1*H*-imidazol-5-yl)-6-chloro-1*H*-indole (**40**)



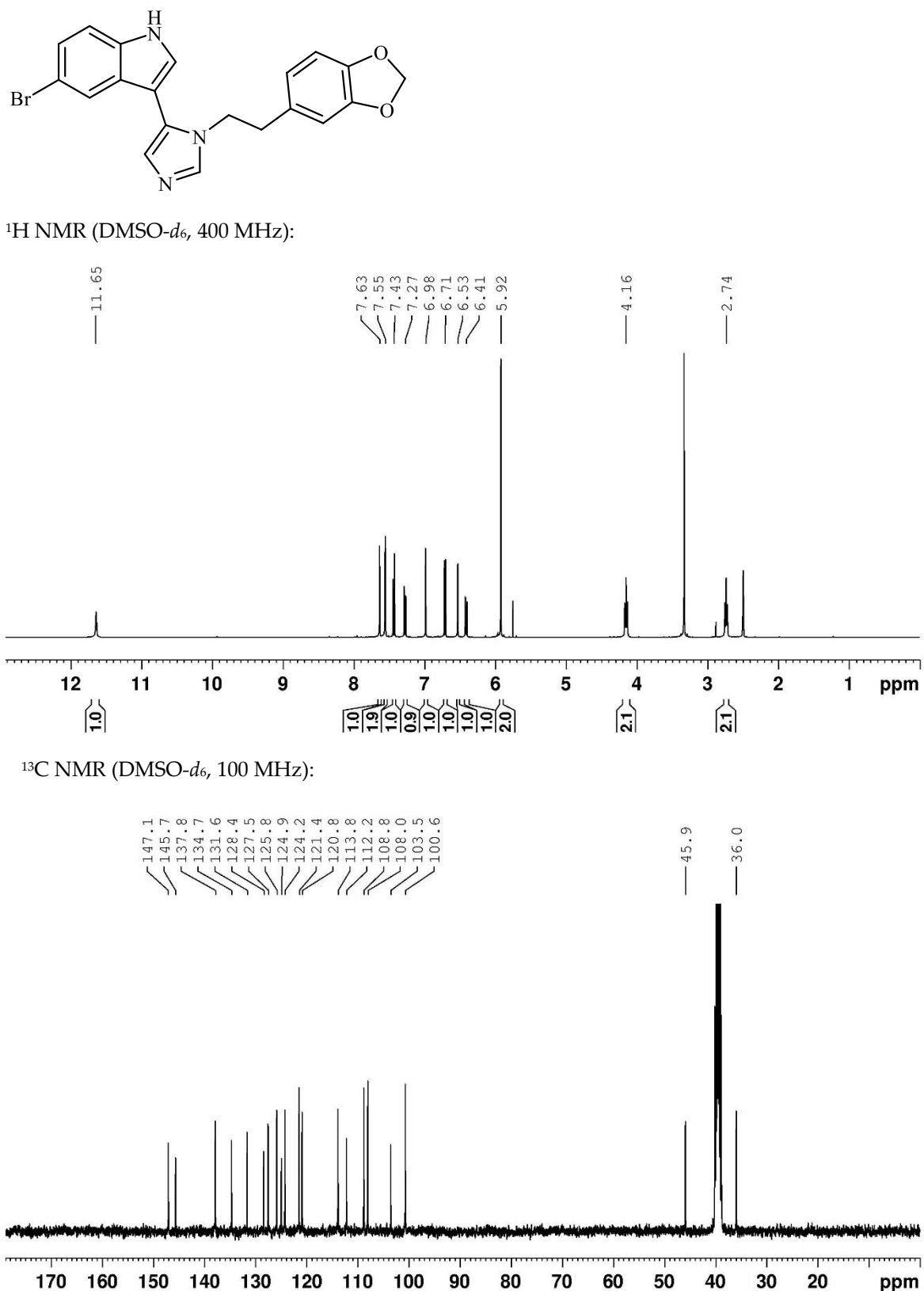
<sup>1</sup>H NMR (DMSO-*d*<sub>6</sub>, 400 MHz):



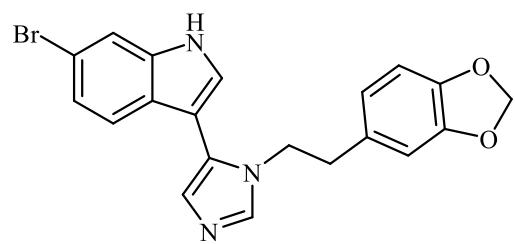
<sup>13</sup>C NMR (DMSO-*d*<sub>6</sub>, 100 MHz):



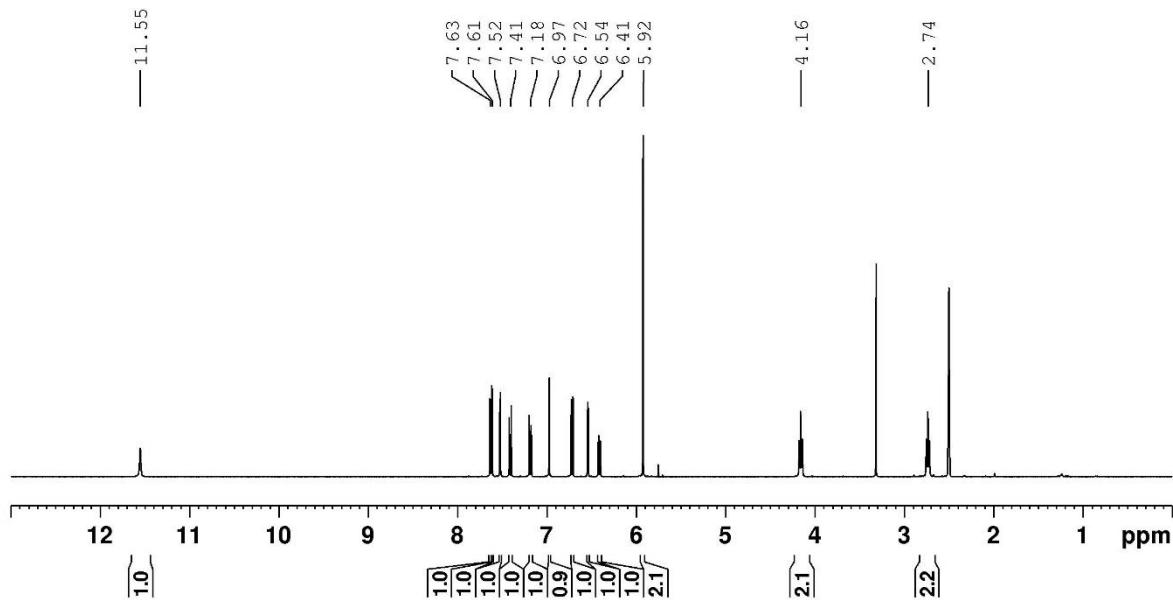
**Figure S41.** 3-(1-(2-(Benzo[*d*][1,3]dioxol-5-yl)ethyl)-1*H*-imidazol-5-yl)-5-bromo-1*H*-indole (**41**)



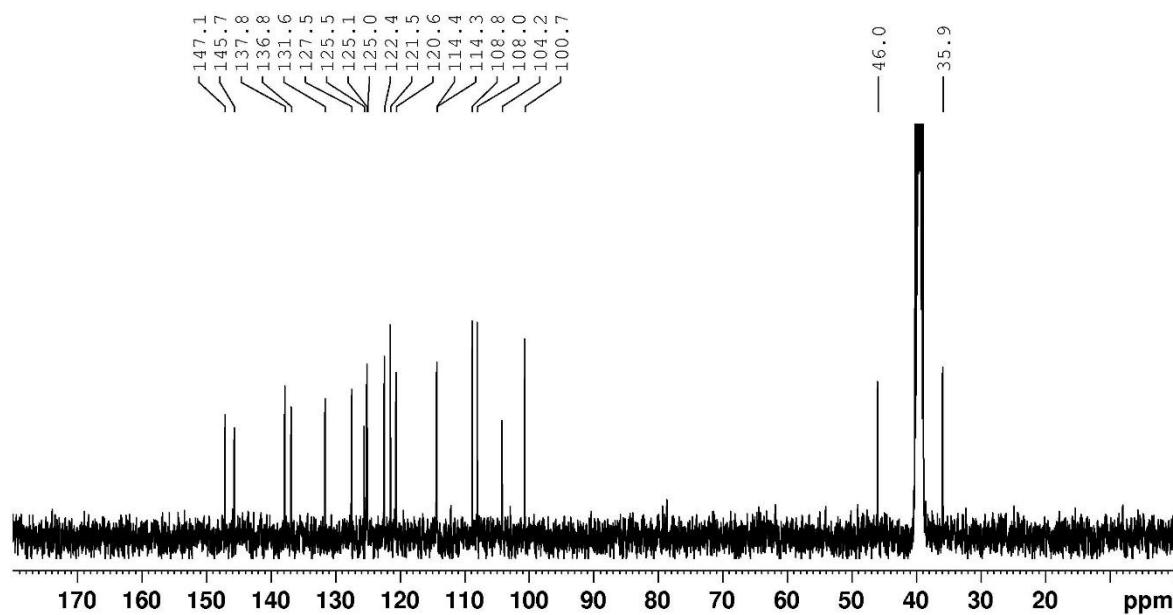
**Figure S42.** 3-(1-(2-(Benzo[*d*][1,3]dioxol-5-yl)ethyl)-1*H*-imidazol-5-yl)-6-bromo-1*H*-indole (**42**)



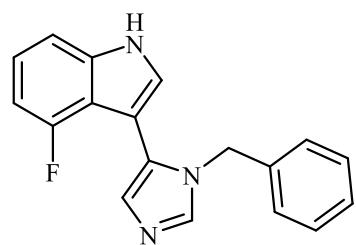
<sup>1</sup>H NMR (DMSO-*d*<sub>6</sub>, 400 MHz):



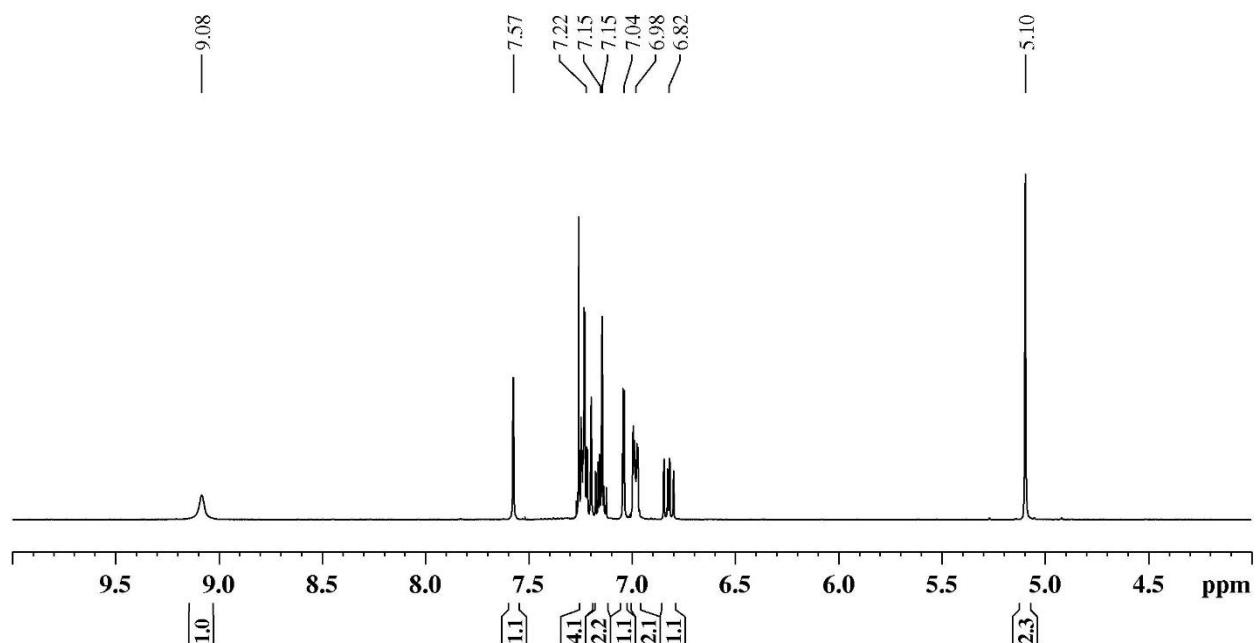
<sup>13</sup>C NMR (DMSO-*d*<sub>6</sub>, 100 MHz):



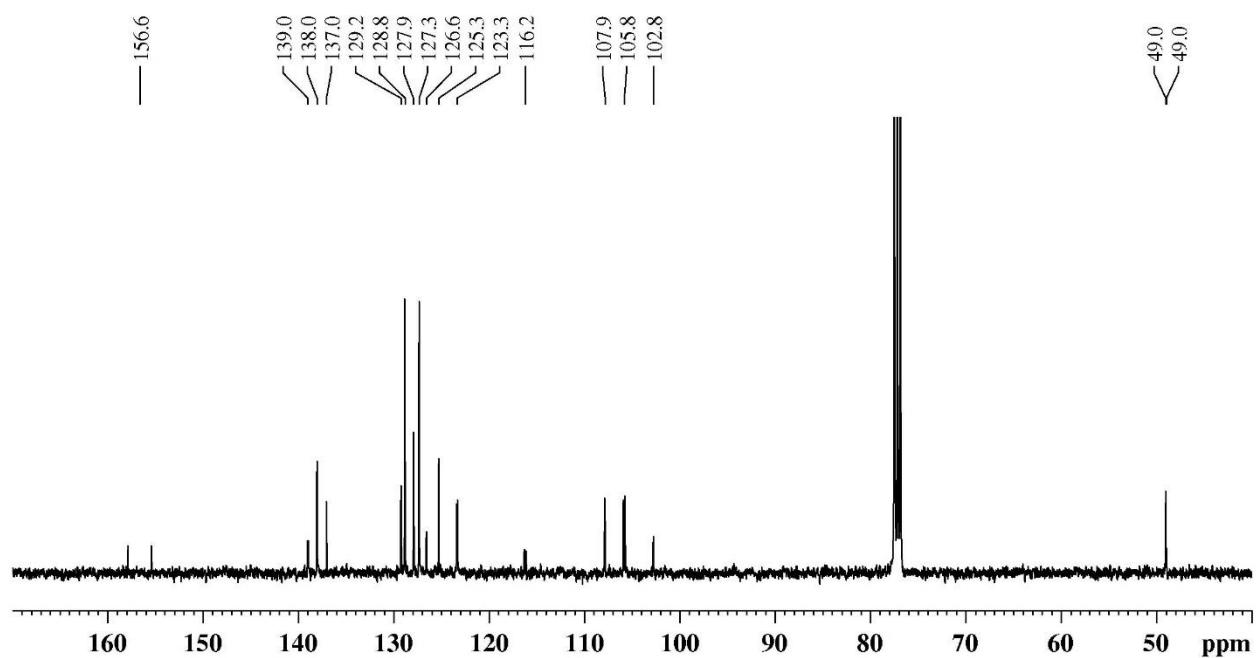
*Figure S43.* 3-(1-Benzyl-1*H*-imidazol-5-yl)-4-fluoro-1*H*-indole (**43**)



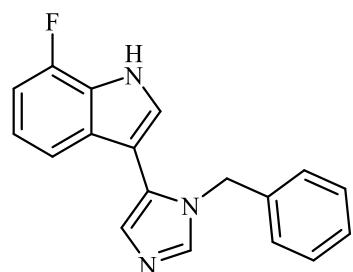
<sup>1</sup>H NMR (CDCl<sub>3</sub>, 400 MHz):



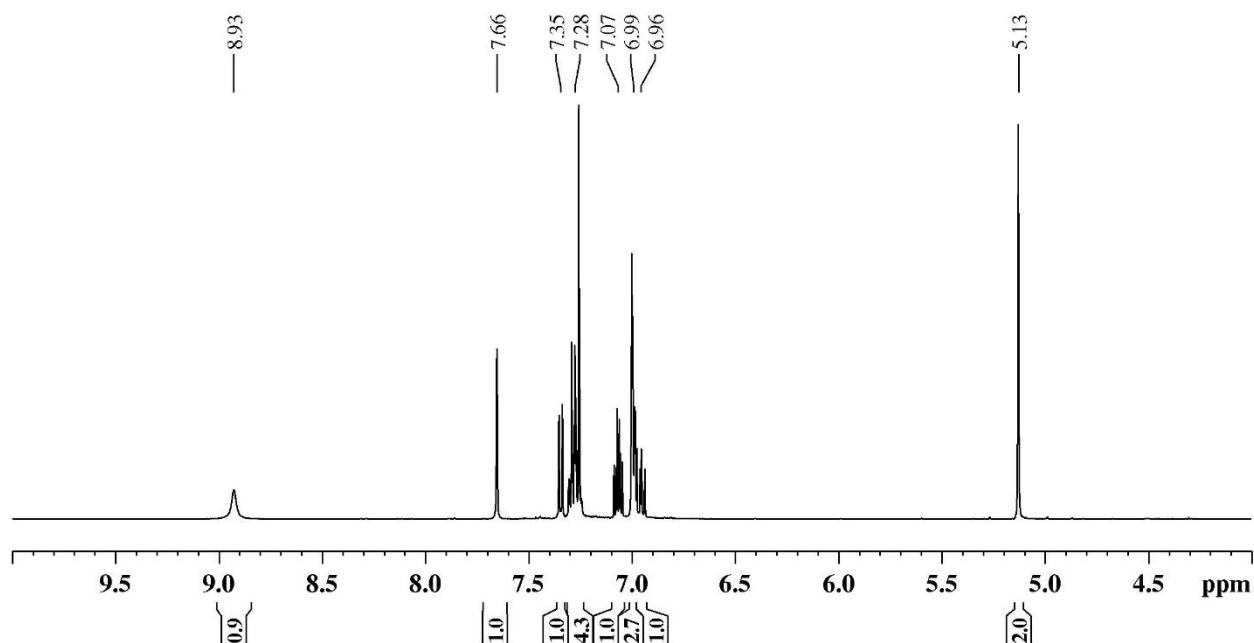
<sup>13</sup>C NMR (CDCl<sub>3</sub>, 100 MHz):



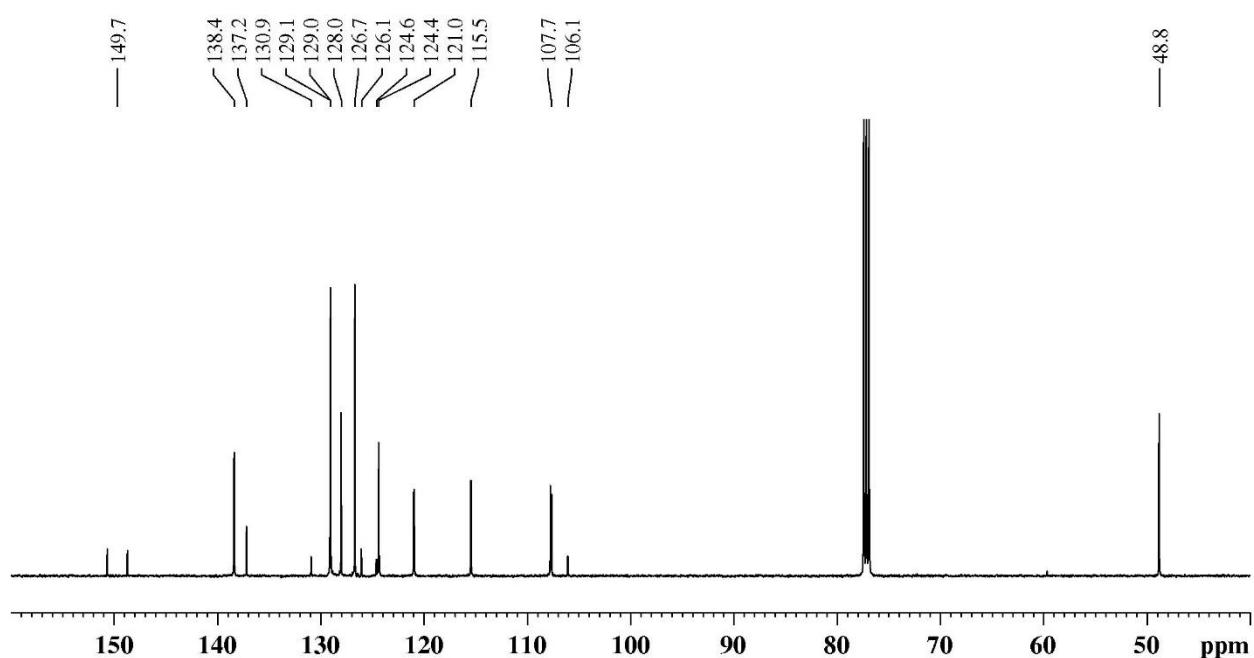
**Figure S44.** 3-(1-Benzyl-1*H*-imidazol-5-yl)-7-fluoro-1*H*-indole (**44**)



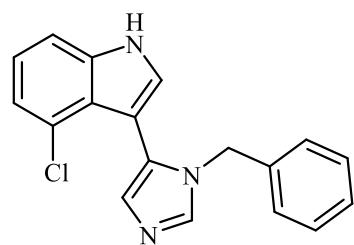
<sup>1</sup>H NMR (CDCl<sub>3</sub>, 500 MHz):



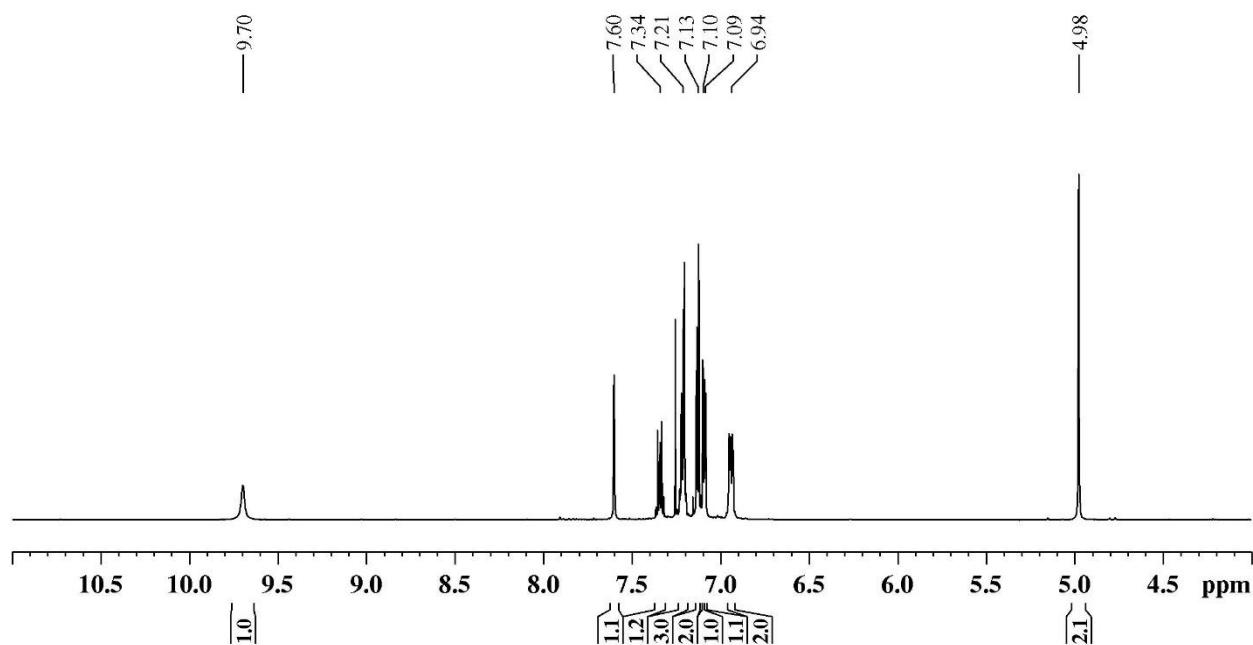
<sup>13</sup>C NMR (CDCl<sub>3</sub>, 125 MHz):



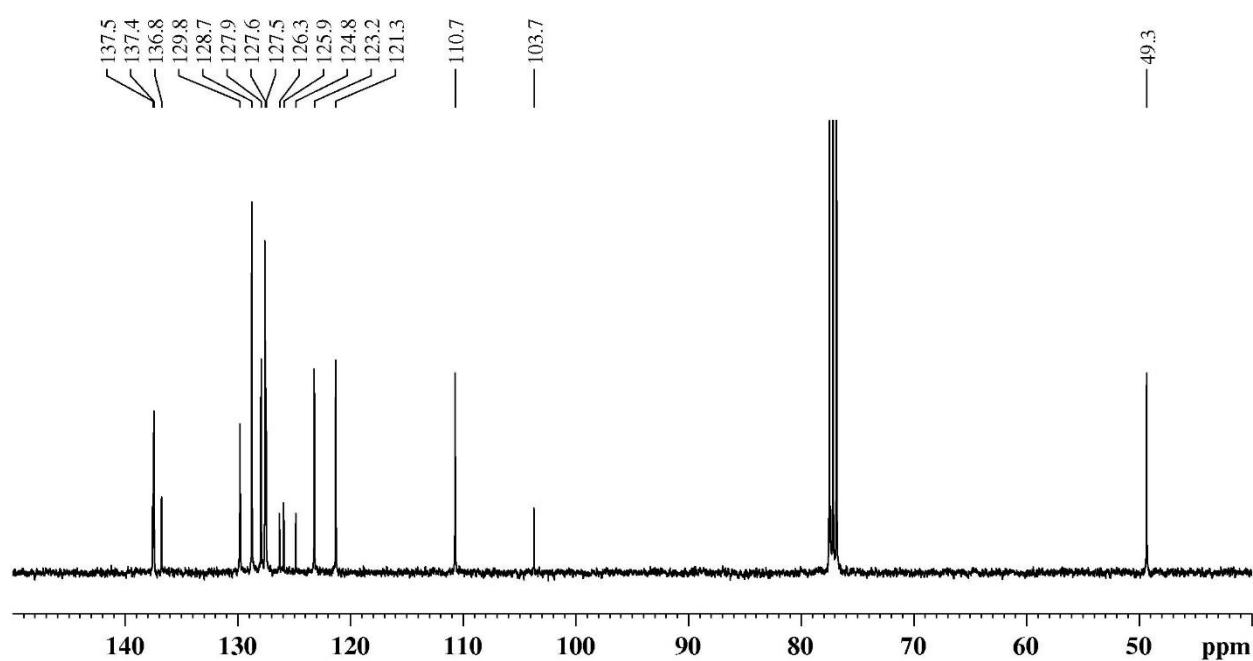
**Figure S45.** 3-(1-Benzyl-1*H*-imidazol-5-yl)-4-chloro-1*H*-indole (**45**)



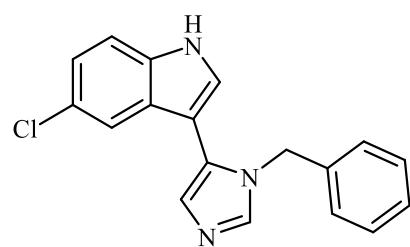
<sup>1</sup>H NMR (CDCl<sub>3</sub>, 400 MHz):



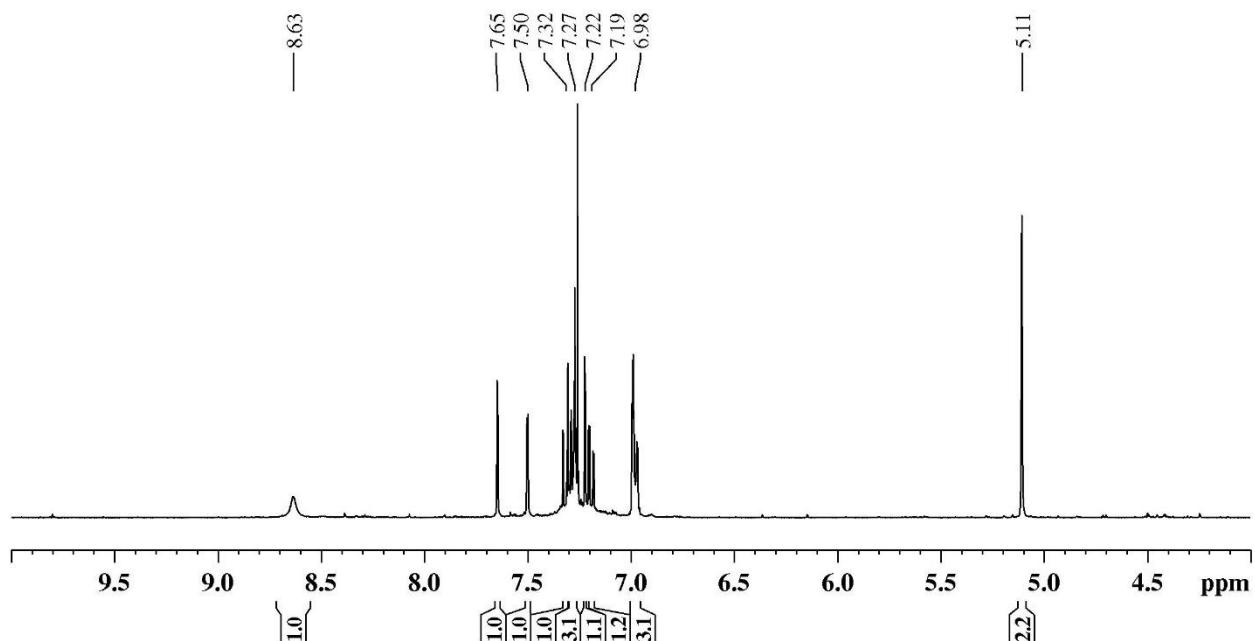
<sup>13</sup>C NMR (CDCl<sub>3</sub>, 100 MHz):



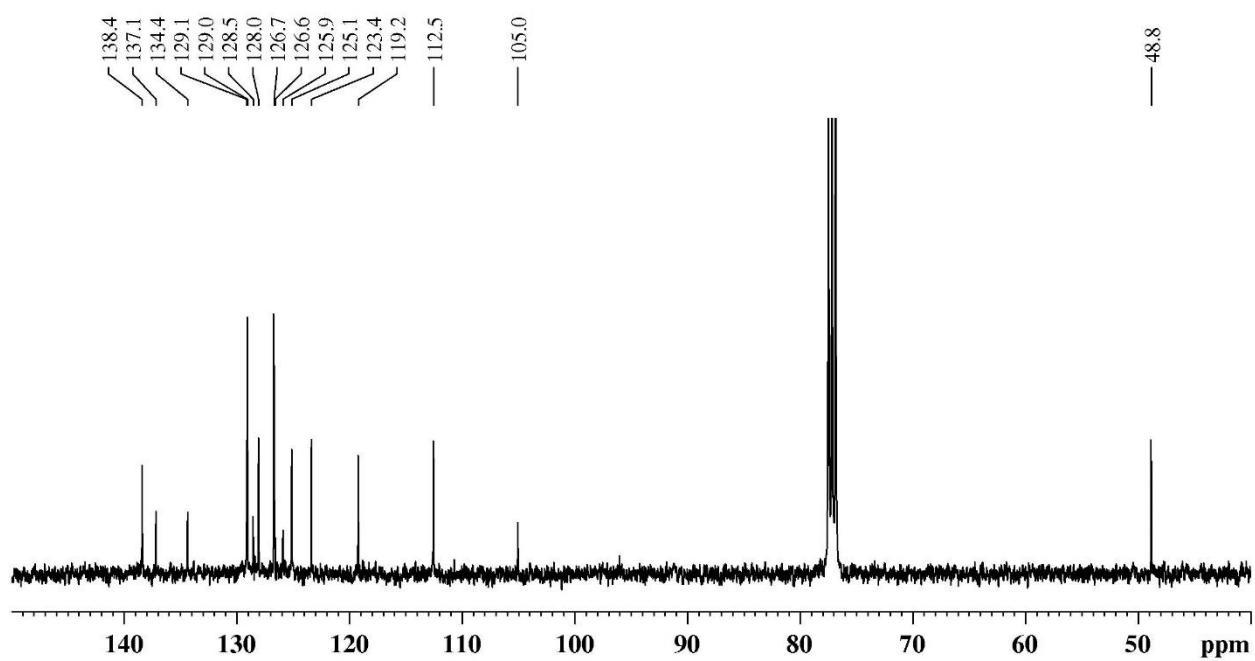
**Figure S46.** 3-(1-Benzyl-1*H*-imidazol-5-yl)-5-chloro-1*H*-indole (**46**)



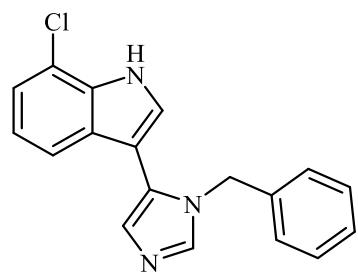
<sup>1</sup>H NMR (CDCl<sub>3</sub>, 400 MHz):



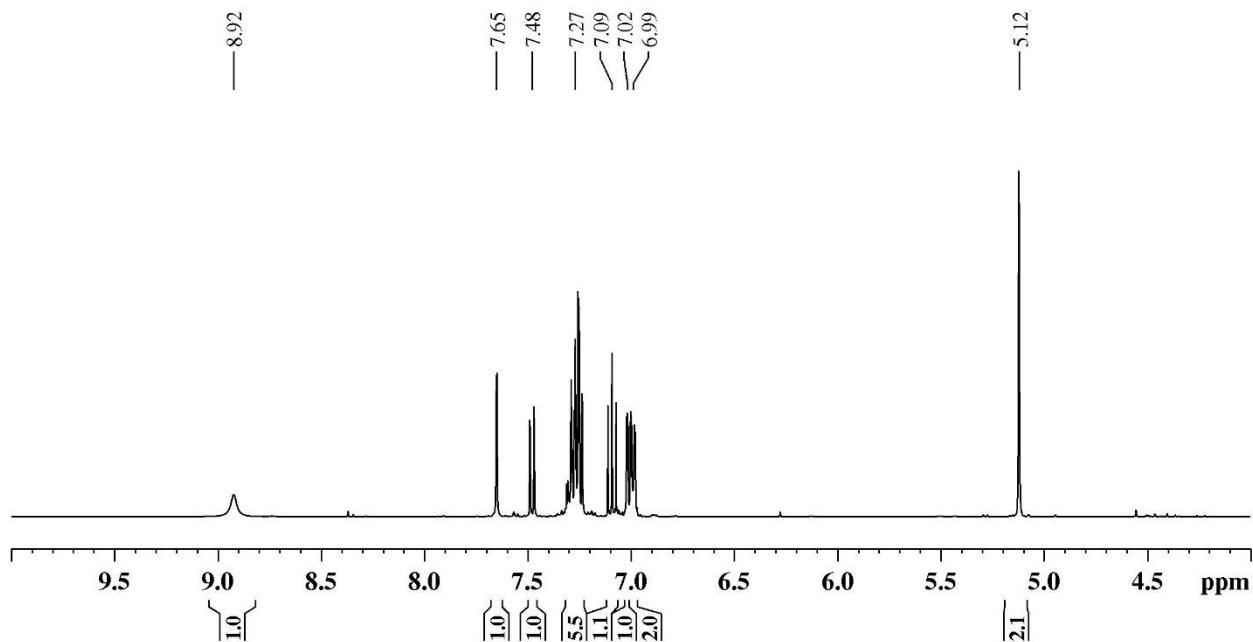
<sup>13</sup>C NMR (CDCl<sub>3</sub>, 100 MHz):



**Figure S47.** 3-(1-Benzyl-1*H*-imidazol-5-yl)-7-chloro-1*H*-indole (**47**)



<sup>1</sup>H NMR (CDCl<sub>3</sub>, 400 MHz):



<sup>13</sup>C NMR (CDCl<sub>3</sub>, 100 MHz):

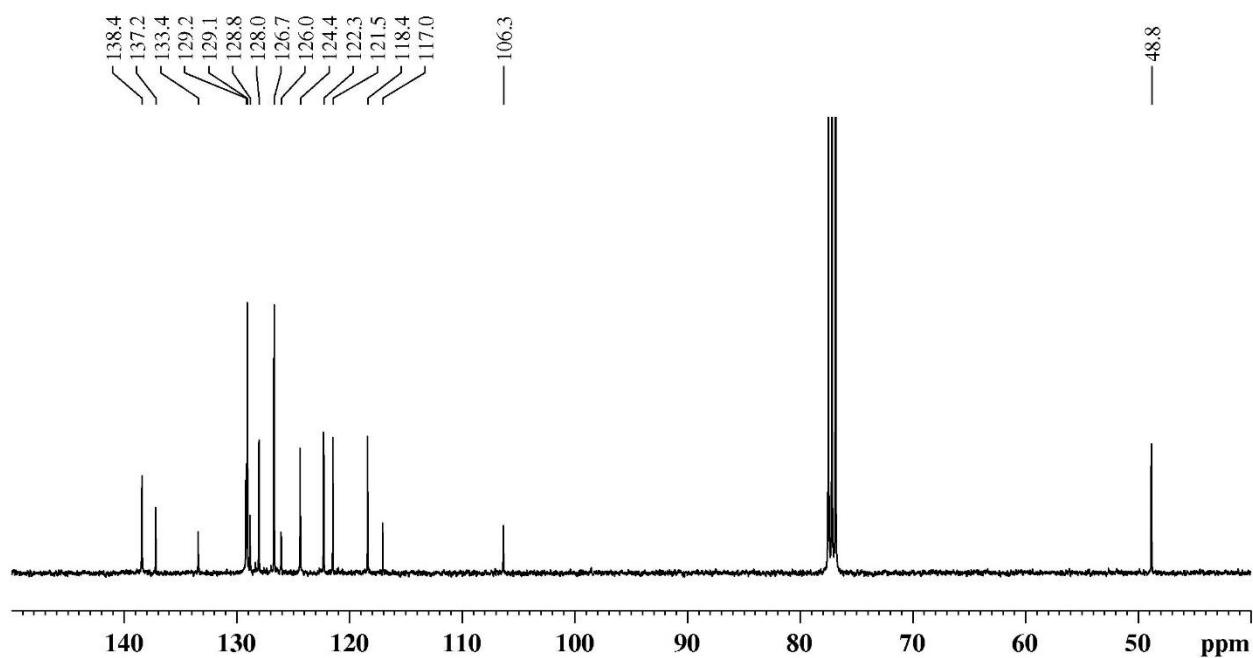
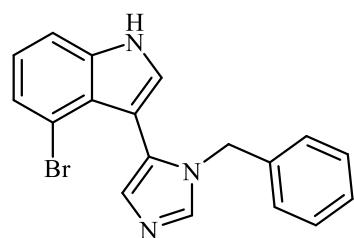
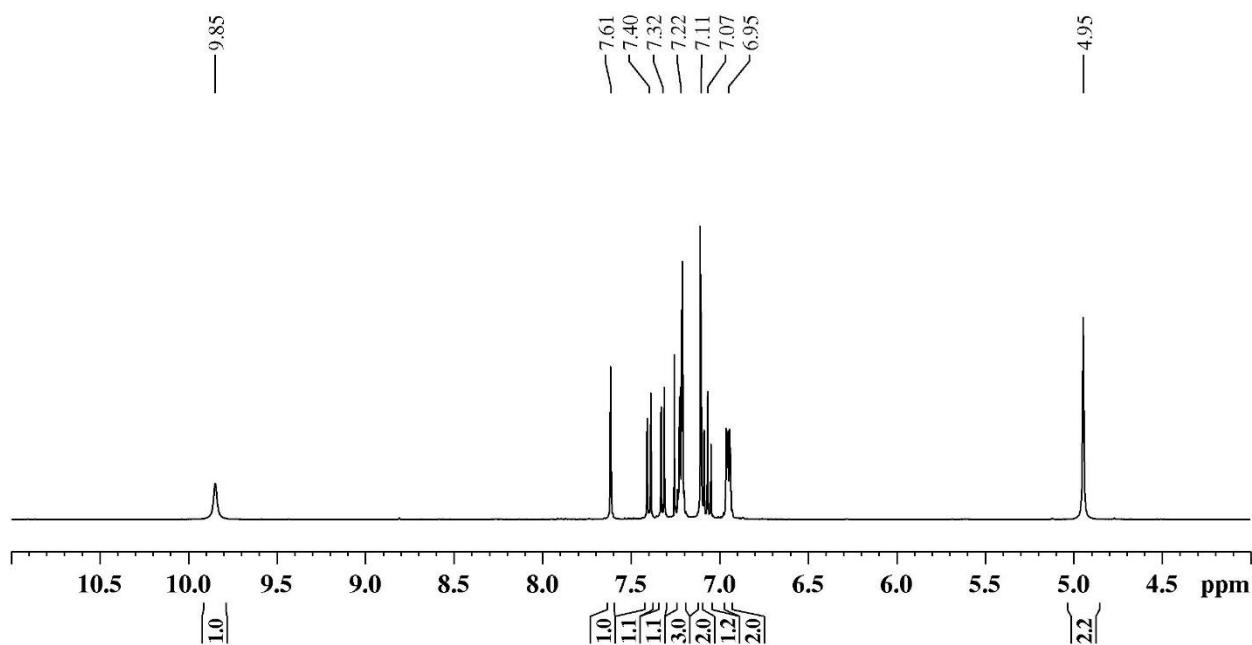


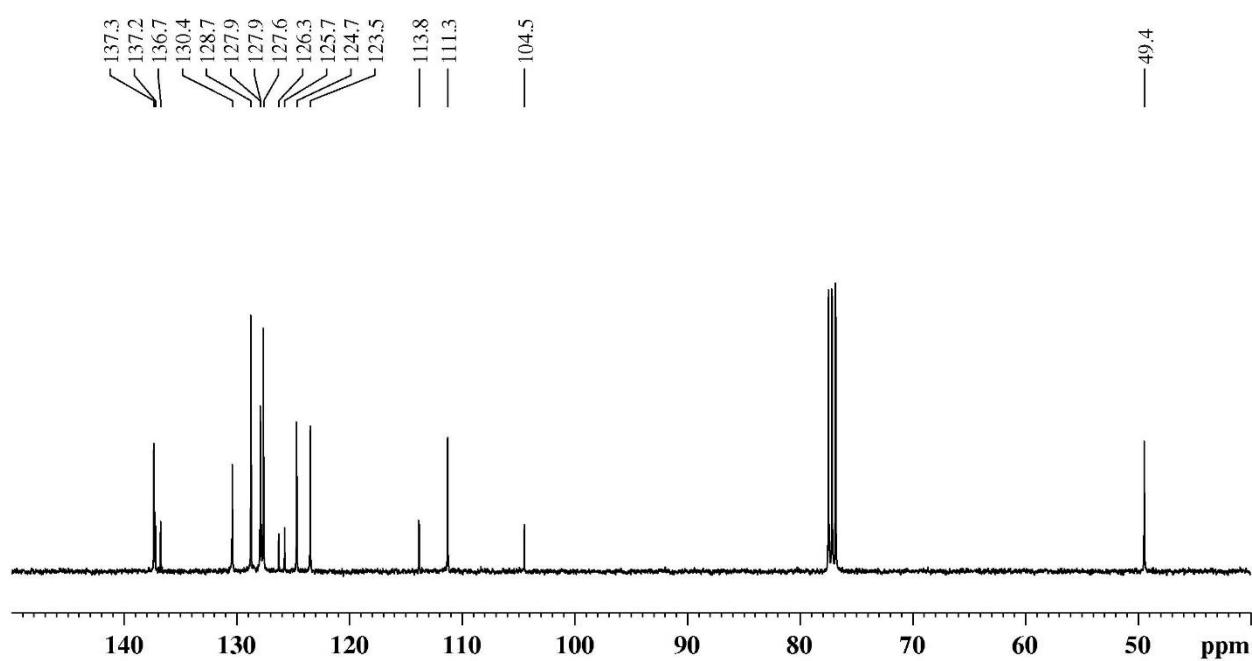
Figure S48. 3-(1-Benzyl-1*H*-imidazol-5-yl)-4-bromo-1*H*-indole (**48**)



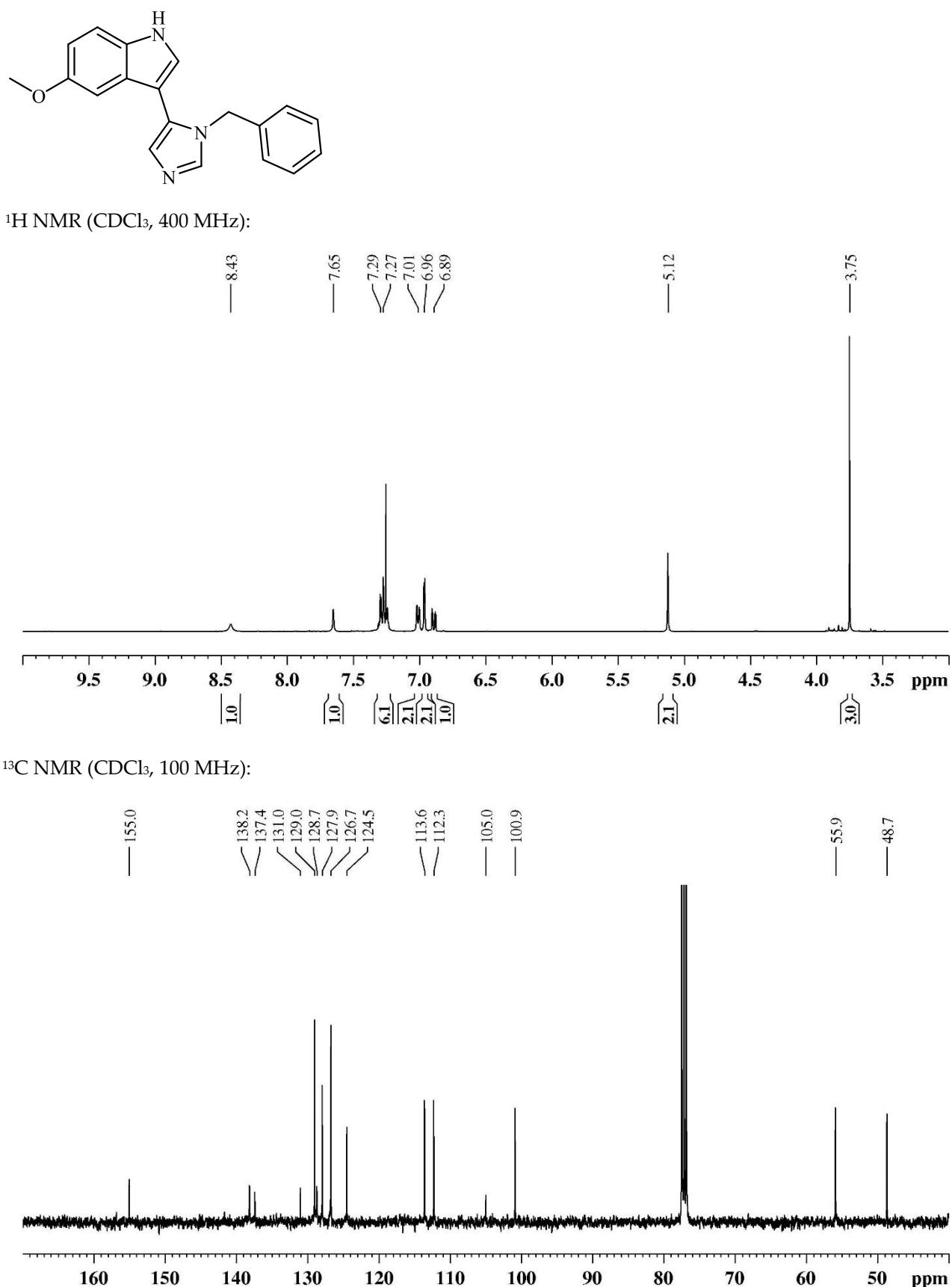
<sup>1</sup>H NMR (CDCl<sub>3</sub>, 400 MHz):



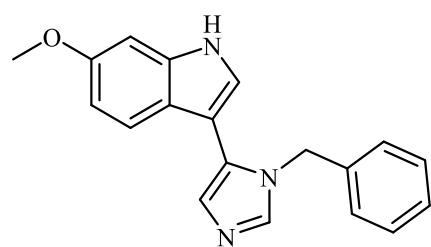
<sup>13</sup>C NMR (CDCl<sub>3</sub>, 100 MHz):



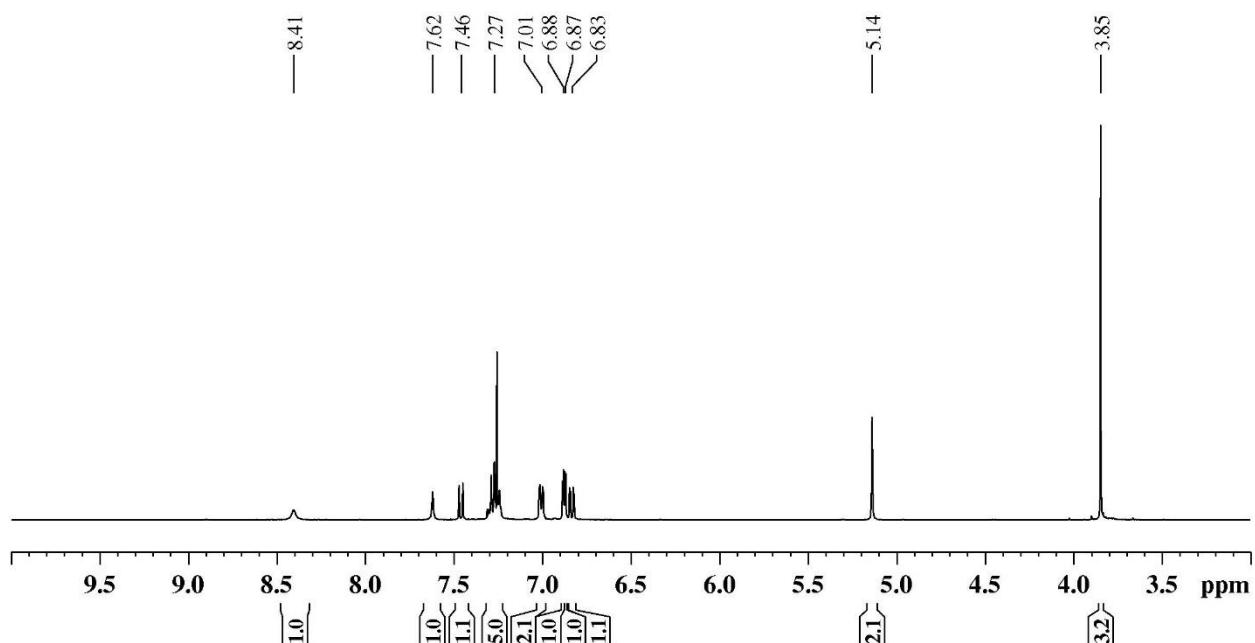
**Figure S49.** 3-(1-Benzyl-1*H*-imidazol-5-yl)-5-methoxy-1*H*-indole (**49**)



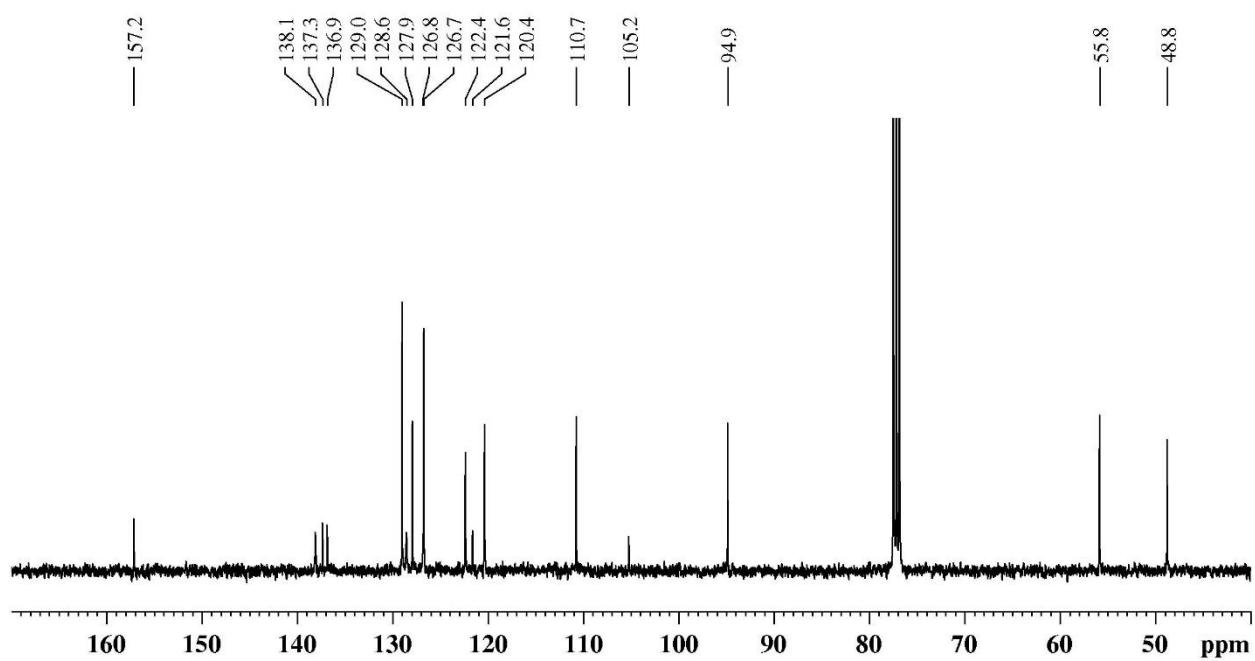
*Figure S50.* 3-(1-Benzyl-1*H*-imidazol-5-yl)-6-methoxy-1*H*-indole (**50**)



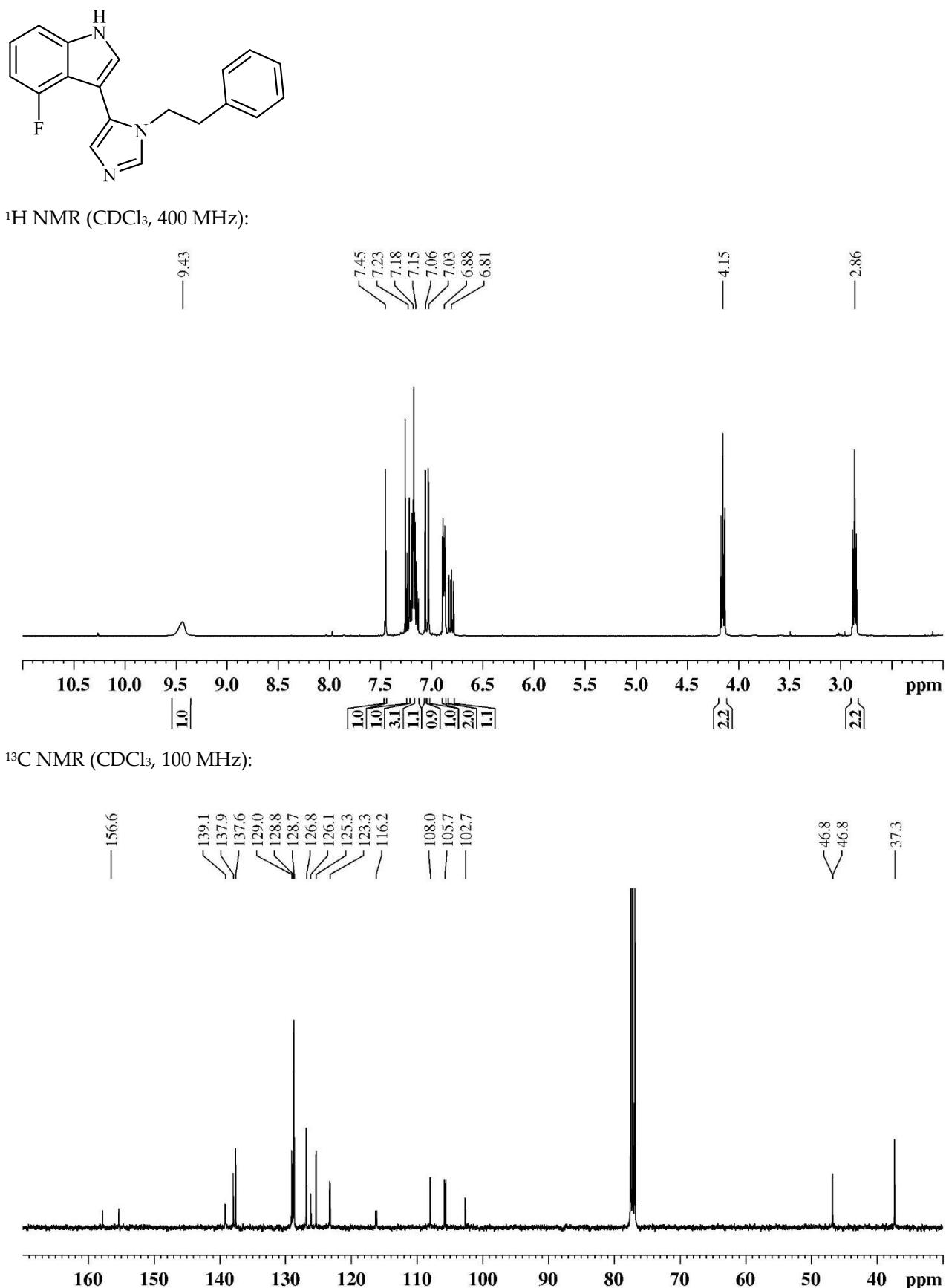
<sup>1</sup>H NMR (CDCl<sub>3</sub>, 400 MHz):



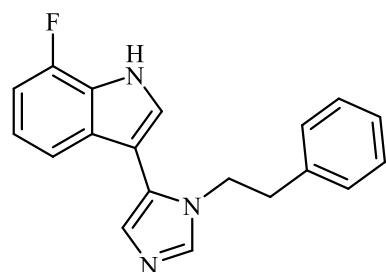
<sup>13</sup>C NMR (CDCl<sub>3</sub>, 100 MHz):



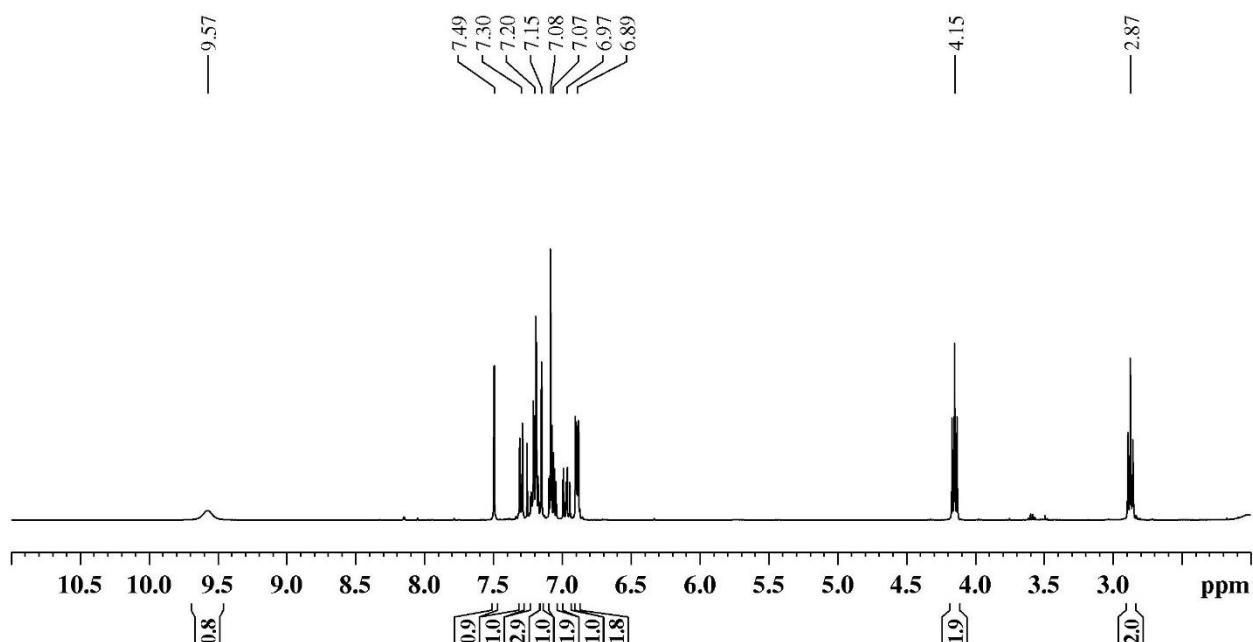
*Figure S51.* 4-Fluoro-3-(1-phenethyl-1*H*-imidazol-5-yl)-1*H*-indole (**51**)



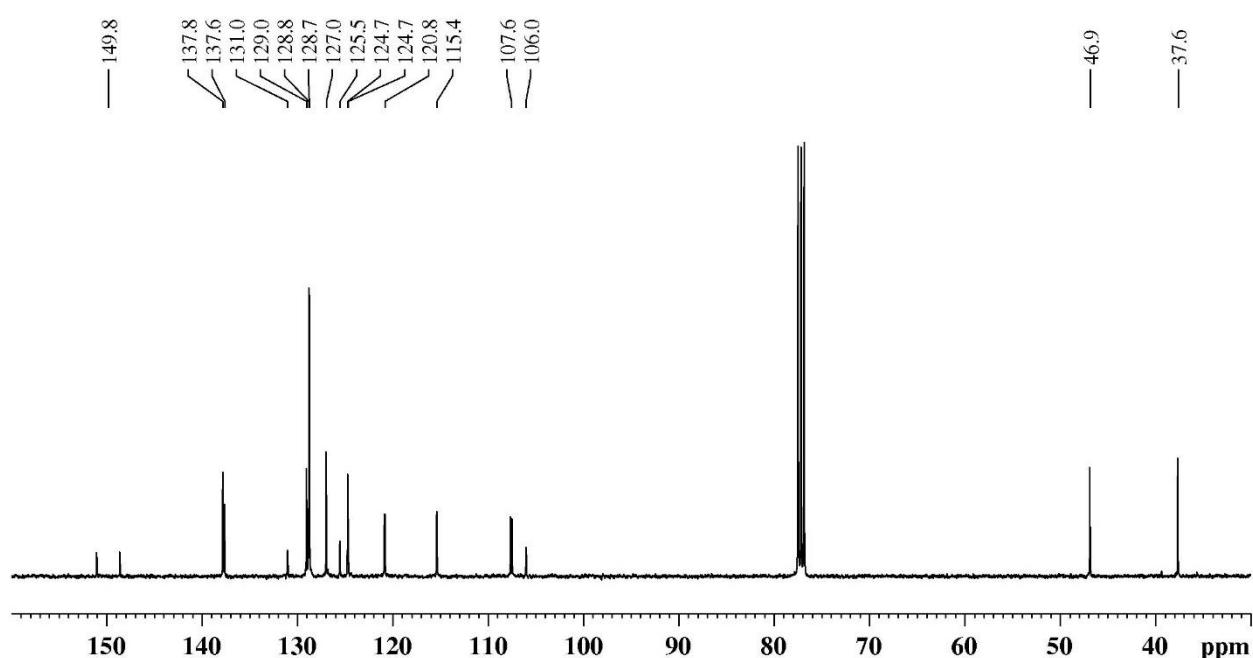
*Figure S52.* 7-Fluoro-3-(1-phenethyl-1*H*-imidazol-5-yl)-1*H*-indole (**52**)



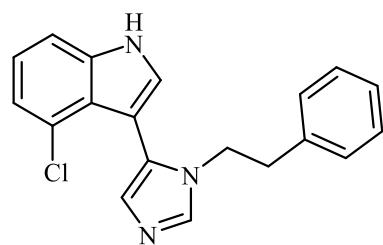
<sup>1</sup>H NMR (CDCl<sub>3</sub>, 400 MHz):



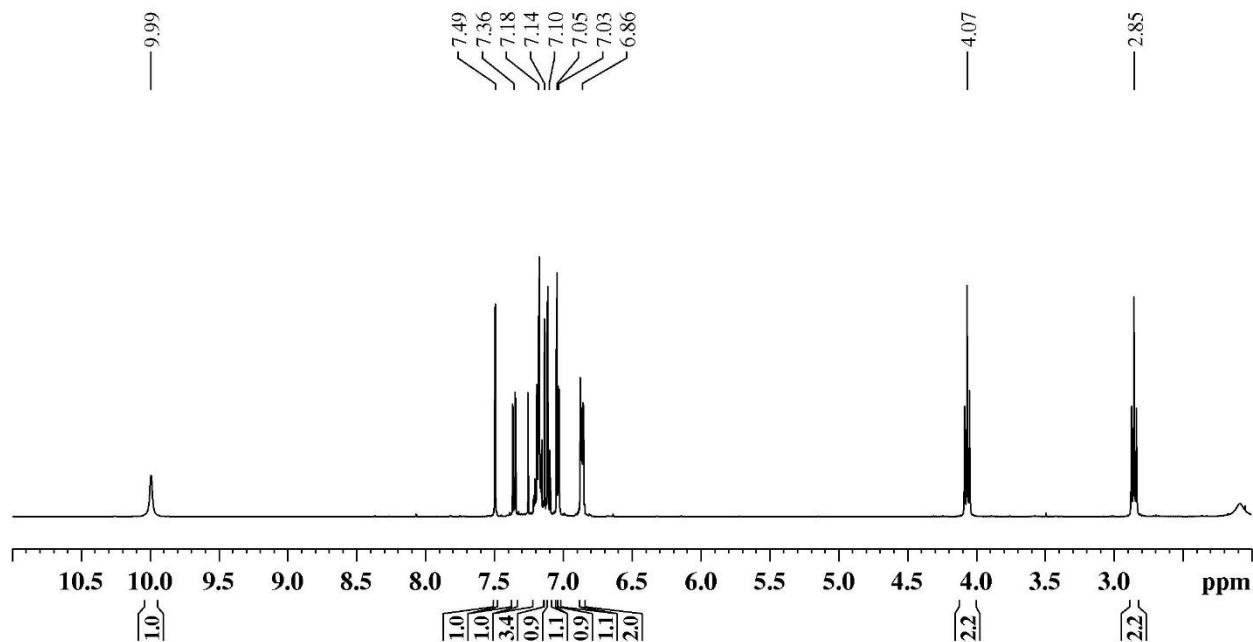
<sup>13</sup>C NMR (CDCl<sub>3</sub>, 100 MHz):



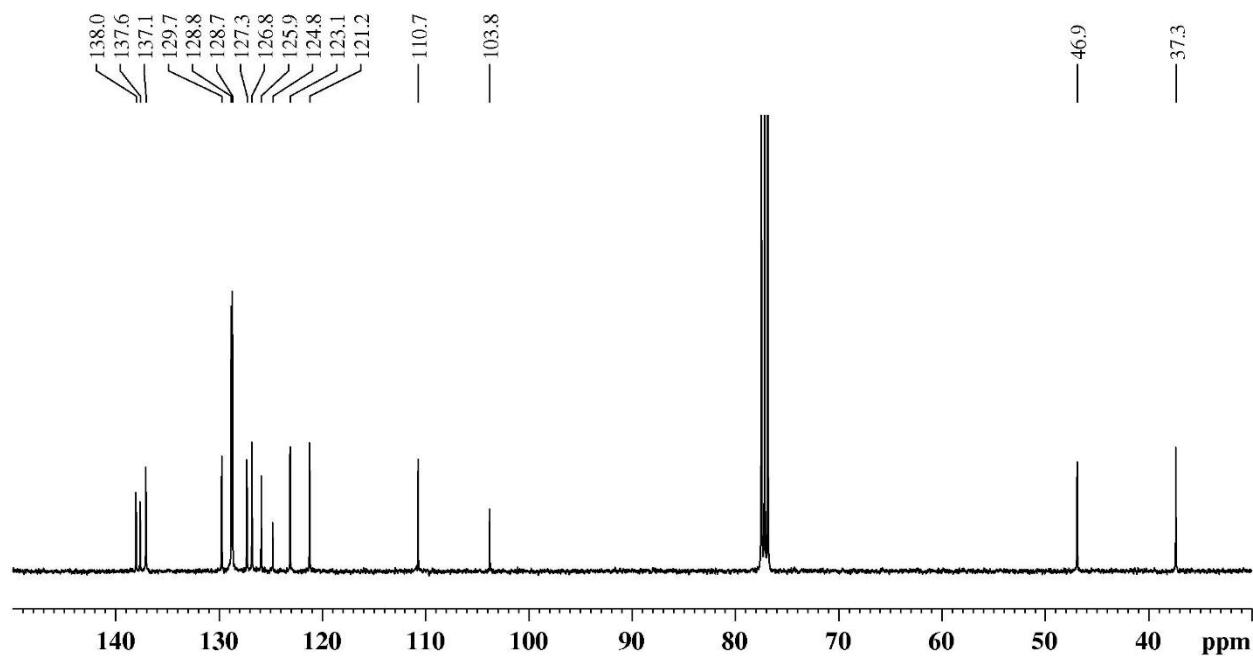
*Figure S53.* 4-Chloro-3-(1-phenethyl-1*H*-imidazol-5-yl)-1*H*-indole (**53**)



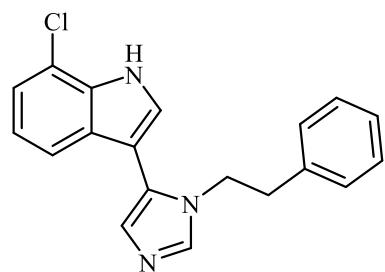
$^1\text{H}$  NMR ( $\text{CDCl}_3$ , 400 MHz):



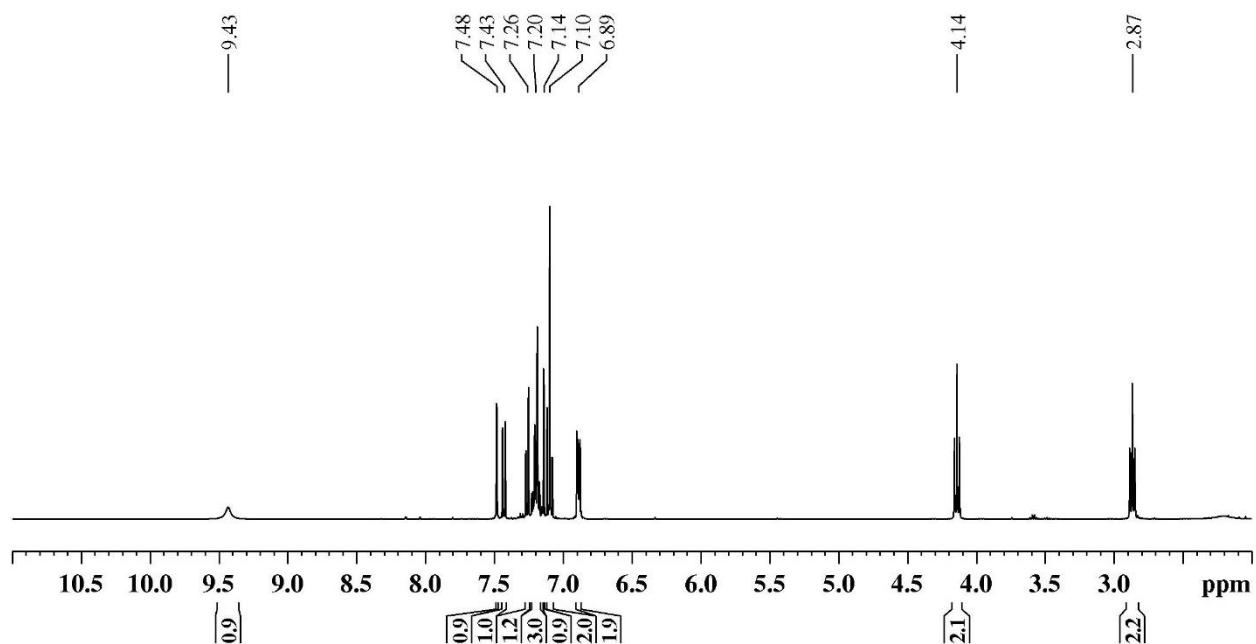
$^{13}\text{C}$  NMR ( $\text{CDCl}_3$ , 100 MHz):



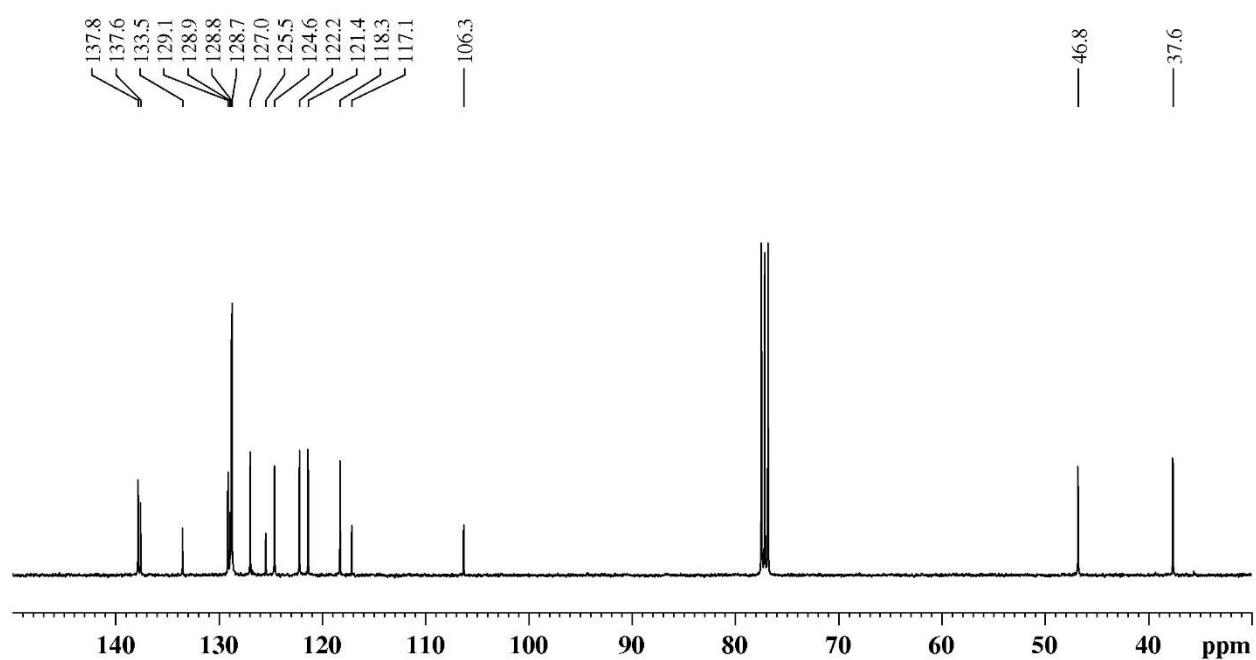
*Figure S54.* 7-Chloro-3-(1-phenethyl-1*H*-imidazol-5-yl)-1*H*-indole (**54**)



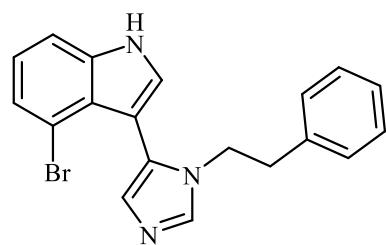
<sup>1</sup>H NMR (CDCl<sub>3</sub>, 400 MHz):



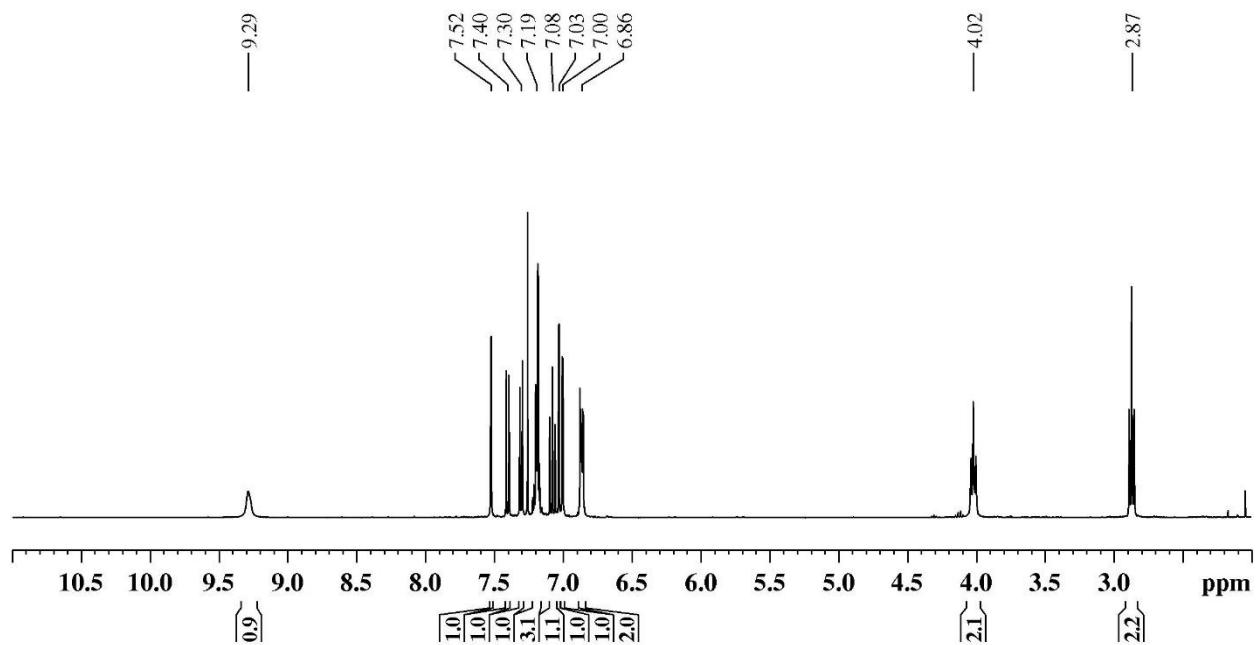
<sup>13</sup>C NMR (CDCl<sub>3</sub>, 100 MHz):



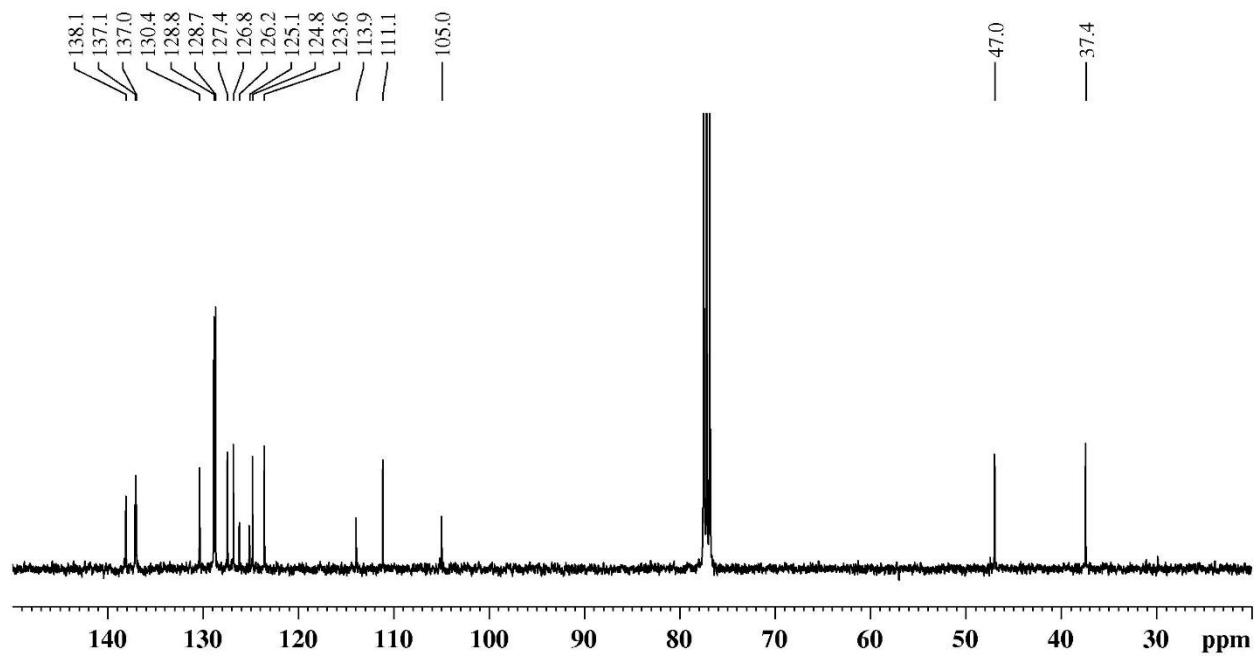
*Figure S55.* 4-Bromo-3-(1-phenethyl-1*H*-imidazol-5-yl)-1*H*-indole (**55**)



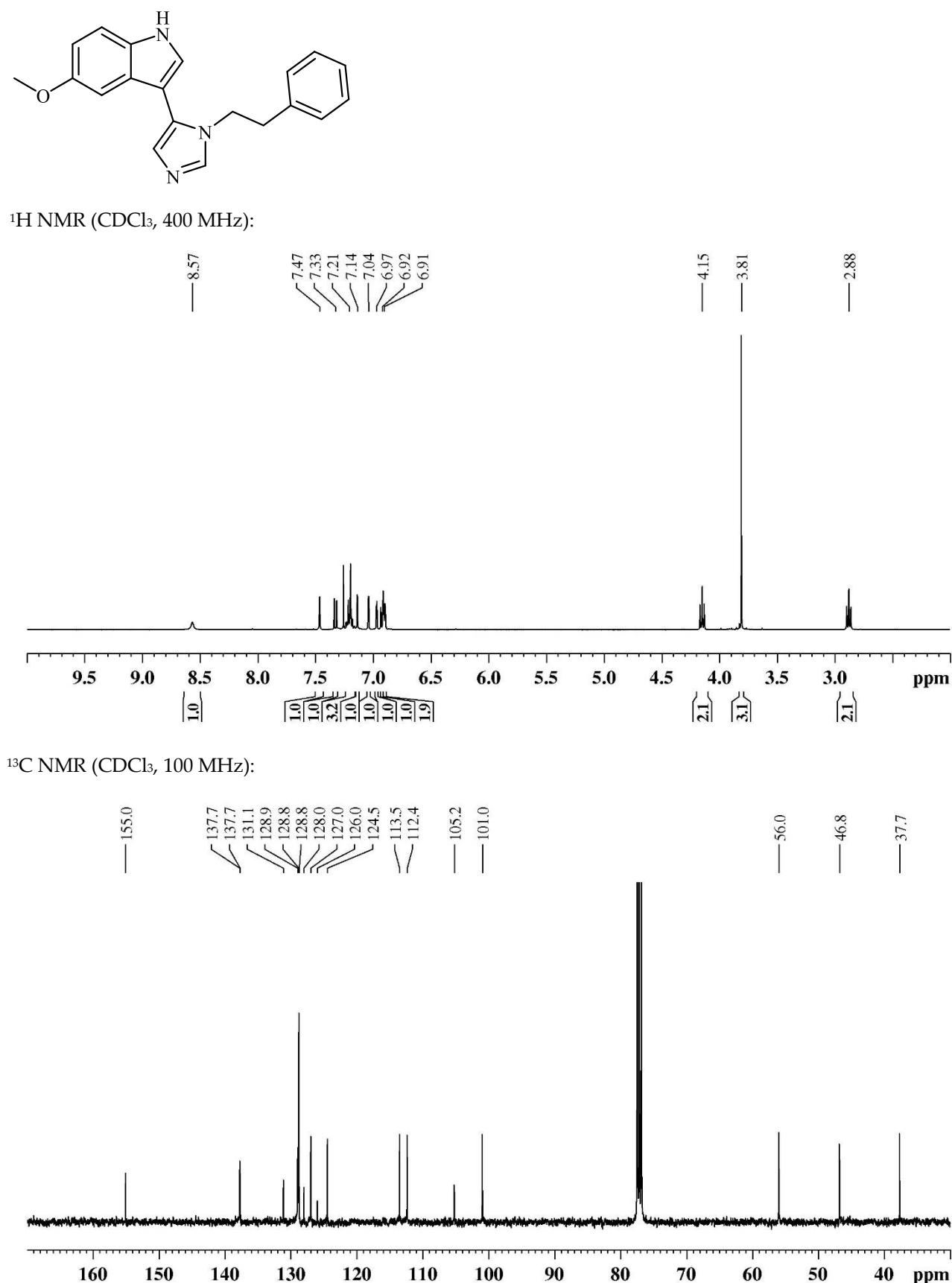
<sup>1</sup>H NMR (CDCl<sub>3</sub>, 400 MHz):



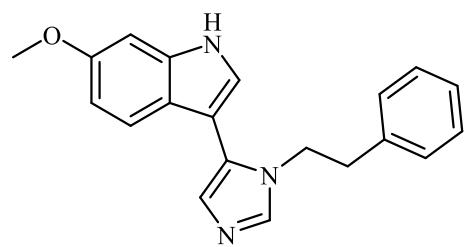
<sup>13</sup>C NMR (CDCl<sub>3</sub>, 100 MHz):



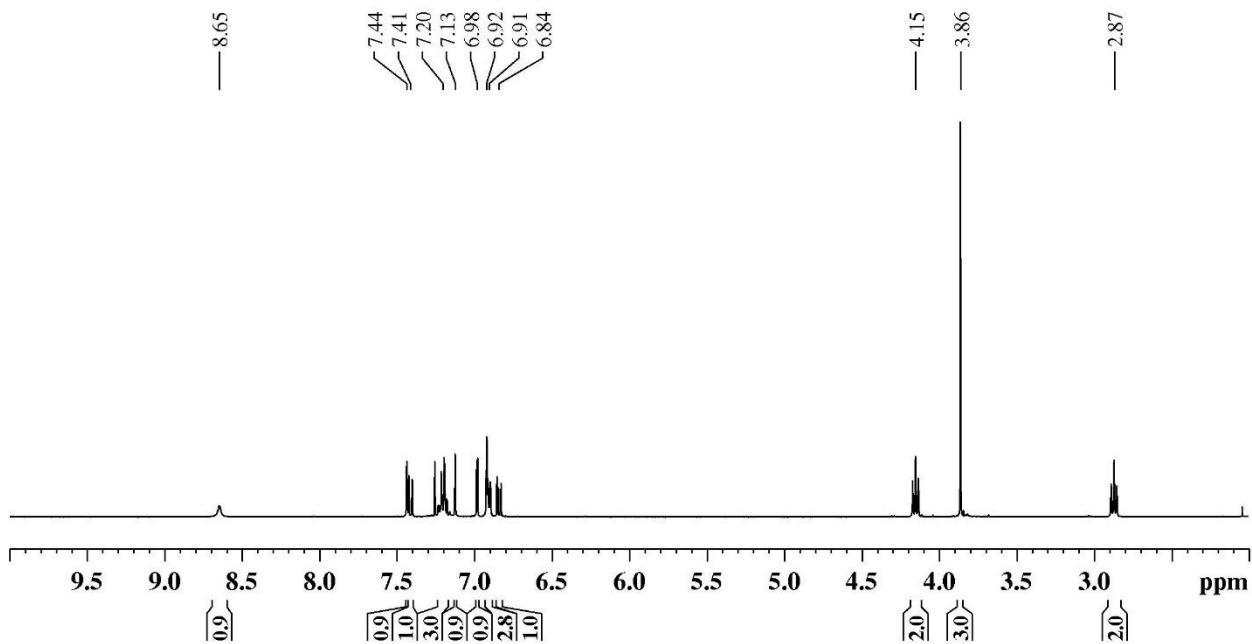
*Figure S56.* 5-Methoxy-3-(1-phenethyl-1*H*-imidazol-5-yl)-1*H*-indole (**56**)



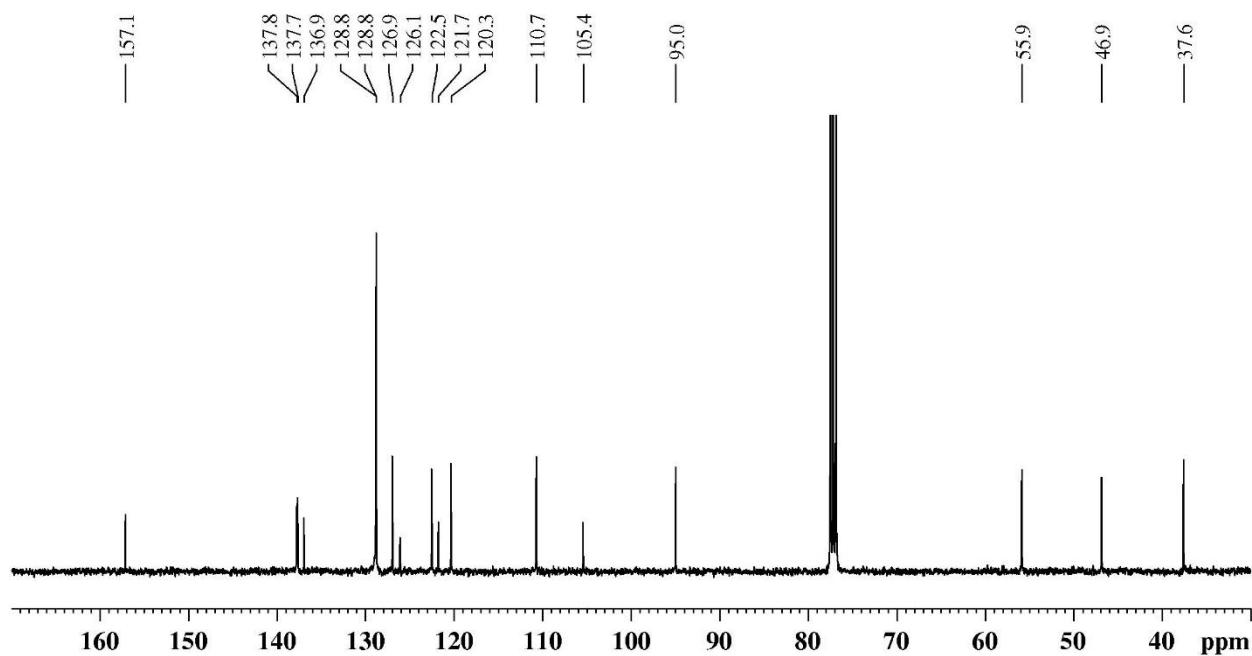
*Figure S57.* 6-Methoxy-3-(1-phenethyl-1*H*-imidazol-5-yl)-1*H*-indole (**57**)



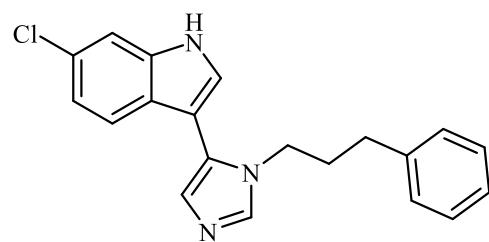
<sup>1</sup>H NMR (CDCl<sub>3</sub>, 400 MHz):



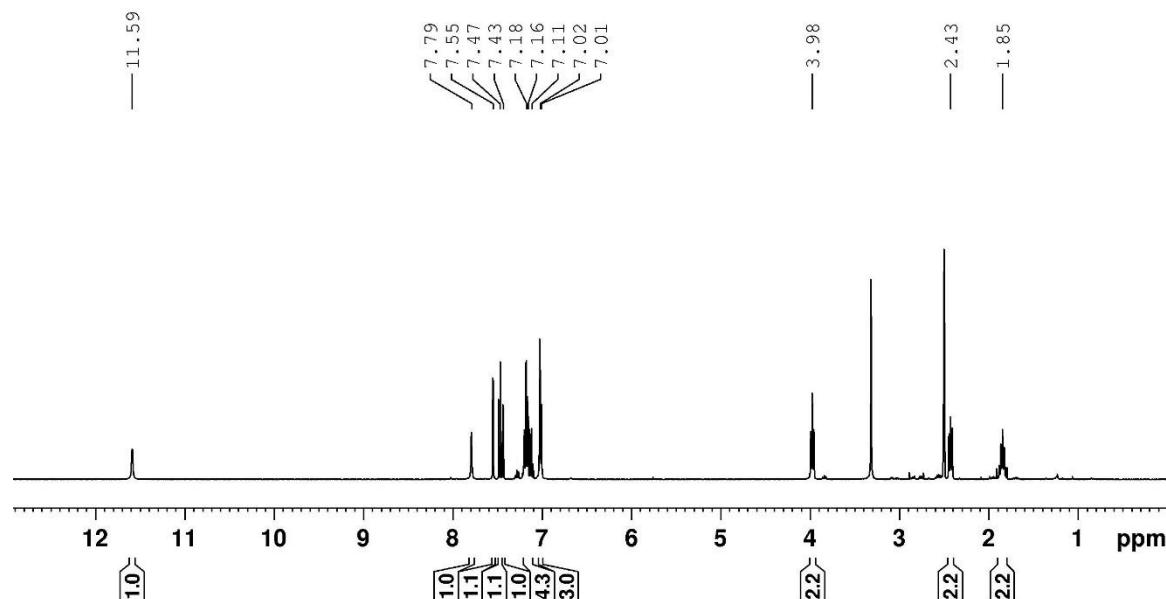
<sup>13</sup>C NMR (CDCl<sub>3</sub>, 100 MHz):



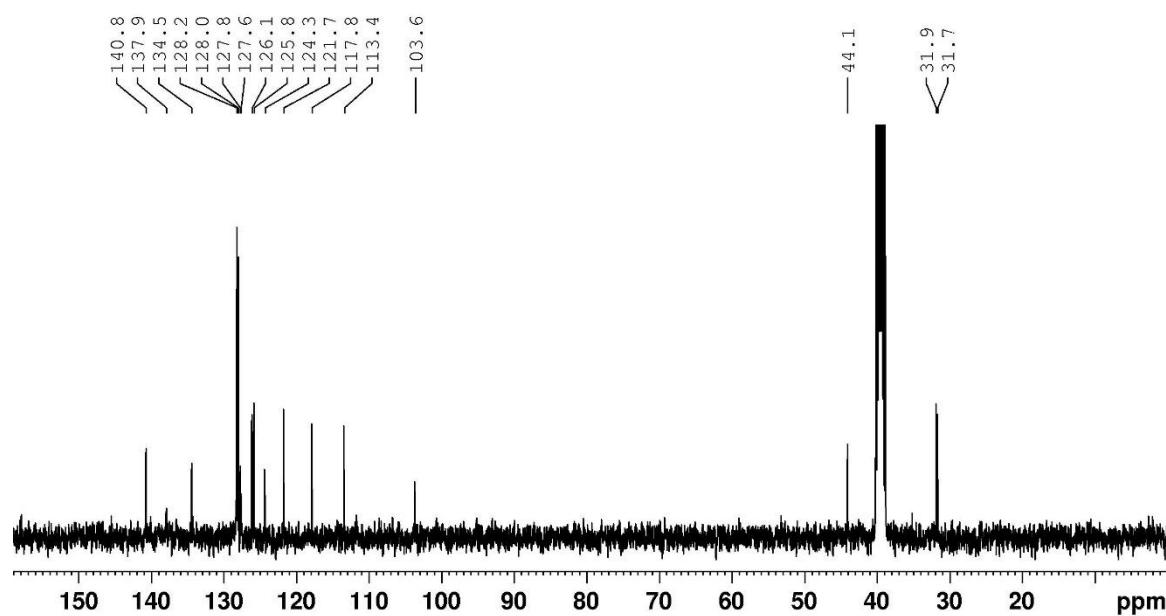
*Figure S58.* 5-Chloro-3-(1-(3-phenylpropyl)-1*H*-imidazol-5-yl)-1*H*-indole (**58**)



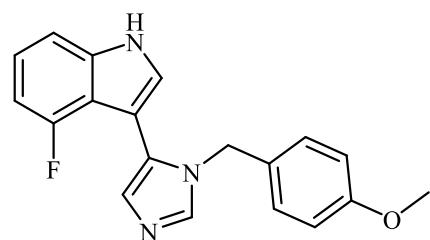
<sup>1</sup>H NMR (DMSO-*d*<sub>6</sub>, 400 MHz):



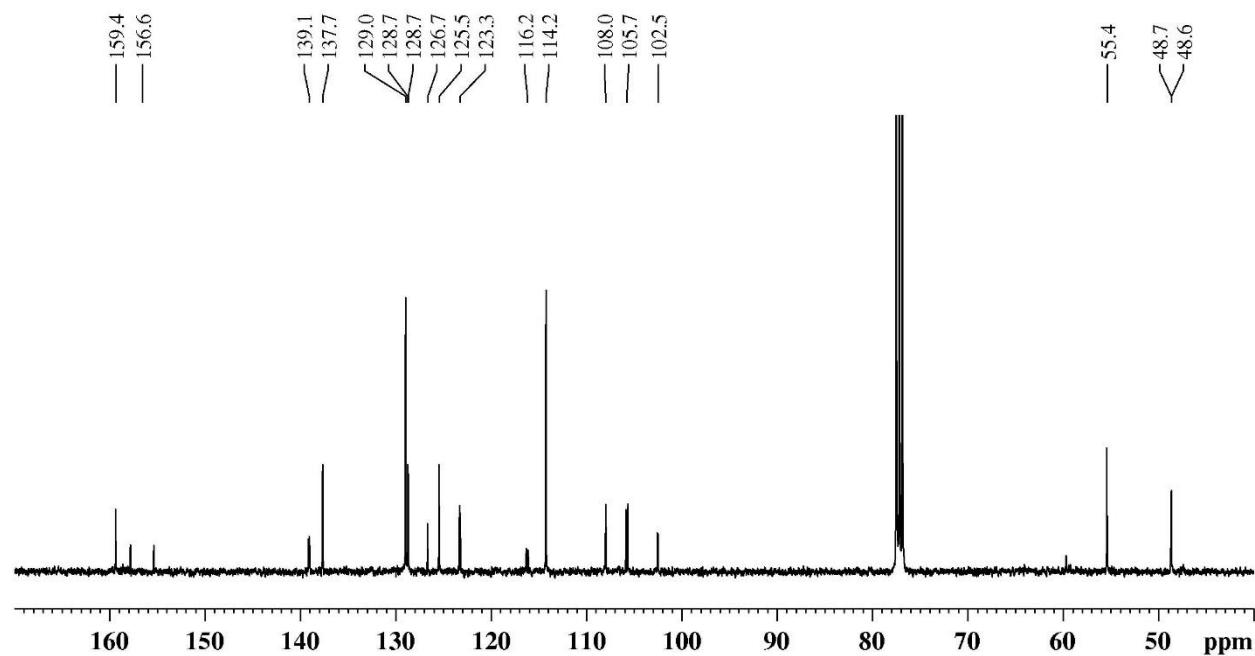
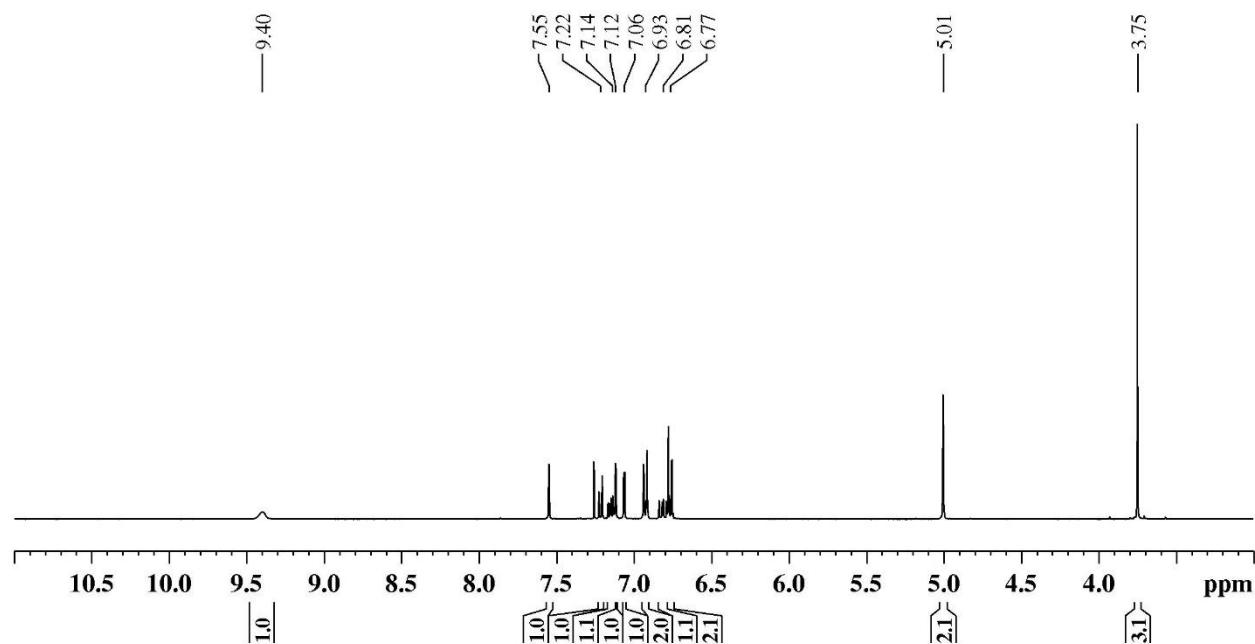
<sup>13</sup>C NMR (DMSO-*d*<sub>6</sub>, 100 MHz):



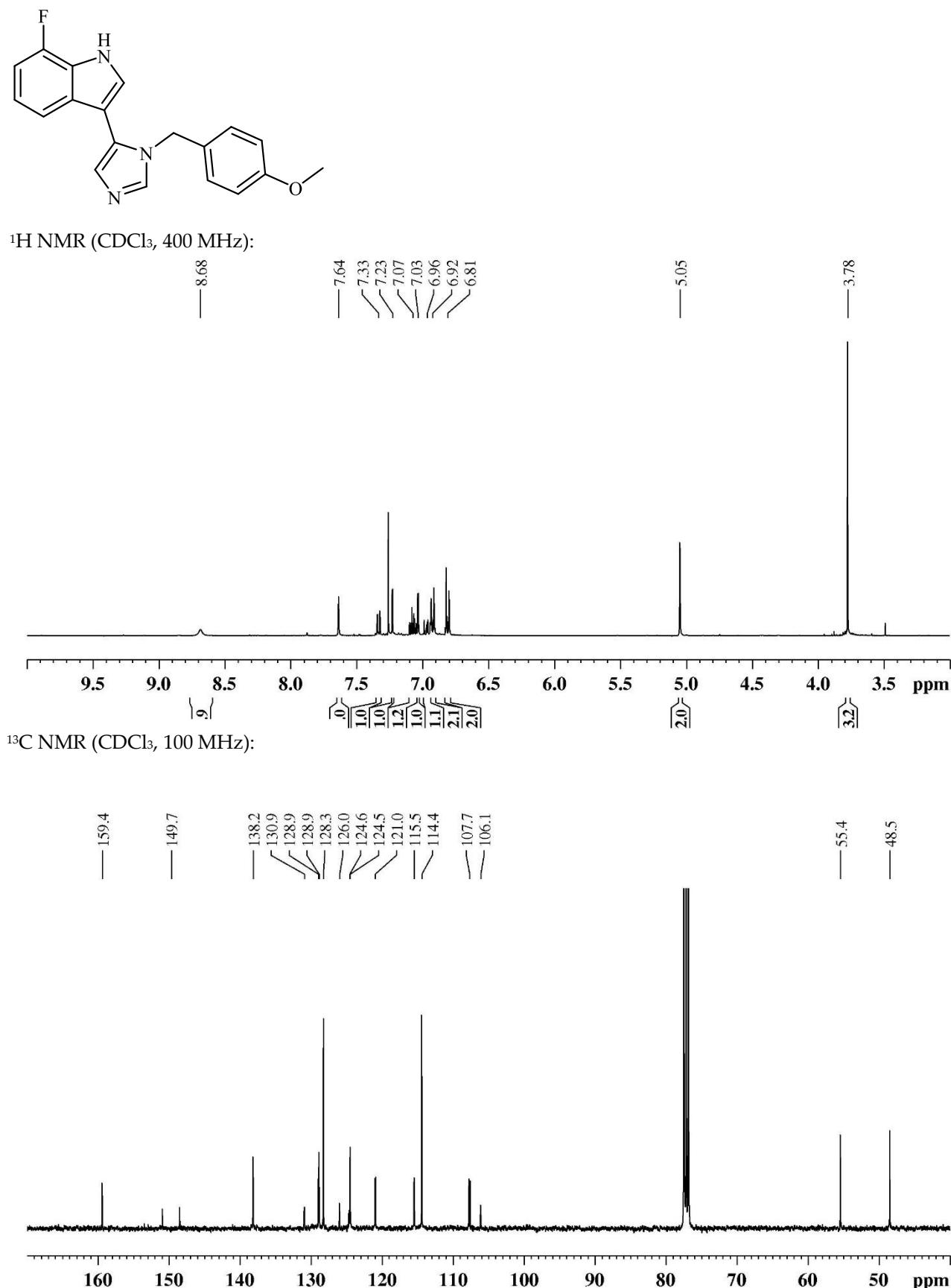
**Figure S59.** 4-Fluoro-3-(1-(4-methoxybenzyl)-1*H*-imidazol-5-yl)-1*H*-indole (**59**)



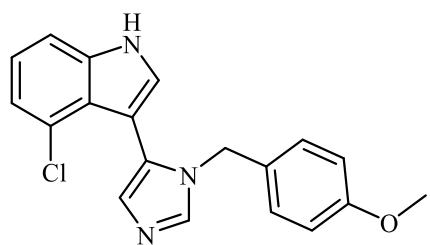
<sup>1</sup>H NMR (CDCl<sub>3</sub>, 400 MHz):



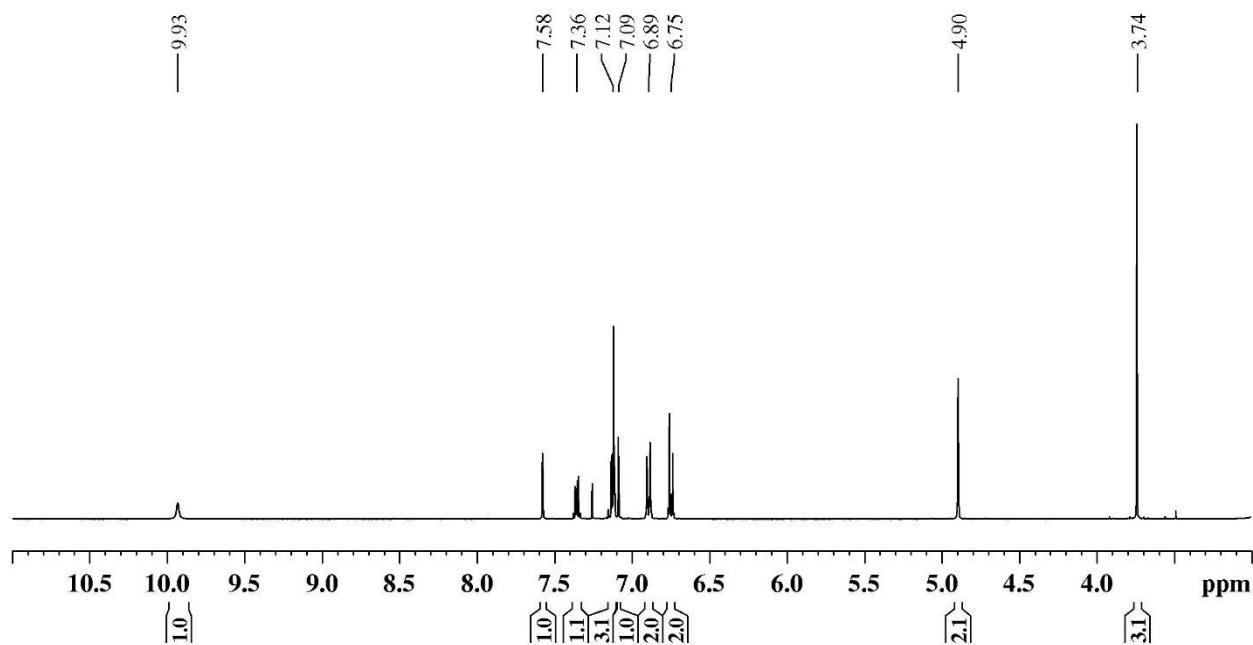
**Figure S60.** 7-Fluoro-3-(1-(4-methoxybenzyl)-1*H*-imidazol-5-yl)-1*H*-indole (**60**)



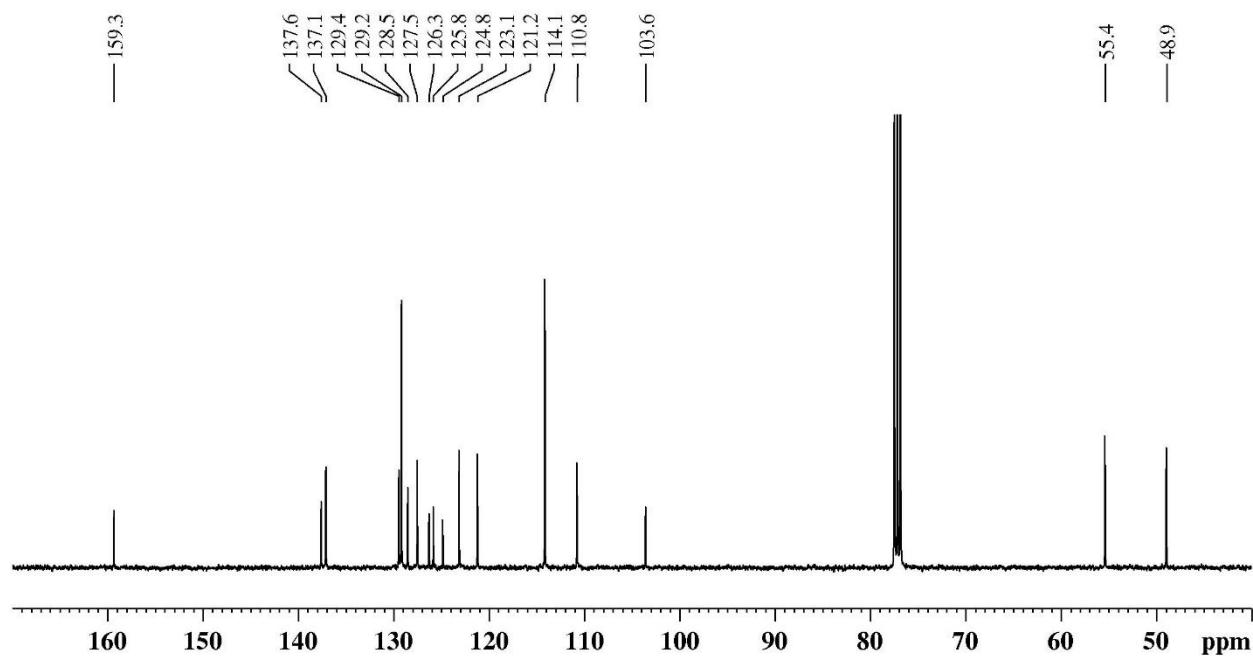
**Figure S61.** 4-Chloro-3-(1-(4-methoxybenzyl)-1*H*-imidazol-5-yl)-1*H*-indole (**61**)



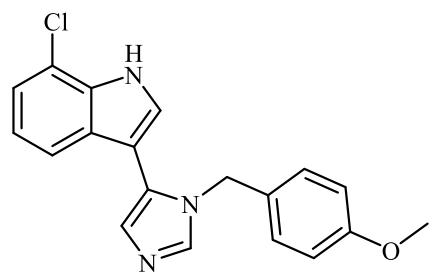
<sup>1</sup>H NMR (CDCl<sub>3</sub>, 400 MHz):



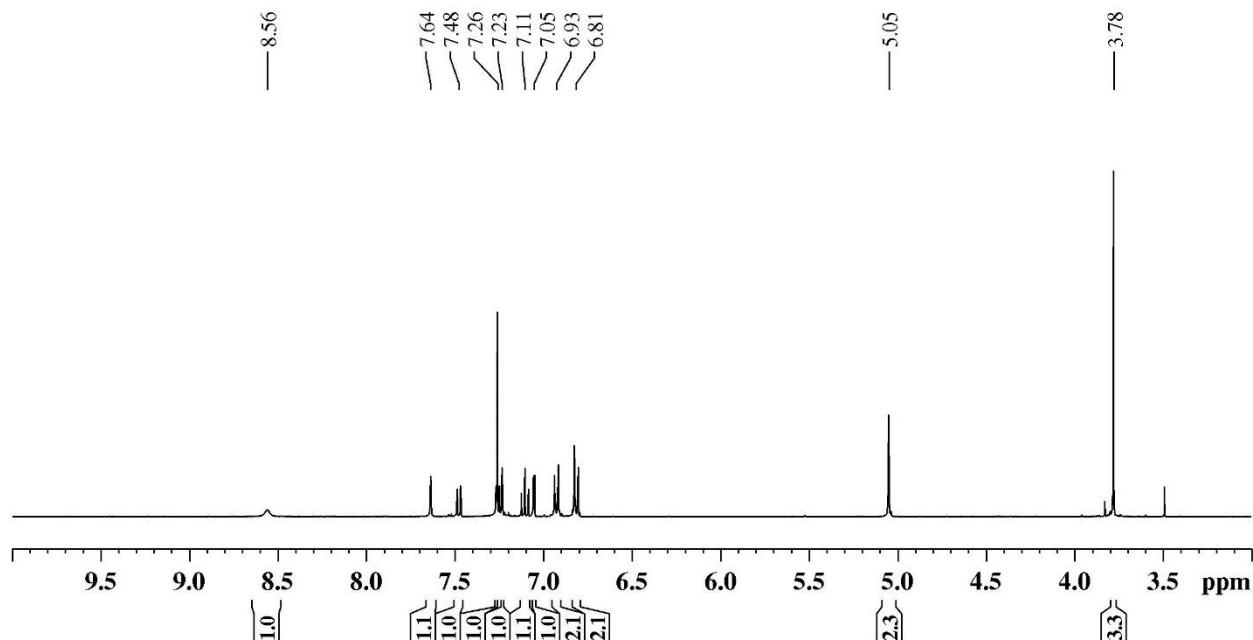
<sup>13</sup>C NMR (CDCl<sub>3</sub>, 100 MHz):



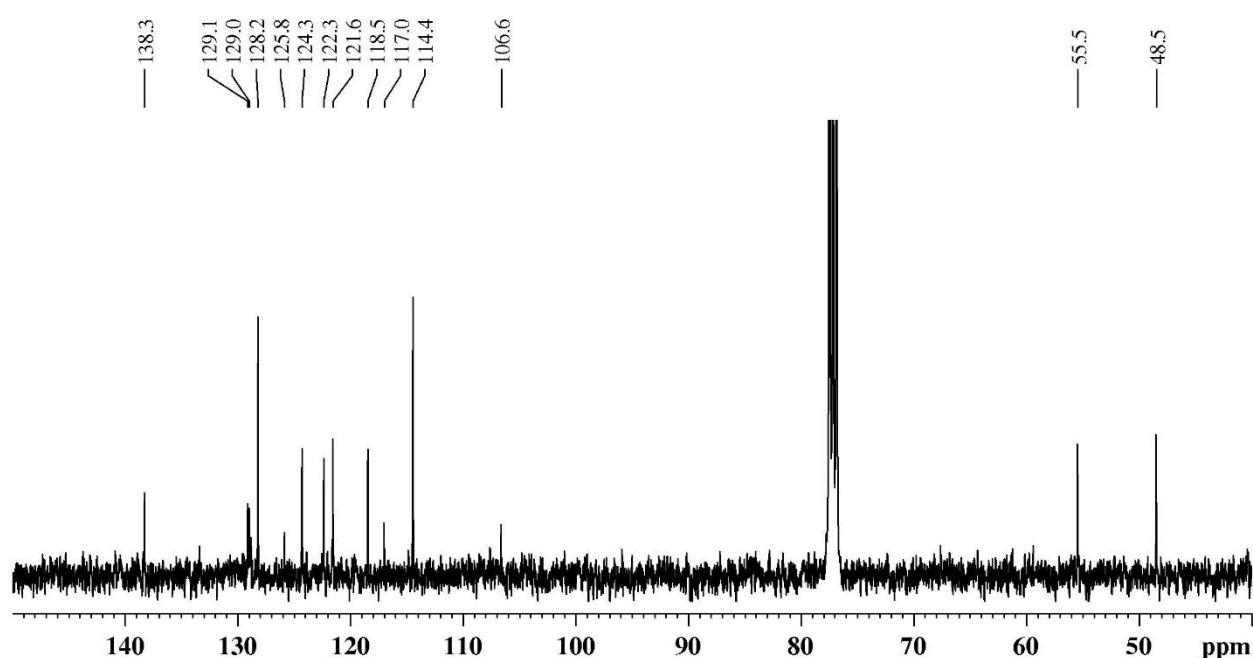
*Figure S62.* 7-Chloro-3-(1-(4-methoxybenzyl)-1*H*-imidazol-5-yl)-1*H*-indole (**62**)



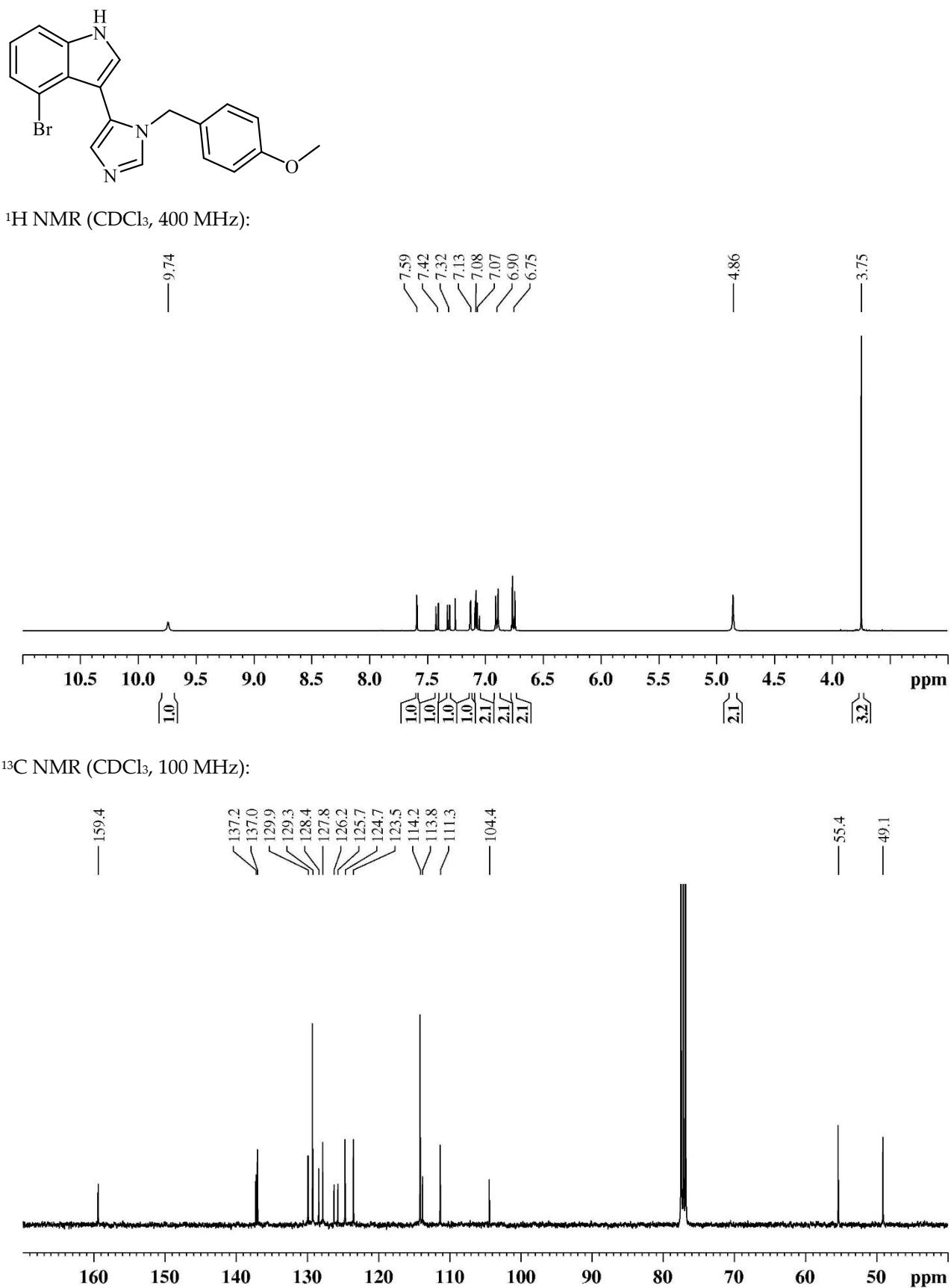
<sup>1</sup>H NMR (CDCl<sub>3</sub>, 400 MHz):



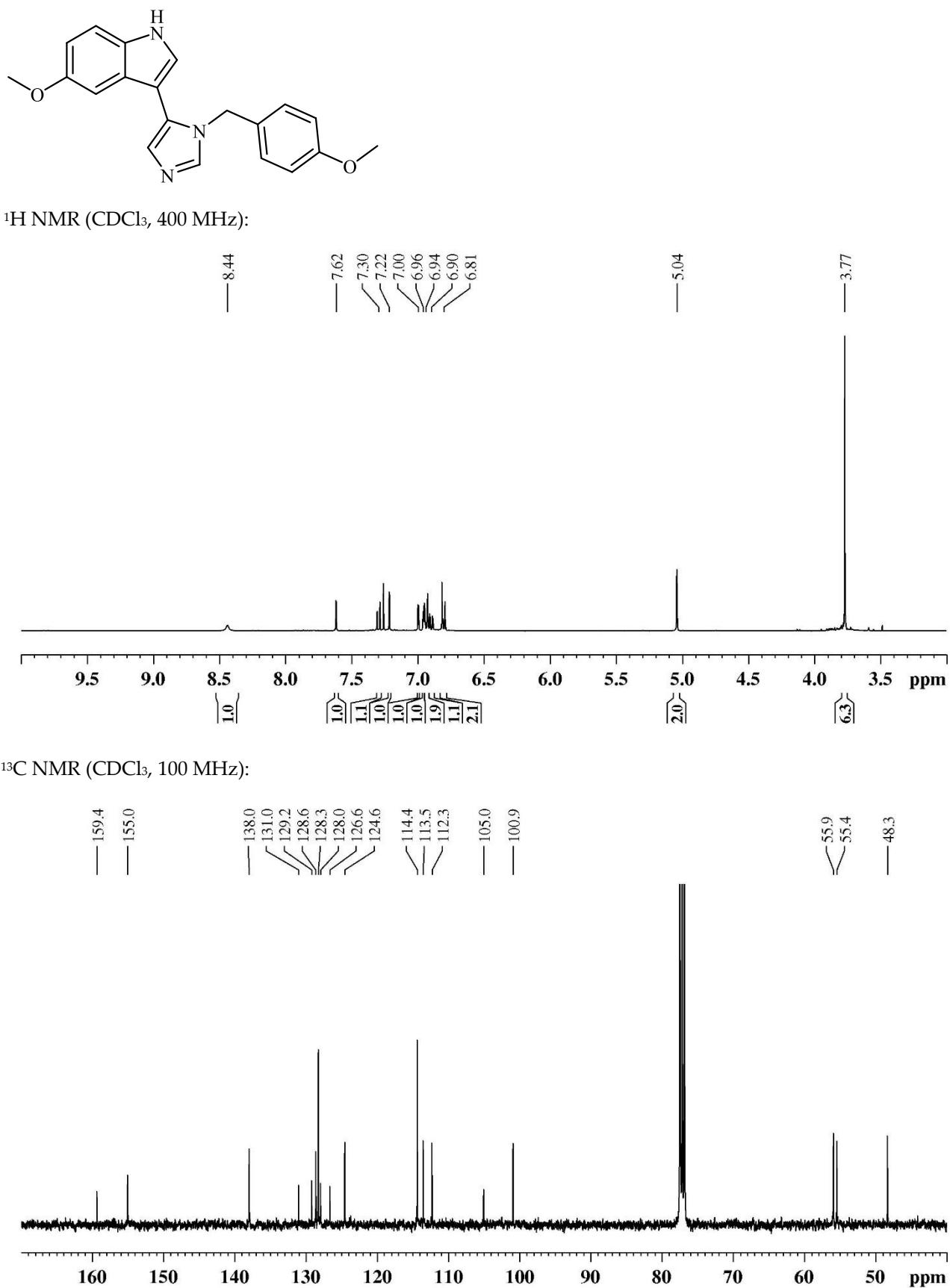
<sup>13</sup>C NMR (CDCl<sub>3</sub>, 100 MHz):



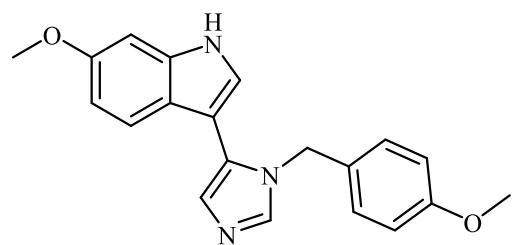
*Figure S63.* 4-Bromo-3-(1-(4-methoxybenzyl)-1*H*-imidazol-5-yl)-1*H*-indole (**63**)



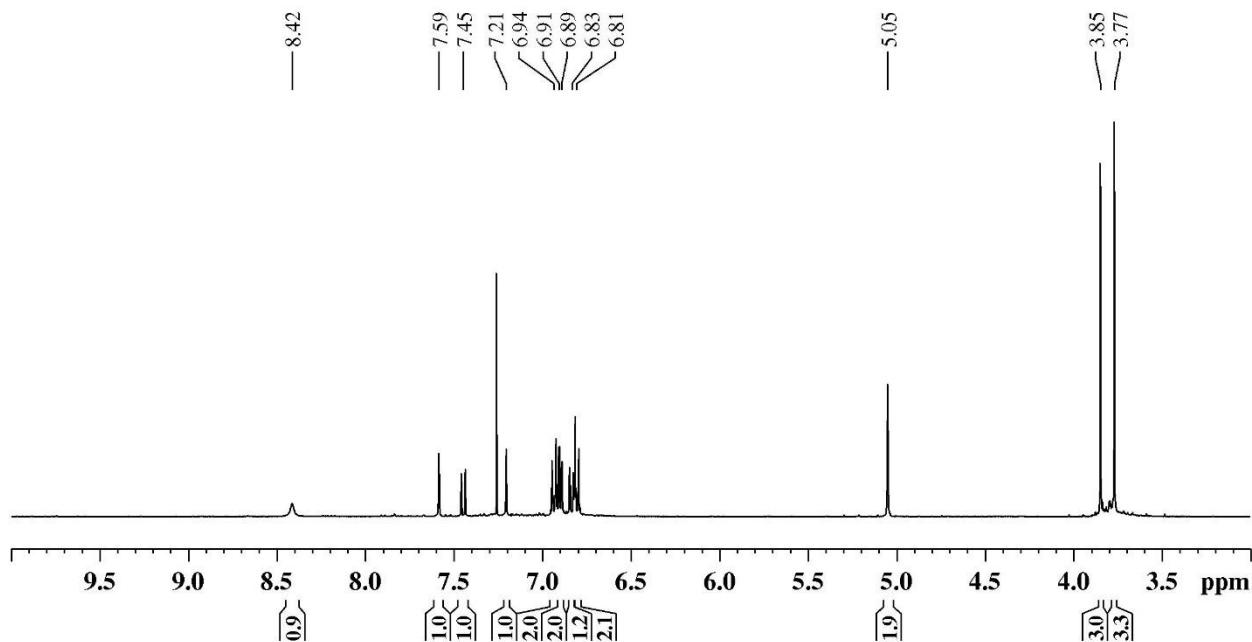
**Figure S64.** 5-Methoxy-3-(1-(4-methoxybenzyl)-1*H*-imidazol-5-yl)-1*H*-indole (**64**)



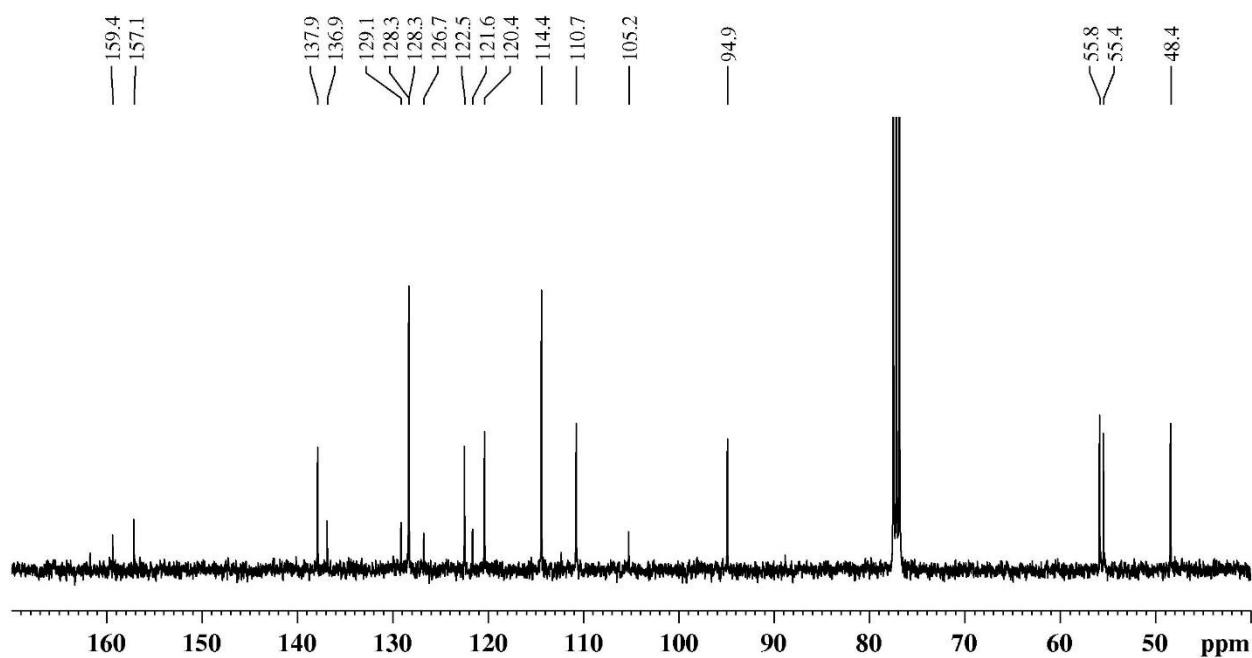
*Figure S65.* 6-Methoxy-3-(1-(4-methoxybenzyl)-1*H*-imidazol-5-yl)-1*H*-indole (**65**)



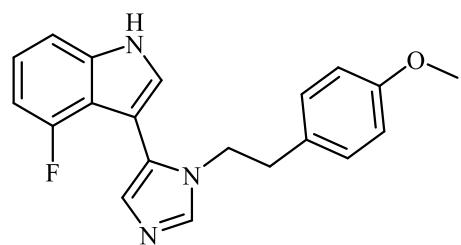
$^1\text{H}$  NMR ( $\text{CDCl}_3$ , 400 MHz):



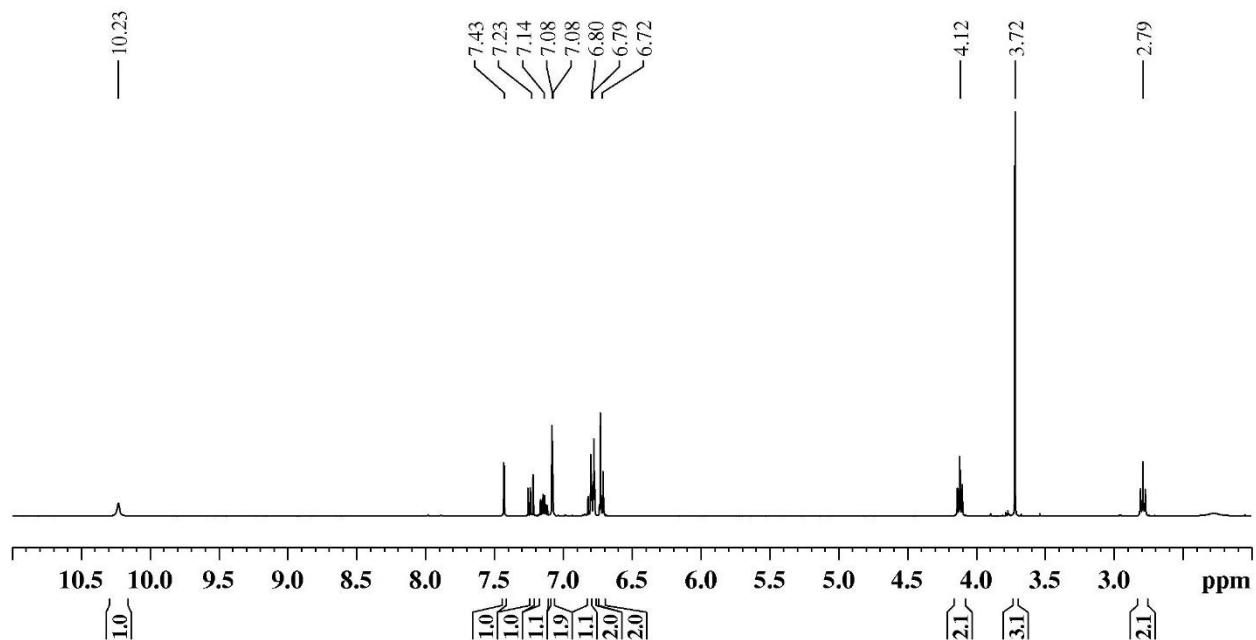
$^{13}\text{C}$  NMR ( $\text{CDCl}_3$ , 100 MHz):



*Figure S66.* 4-Fluoro-3-(1-(4-methoxyphenethyl)-1*H*-imidazol-5-yl)-1*H*-indole (**66**)



$^1\text{H}$  NMR ( $\text{CDCl}_3$ , 400 MHz):



$^{13}\text{C}$  NMR ( $\text{CDCl}_3$ , 100 MHz):

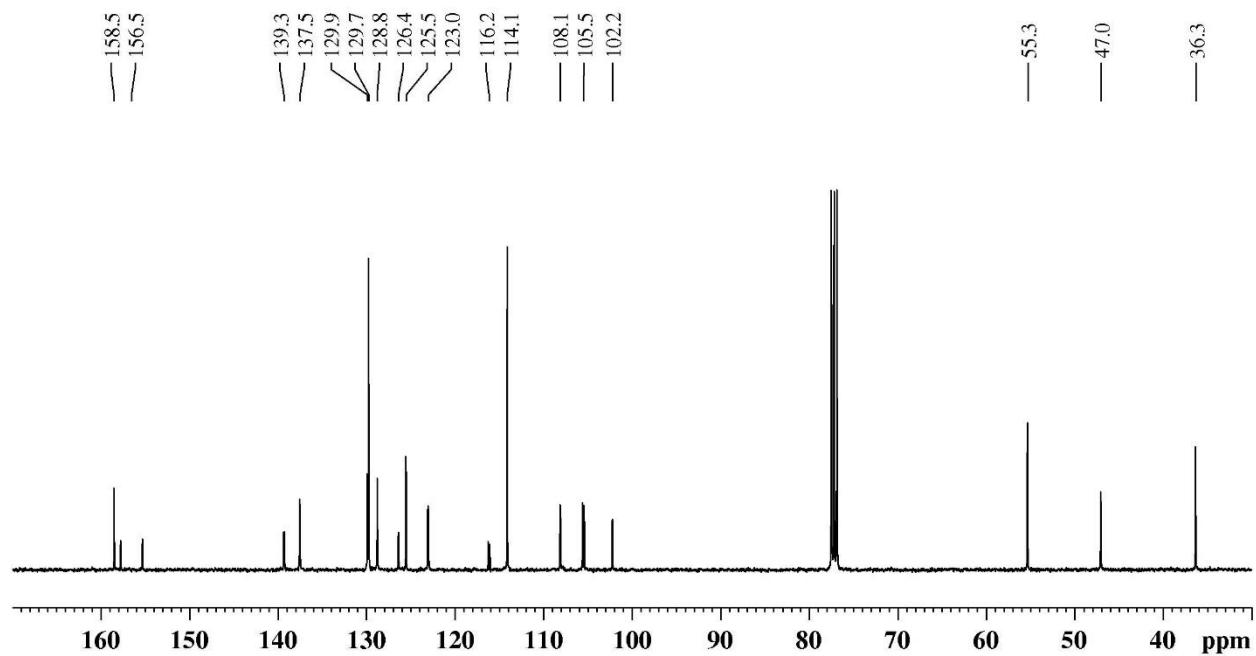
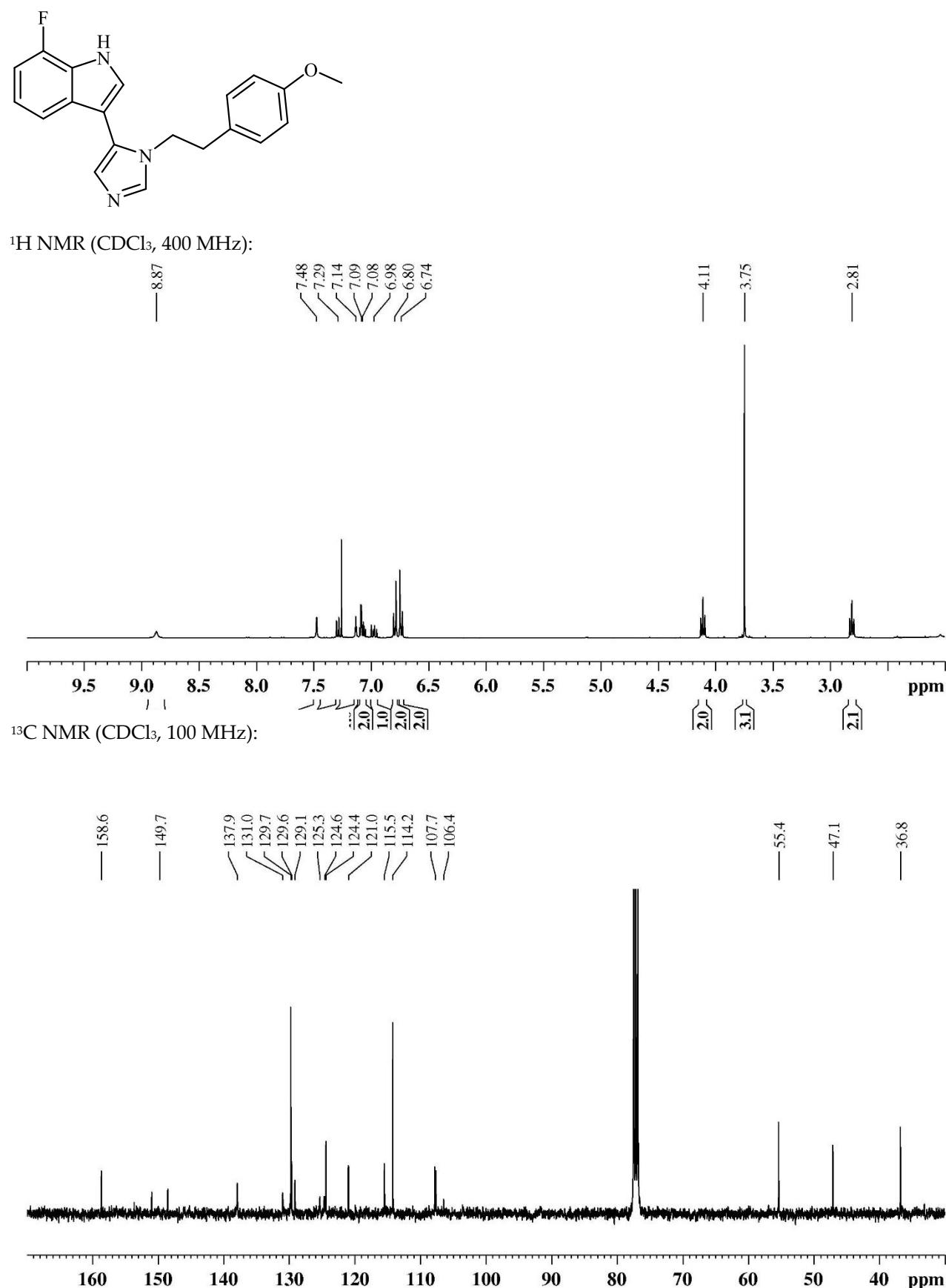
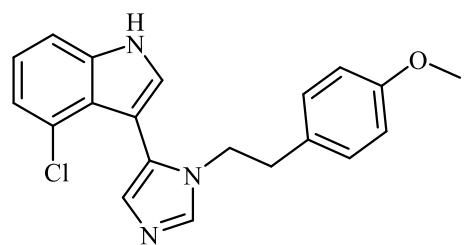


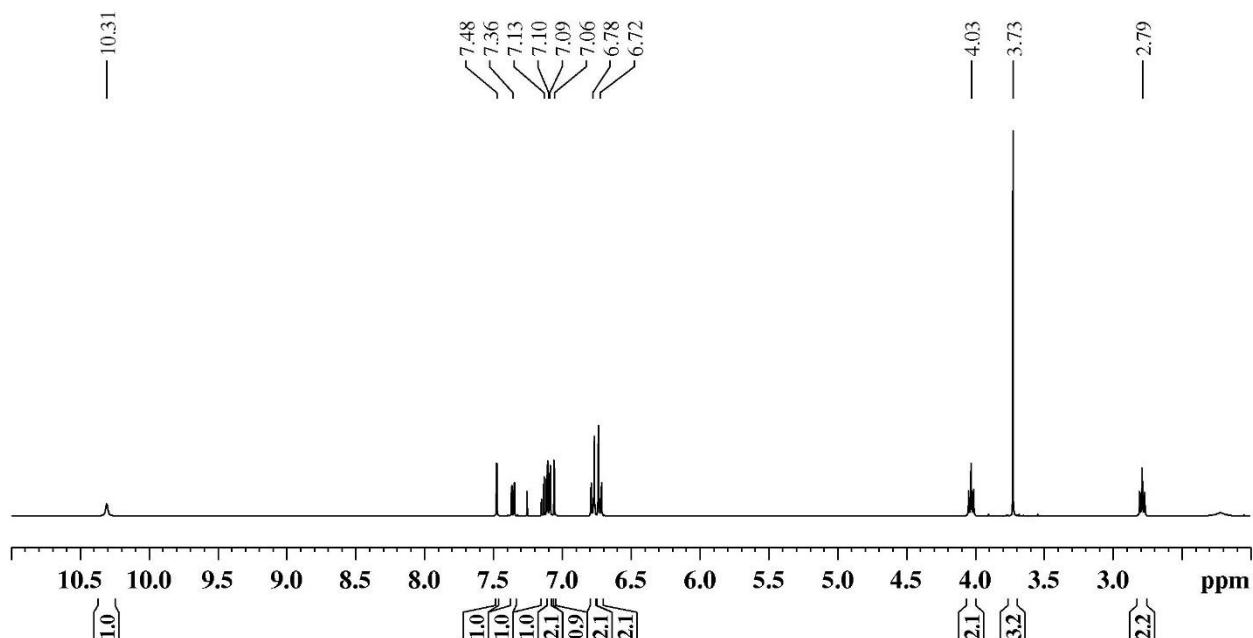
Figure S67. 7-Fluoro-3-(1-(4-methoxyphenethyl)-1*H*-imidazol-5-yl)-1*H*-indole (**67**)



*Figure S68.* 4-Chloro-3-(1-(4-methoxyphenethyl)-1*H*-imidazol-5-yl)-1*H*-indole (**68**)



$^1\text{H}$  NMR ( $\text{CDCl}_3$ , 400 MHz):



$^{13}\text{C}$  NMR ( $\text{CDCl}_3$ , 100 MHz):

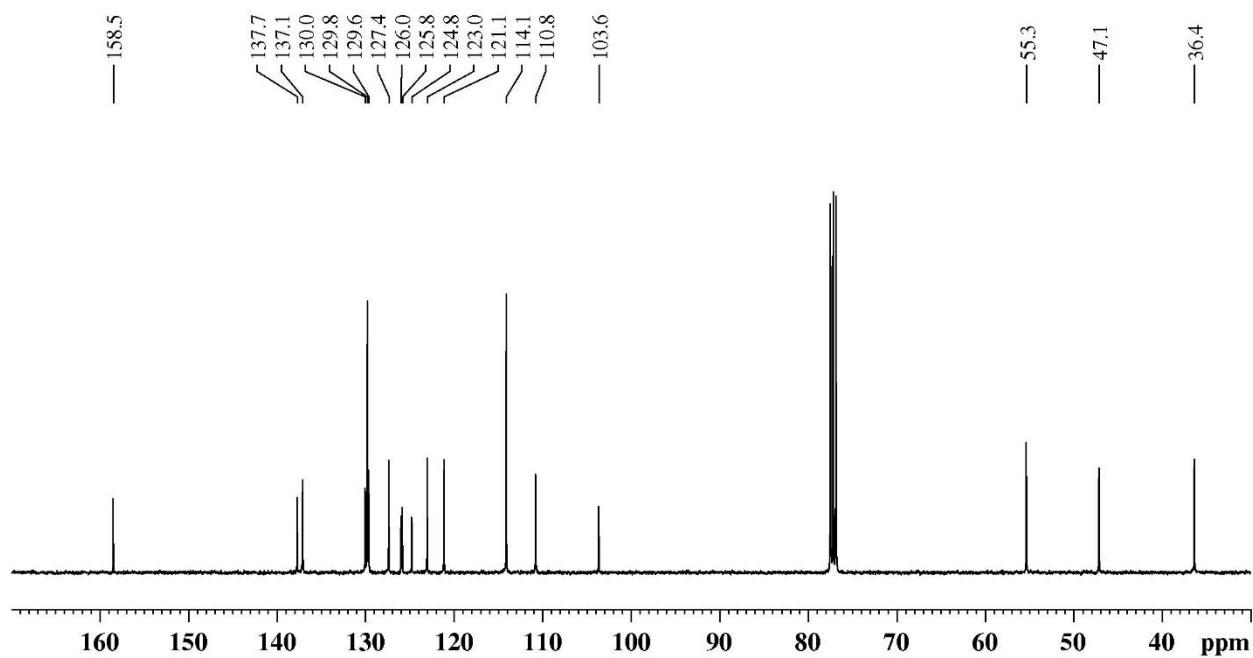
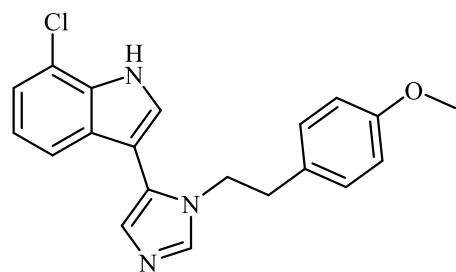
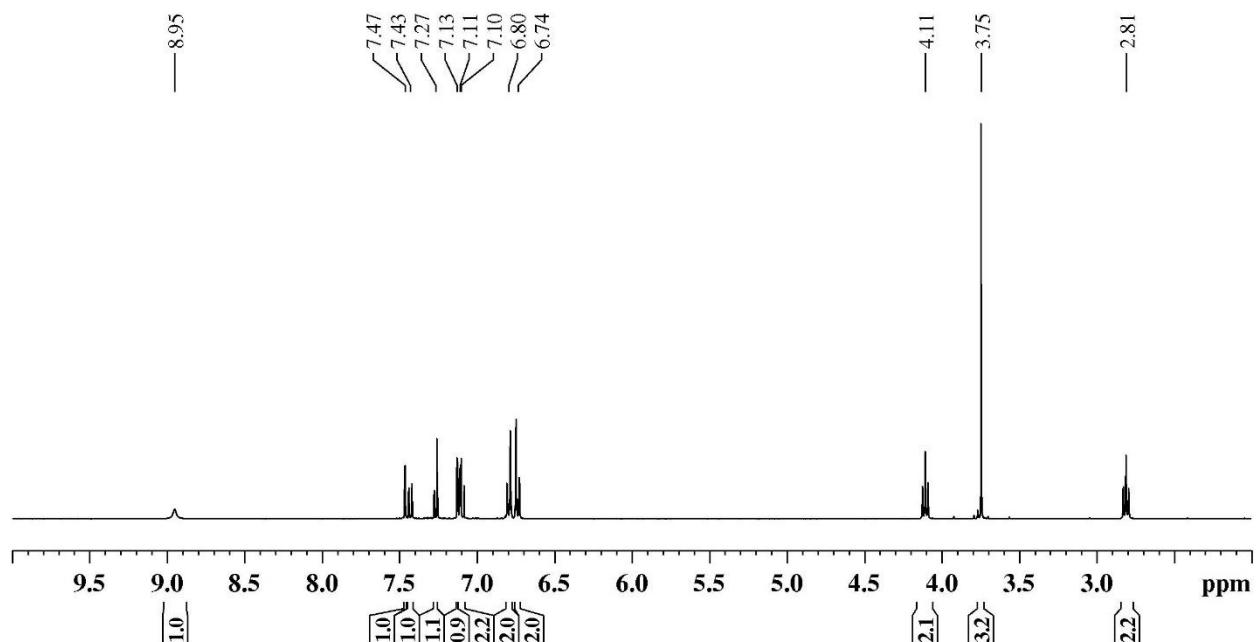


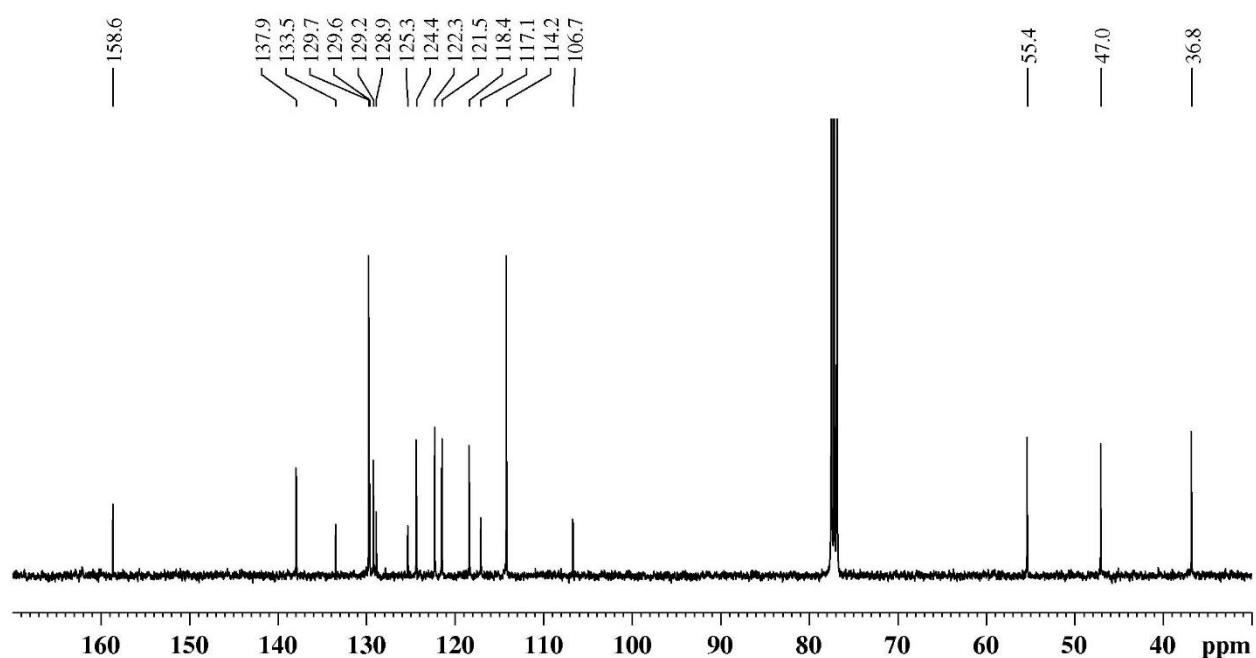
Figure S69. 7-Chloro-3-(1-(4-methoxyphenethyl)-1*H*-imidazol-5-yl)-1*H*-indole (**69**)



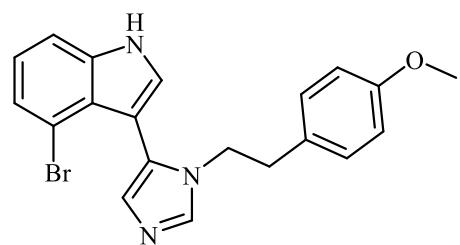
<sup>1</sup>H NMR (CDCl<sub>3</sub>, 400 MHz):



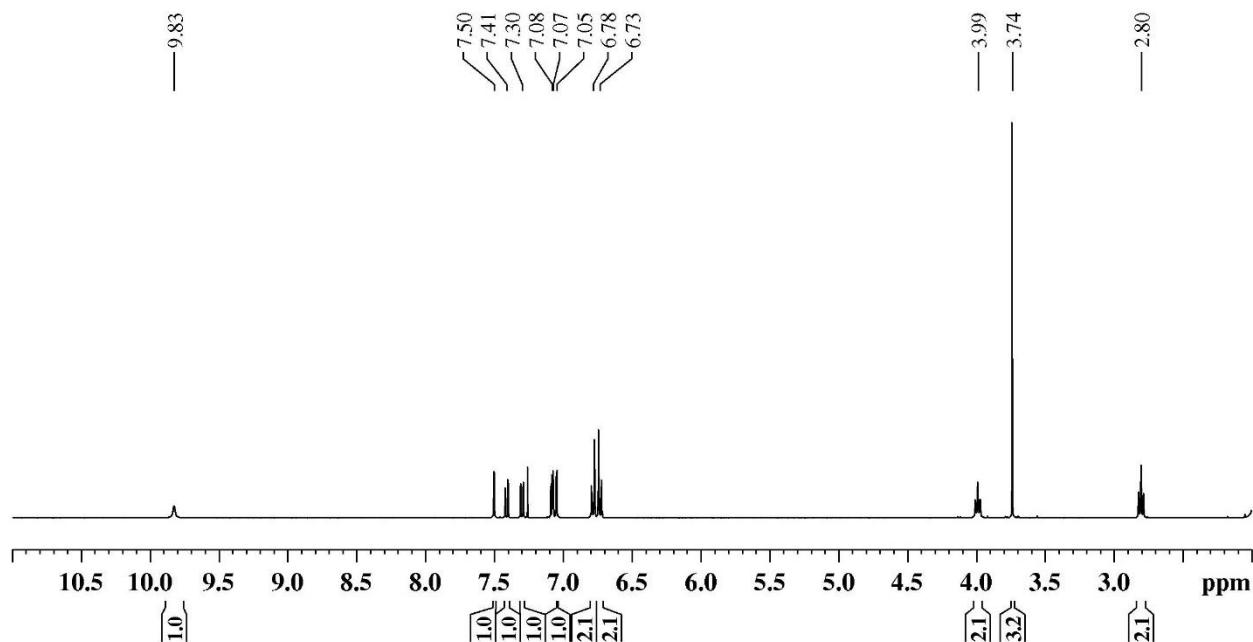
<sup>13</sup>C NMR (CDCl<sub>3</sub>, 100 MHz):



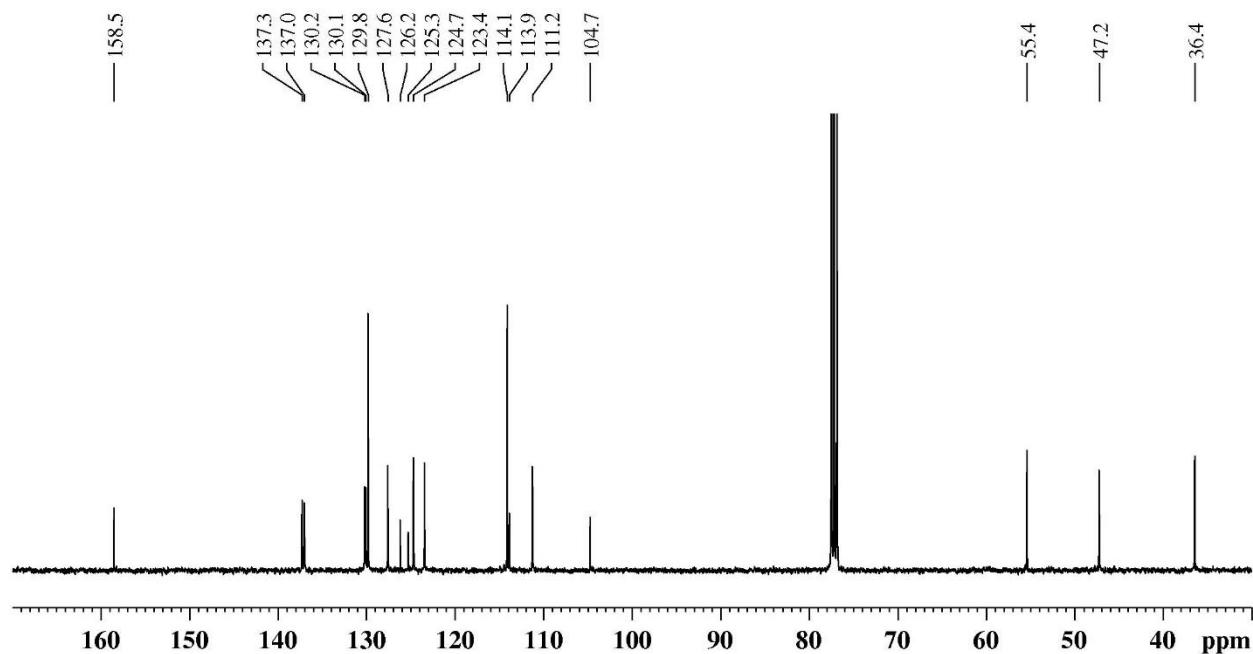
*Figure S70.* 4-Bromo-3-(1-(4-methoxyphenethyl)-1*H*-imidazol-5-yl)-1*H*-indole (**70**)



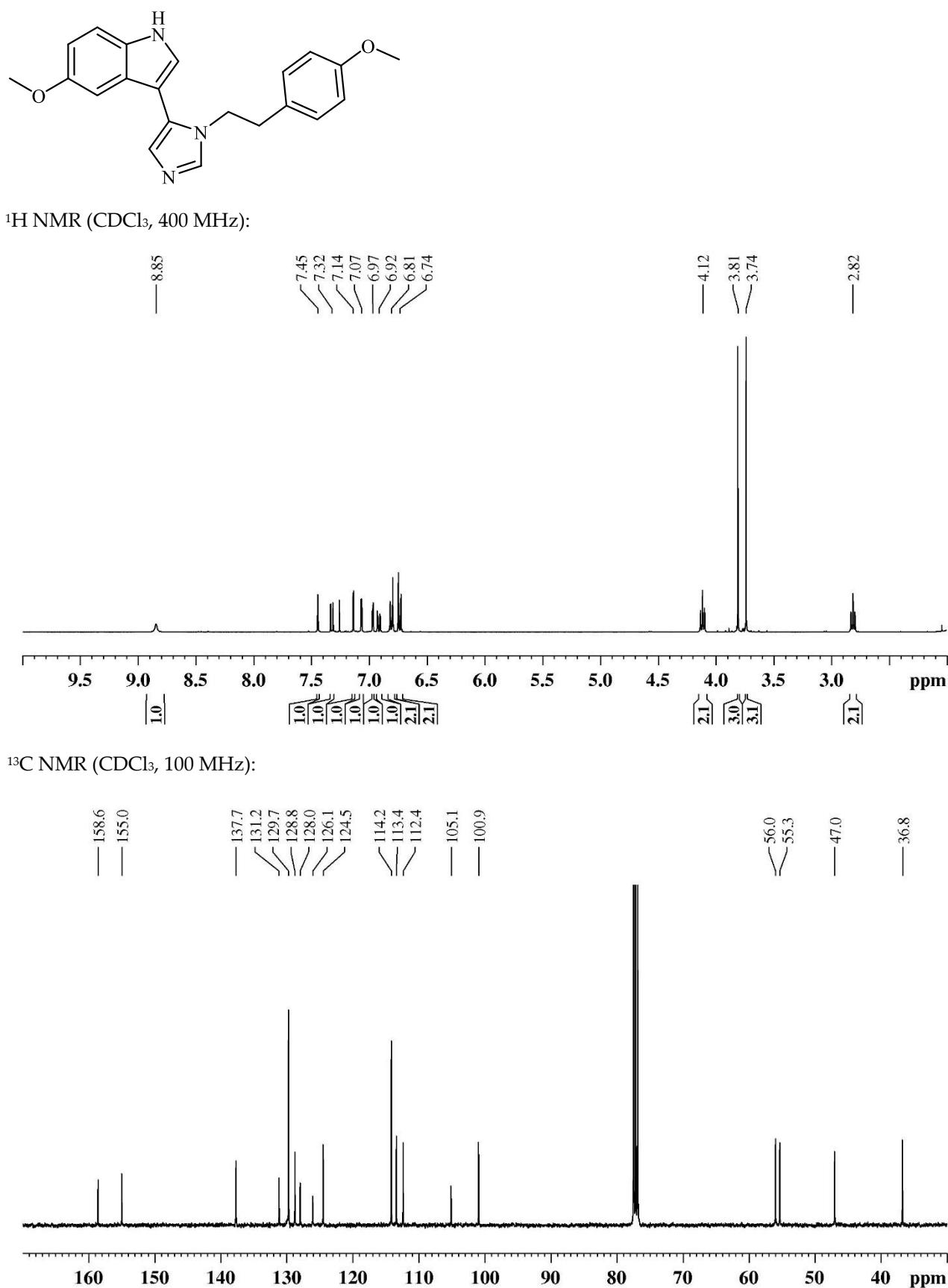
$^1\text{H}$  NMR ( $\text{CDCl}_3$ , 400 MHz):



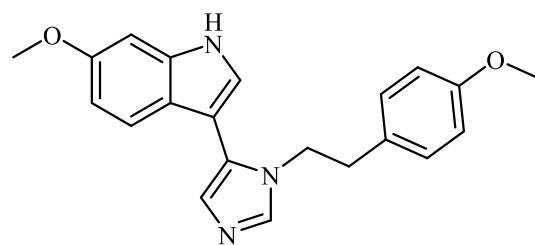
$^{13}\text{C}$  NMR ( $\text{CDCl}_3$ , 100 MHz):



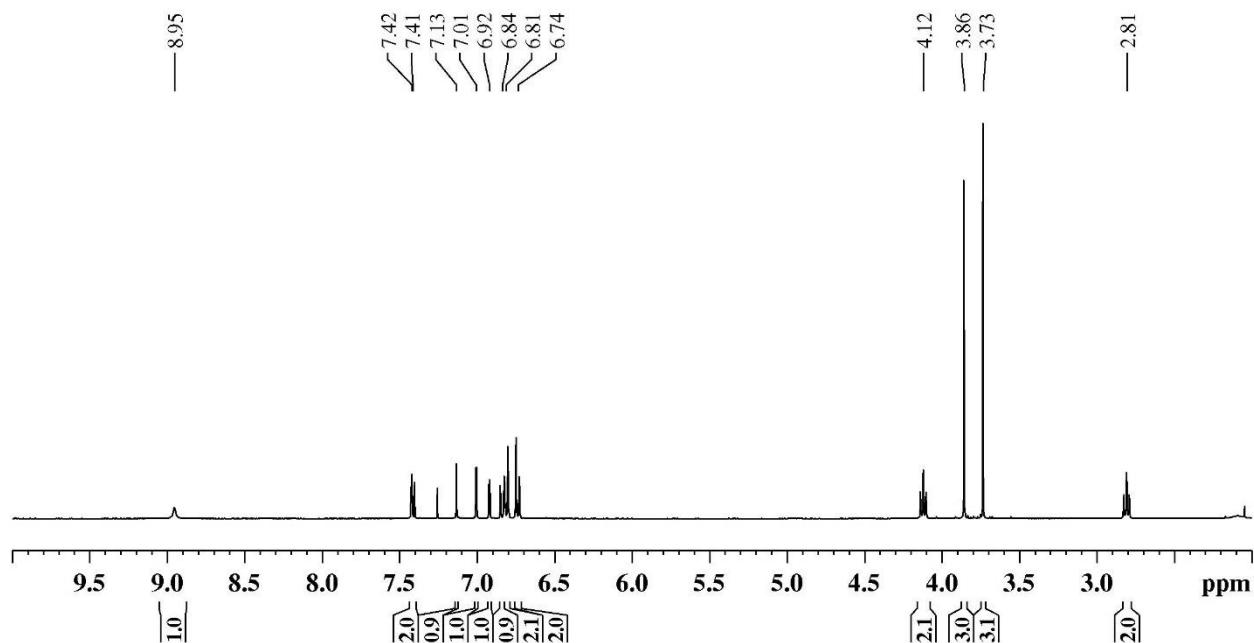
**Figure S71.** 5-Methoxy-3-(1-(4-methoxyphenethyl)-1*H*-imidazol-5-yl)-1*H*-indole (**71**)



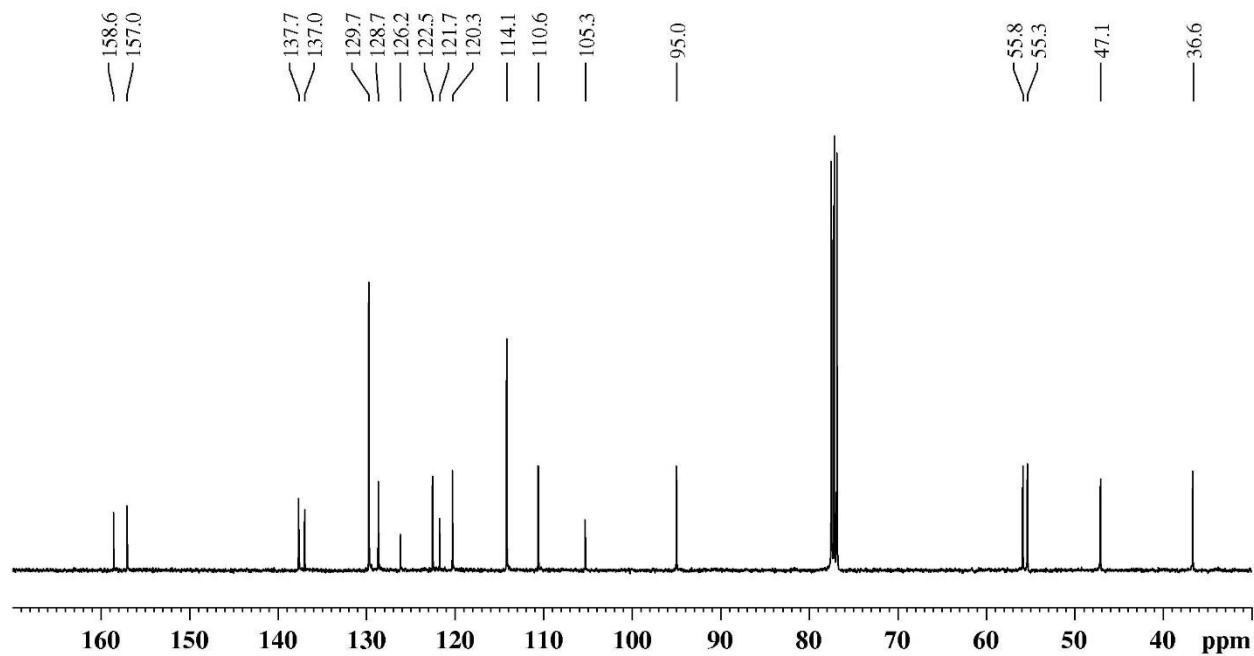
*Figure S72.* 6-Methoxy-3-(1-(4-methoxyphenethyl)-1*H*-imidazol-5-yl)-1*H*-indole (**72**)



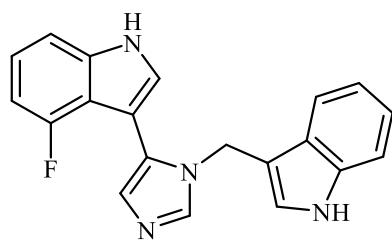
$^1\text{H}$  NMR ( $\text{CDCl}_3$ , 400 MHz):



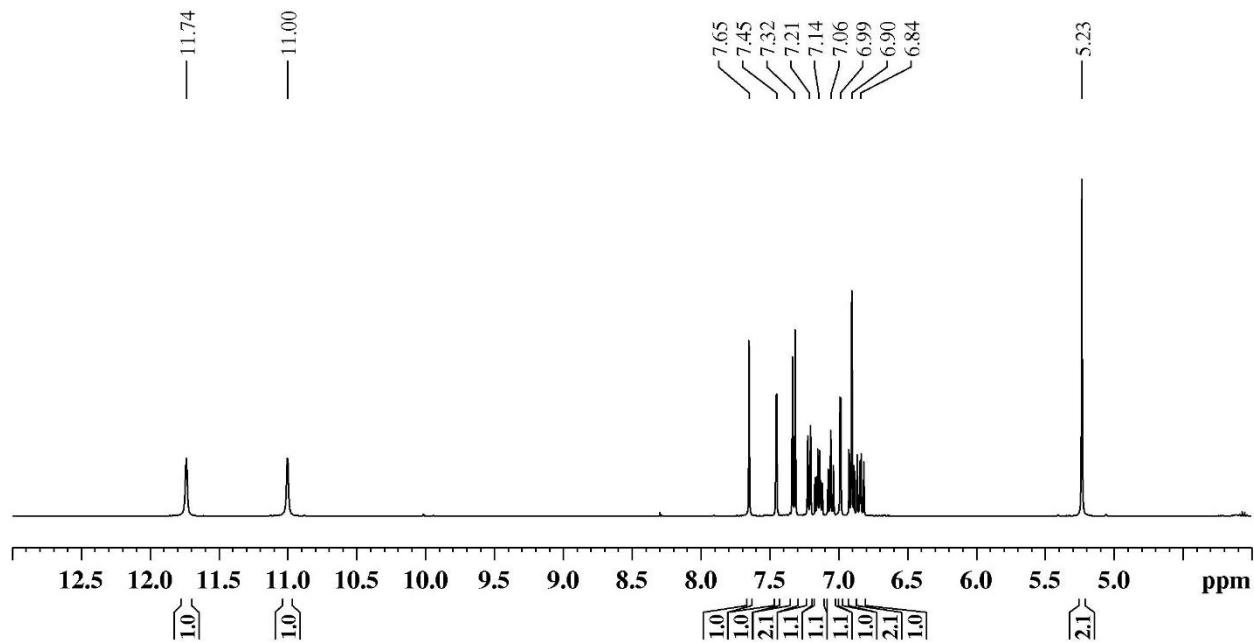
$^{13}\text{C}$  NMR ( $\text{CDCl}_3$ , 100 MHz):



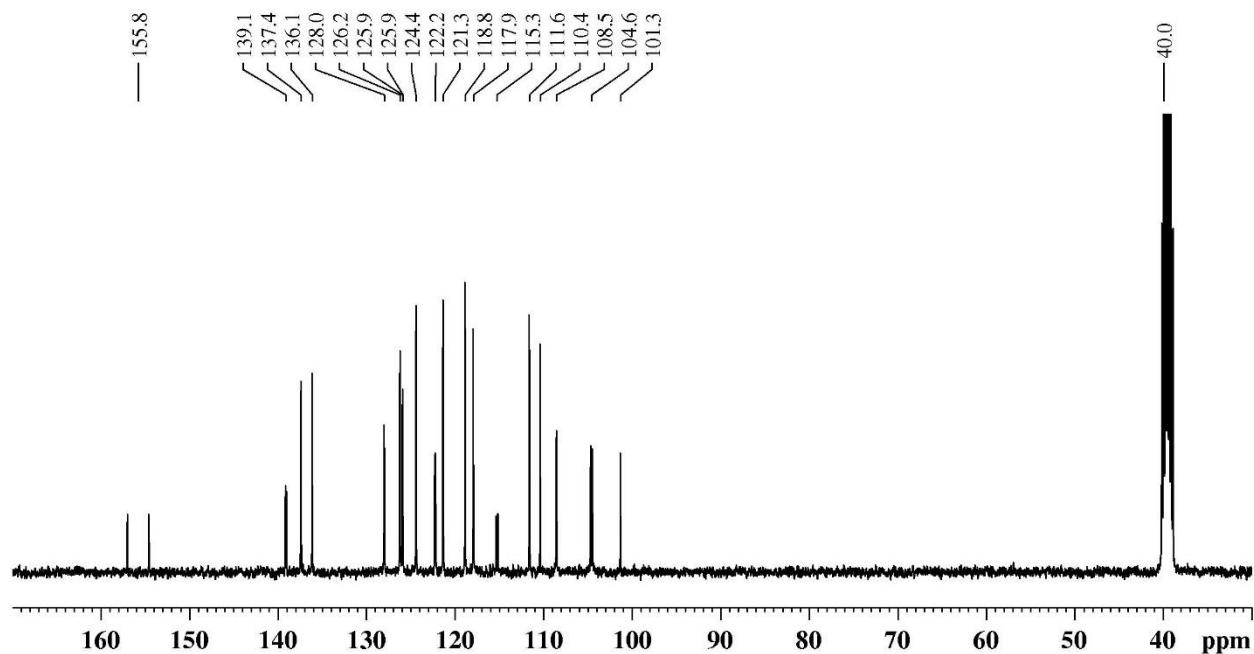
**Figure S73.** 3-((1*H*-Indol-3-yl)methyl)-1*H*-imidazol-5-yl)-4-fluoro-1*H*-indole (**73**)



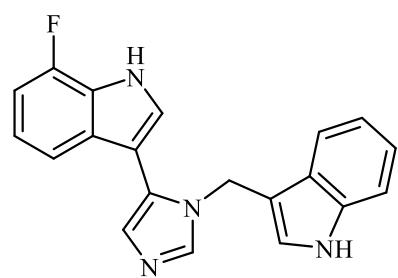
<sup>1</sup>H NMR (DMSO-*d*<sub>6</sub>, 400 MHz):



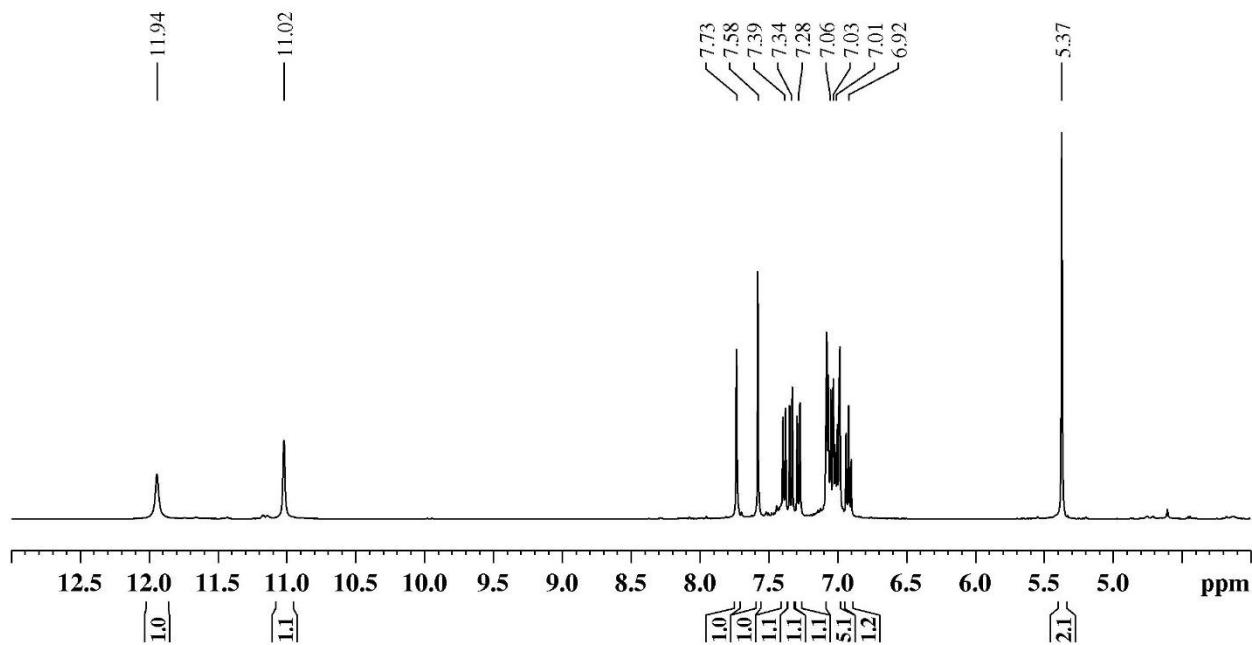
<sup>13</sup>C NMR (DMSO-*d*<sub>6</sub>, 100 MHz):



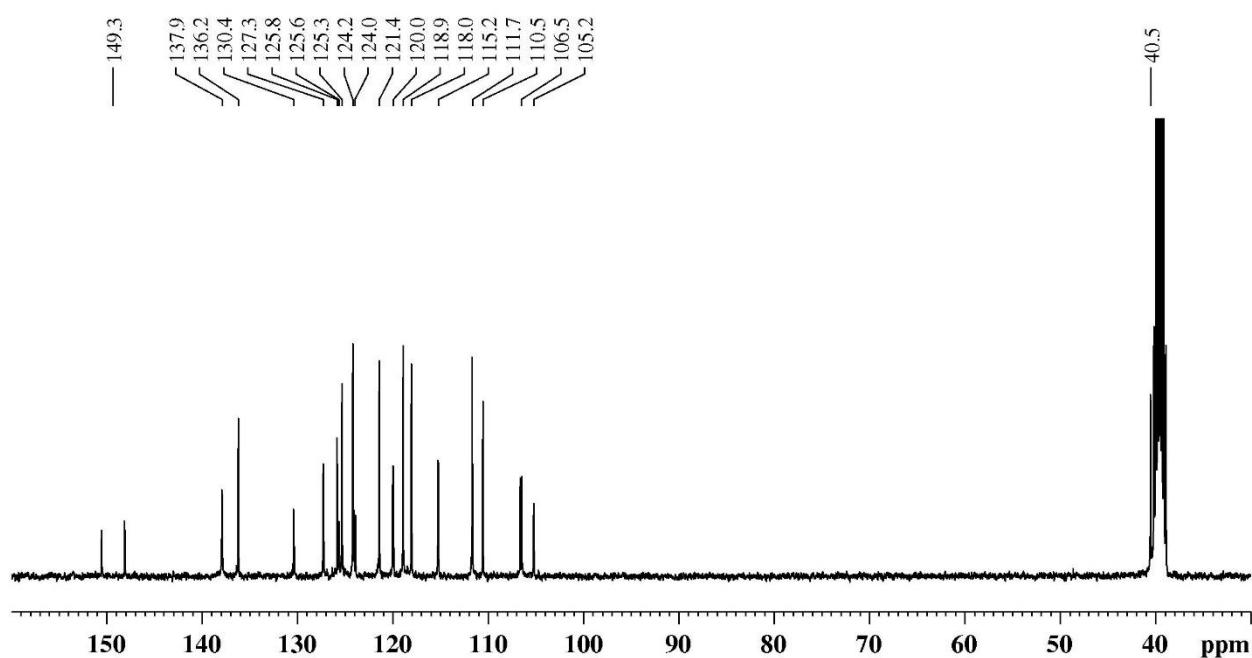
**Figure S74.** 3-((1*H*-Indol-3-yl)methyl)-1*H*-imidazol-5-yl)-7-fluoro-1*H*-indole (**74**)



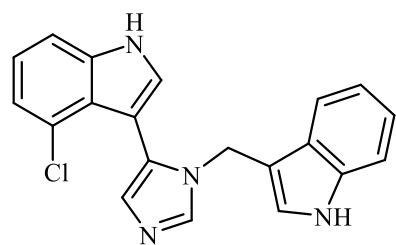
<sup>1</sup>H NMR (DMSO-*d*<sub>6</sub>, 400 MHz):



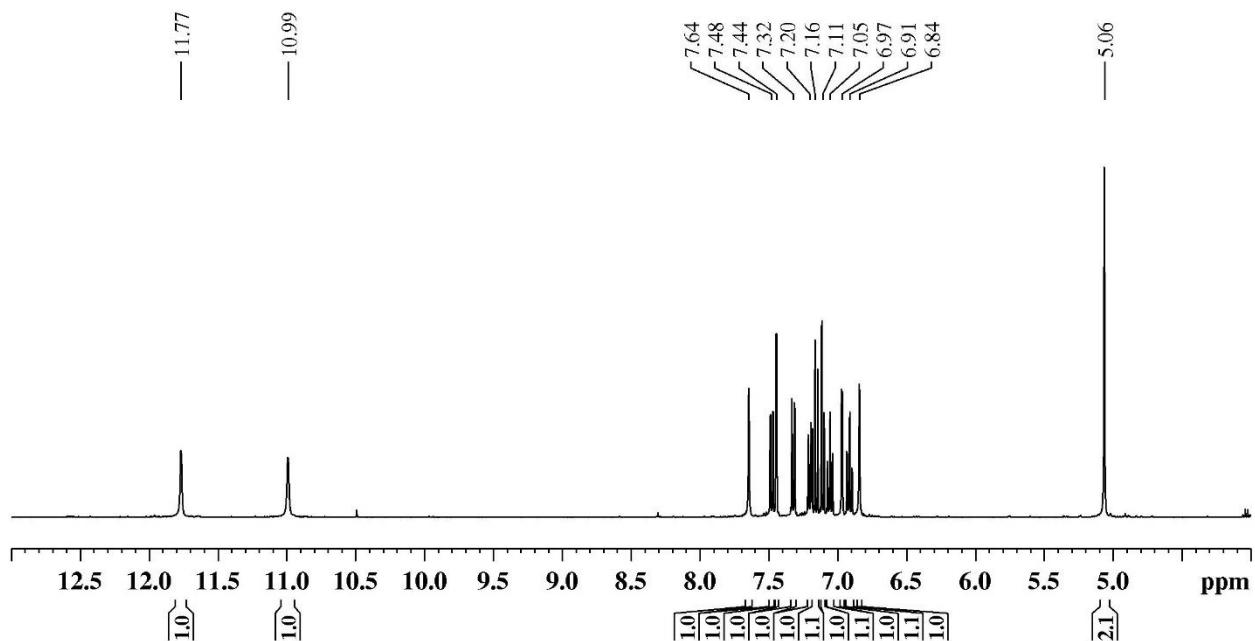
<sup>13</sup>C NMR (DMSO-*d*<sub>6</sub>, 100 MHz):



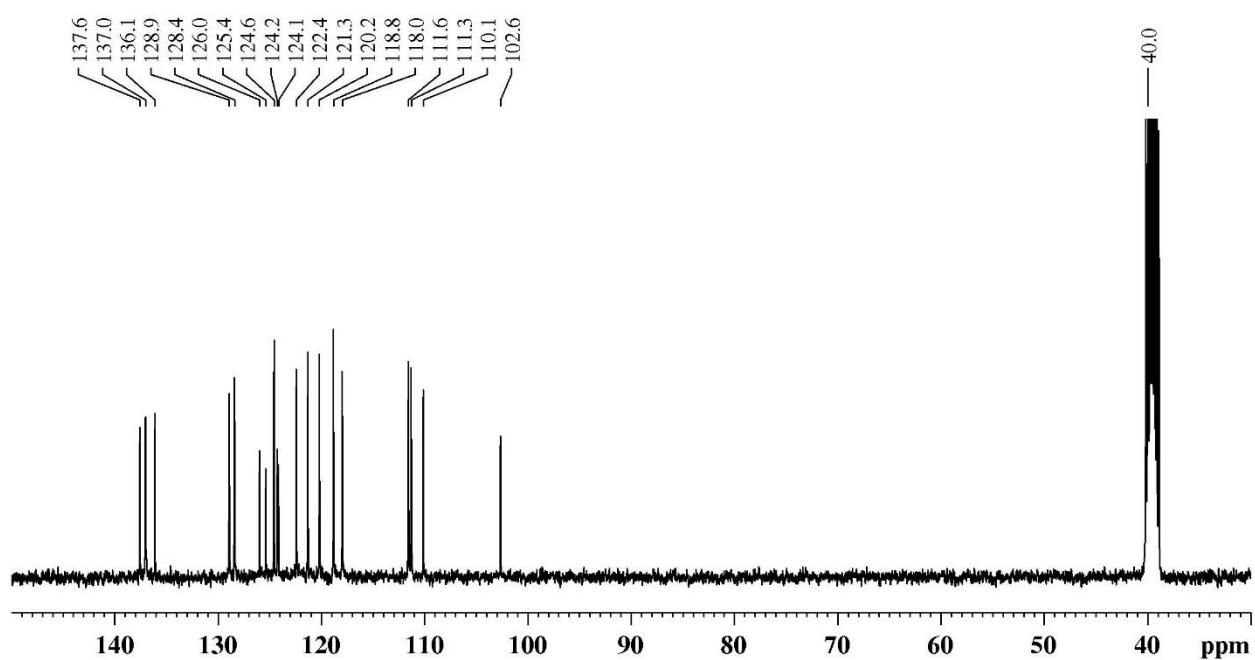
*Figure S75.* 3-((1*H*-Indol-3-yl)methyl)-1*H*-imidazol-5-yl)-4-chloro-1*H*-indole (**75**)



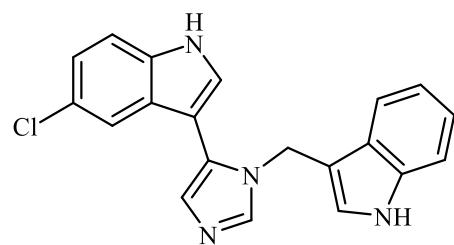
<sup>1</sup>H NMR (DMSO-*d*<sub>6</sub>, 400 MHz):



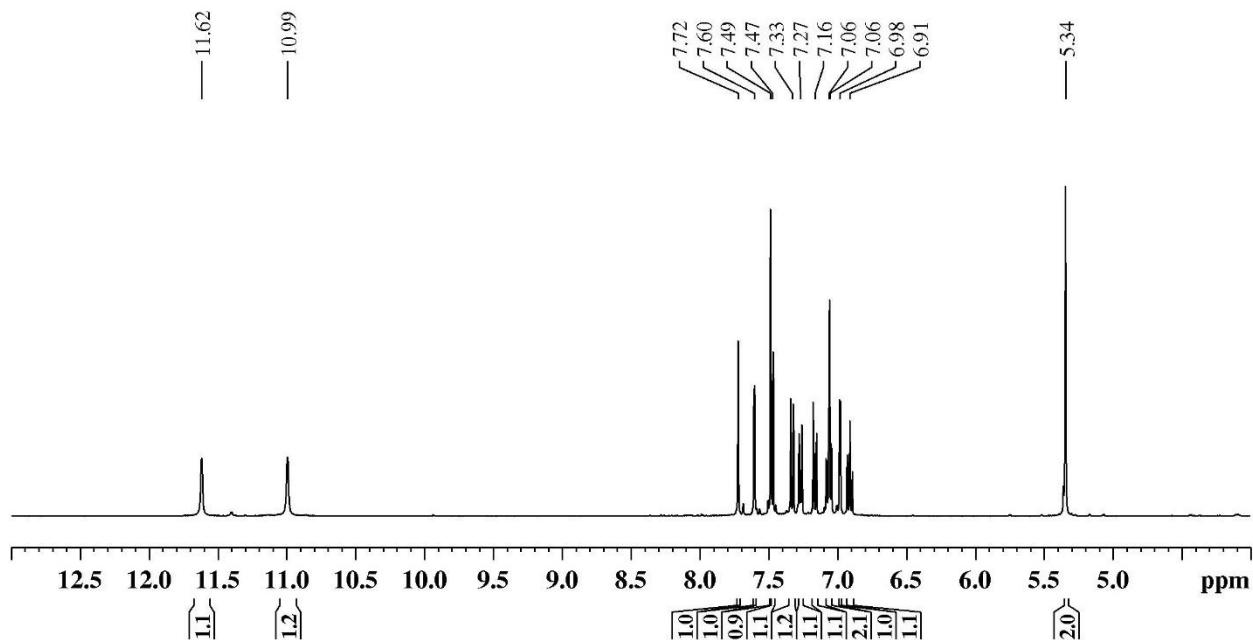
<sup>13</sup>C NMR (DMSO-*d*<sub>6</sub>, 100 MHz):



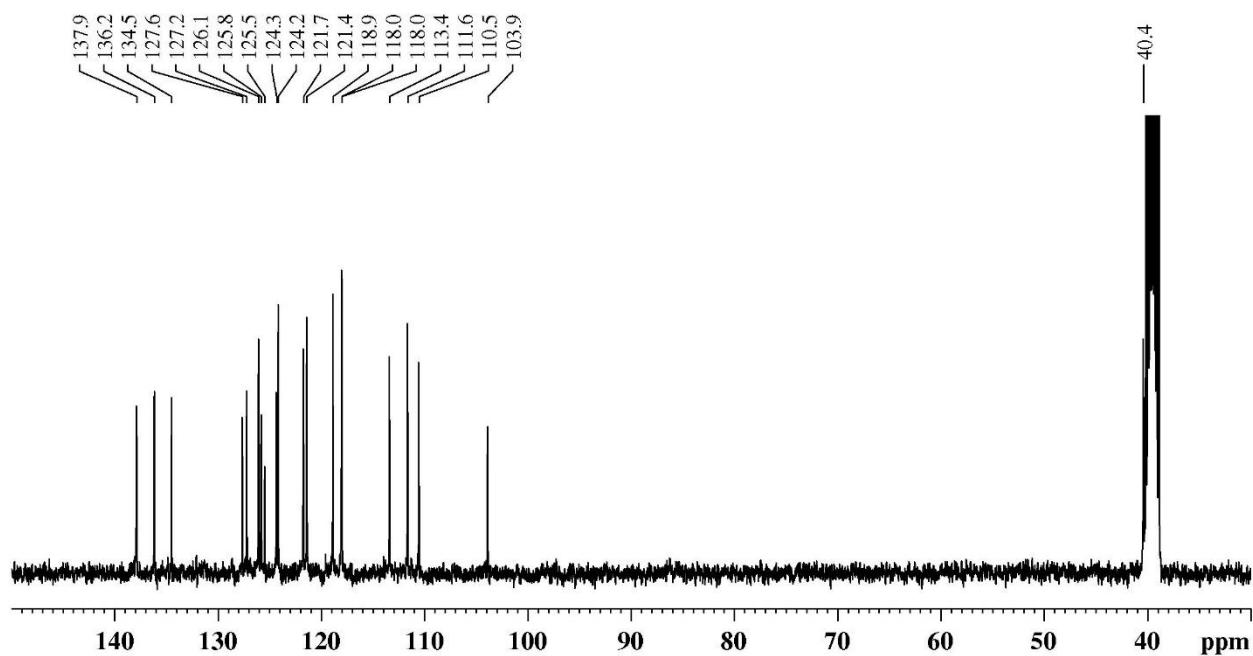
**Figure S76.** 3-(1-((1*H*-Indol-3-yl)methyl)-1*H*-imidazol-5-yl)-5-chloro-1*H*-indole (**76**)



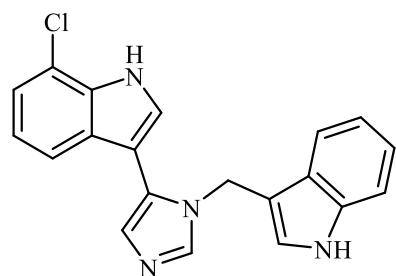
<sup>1</sup>H NMR (DMSO-*d*<sub>6</sub>, 400 MHz):



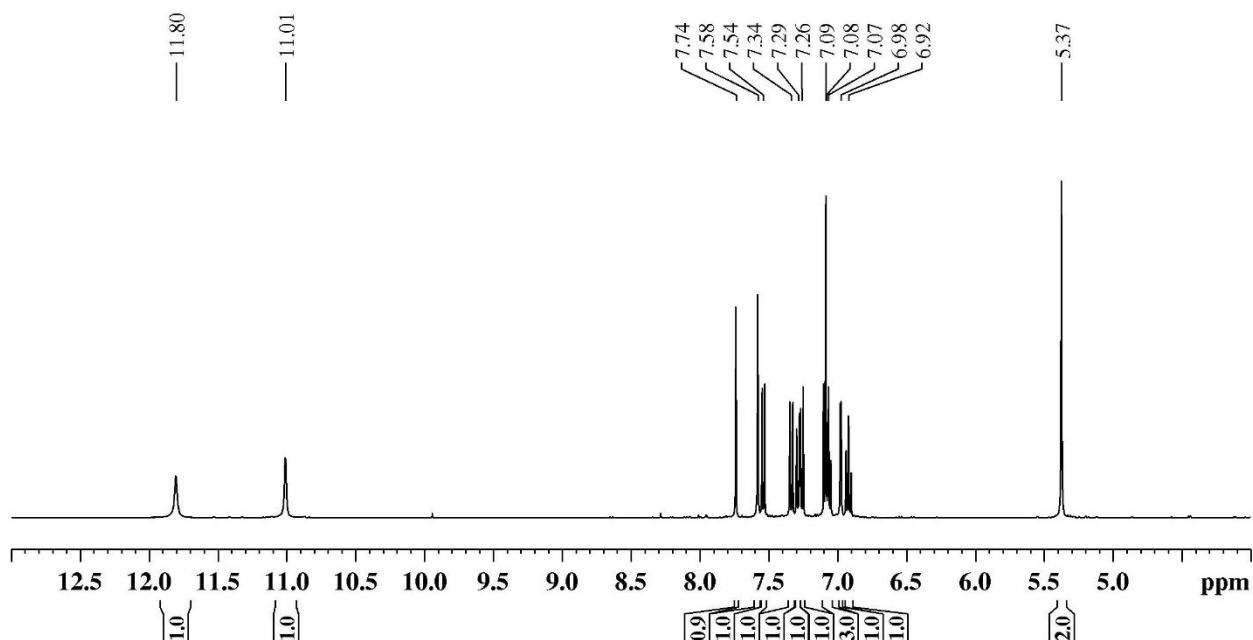
<sup>13</sup>C NMR (DMSO-*d*<sub>6</sub>, 100 MHz):



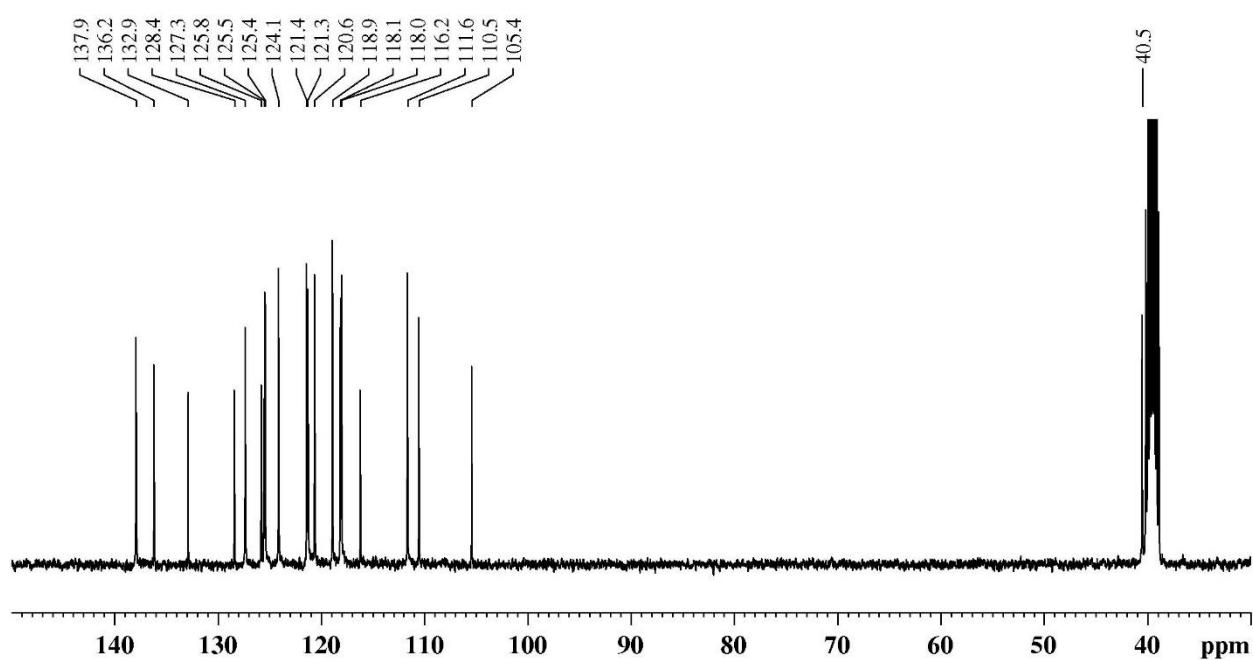
**Figure S77.** 3-((1*H*-Indol-3-yl)methyl)-1*H*-imidazol-5-yl)-7-chloro-1*H*-indole (77)



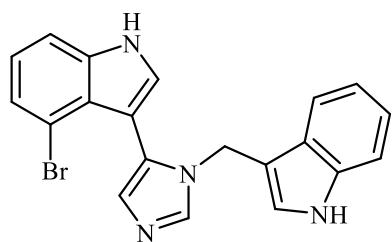
<sup>1</sup>H NMR (DMSO-*d*<sub>6</sub>, 400 MHz):



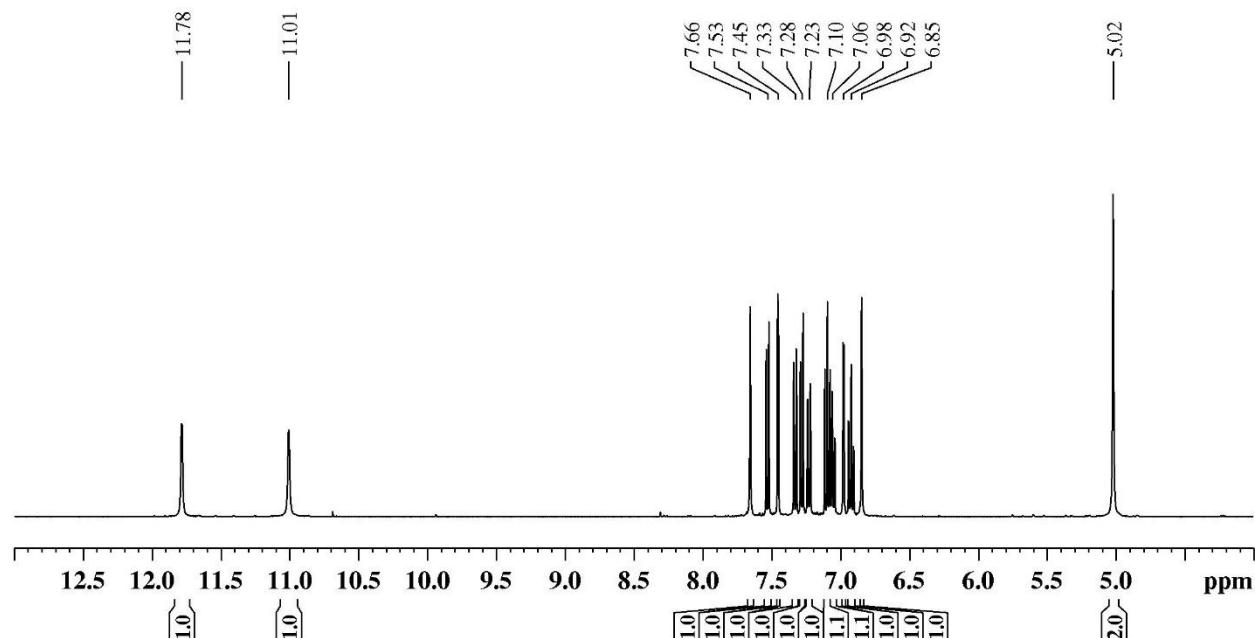
<sup>13</sup>C NMR (DMSO-*d*<sub>6</sub>, 100 MHz):



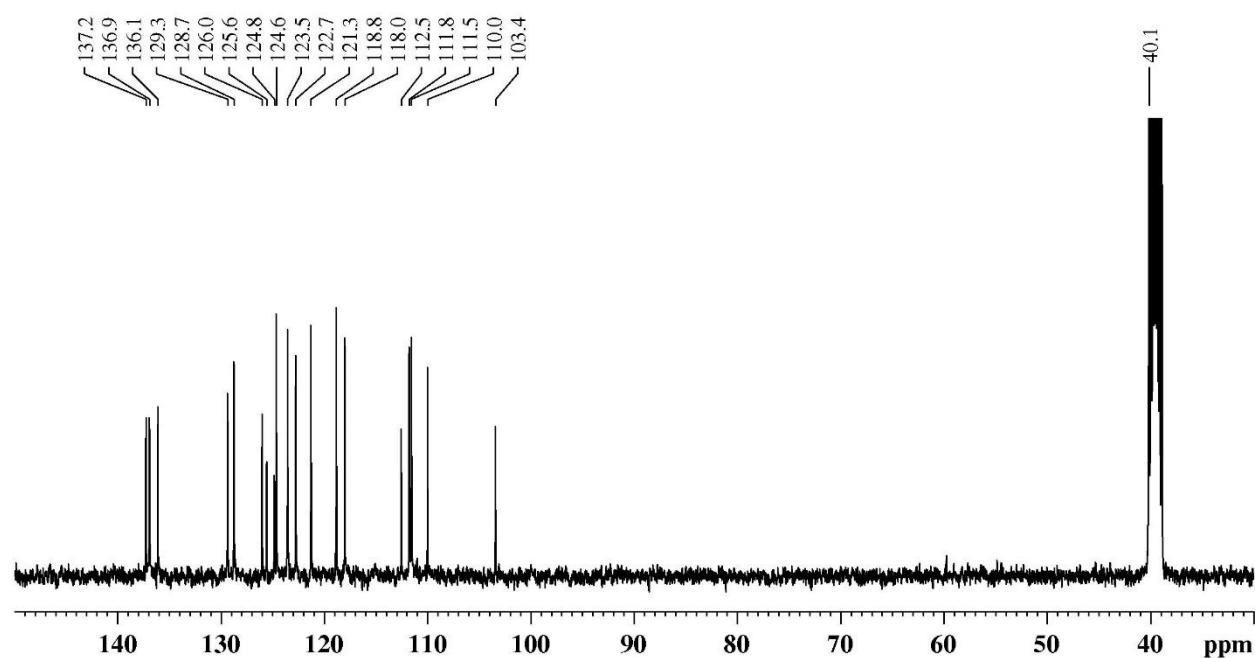
*Figure S78.* 3-((1*H*-Indol-3-yl)methyl)-1*H*-imidazol-5-yl)-4-bromo-1*H*-indole (**78**)



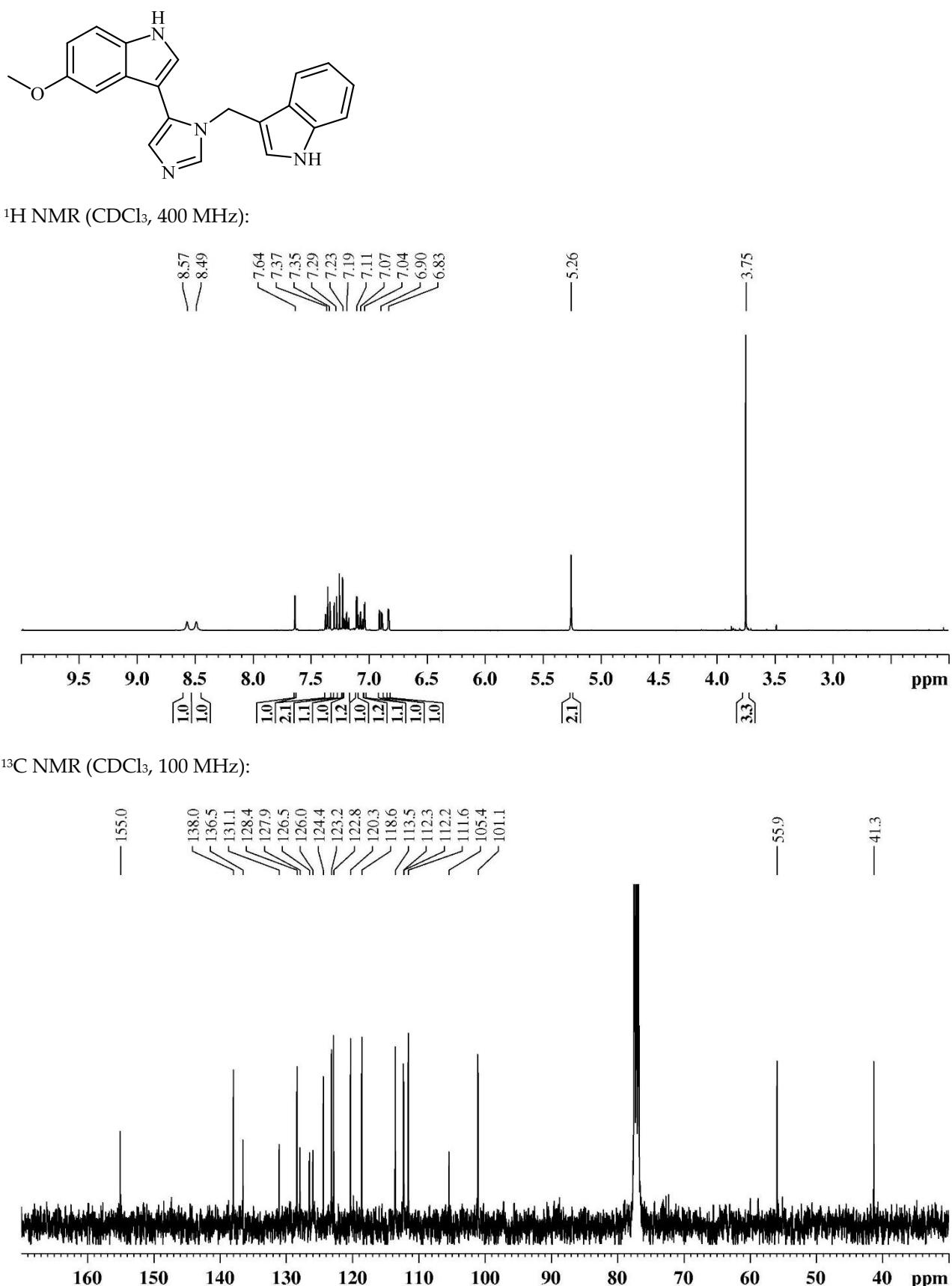
<sup>1</sup>H NMR (DMSO-*d*<sub>6</sub>, 400 MHz):



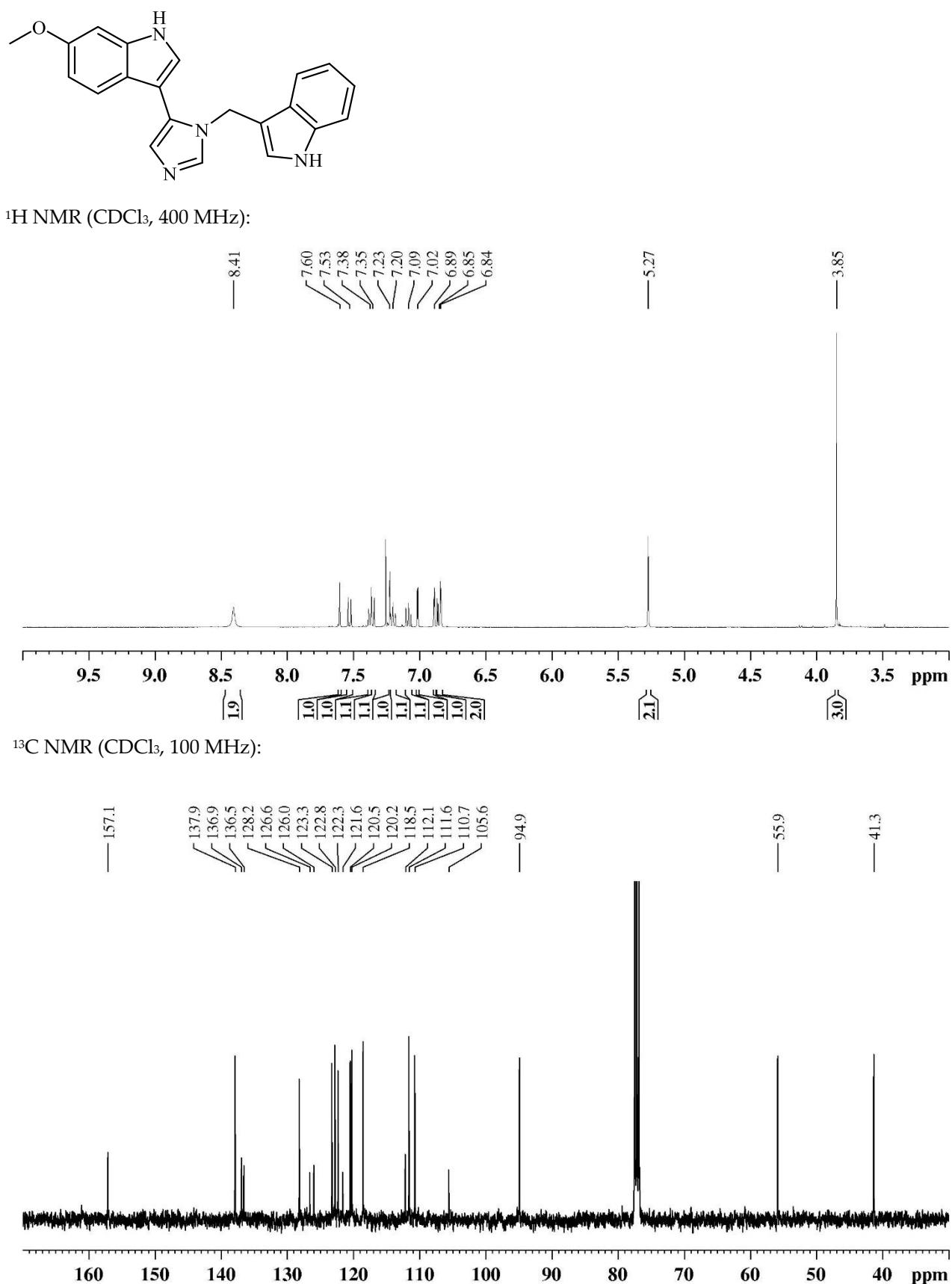
<sup>13</sup>C NMR (DMSO-*d*<sub>6</sub>, 100 MHz):



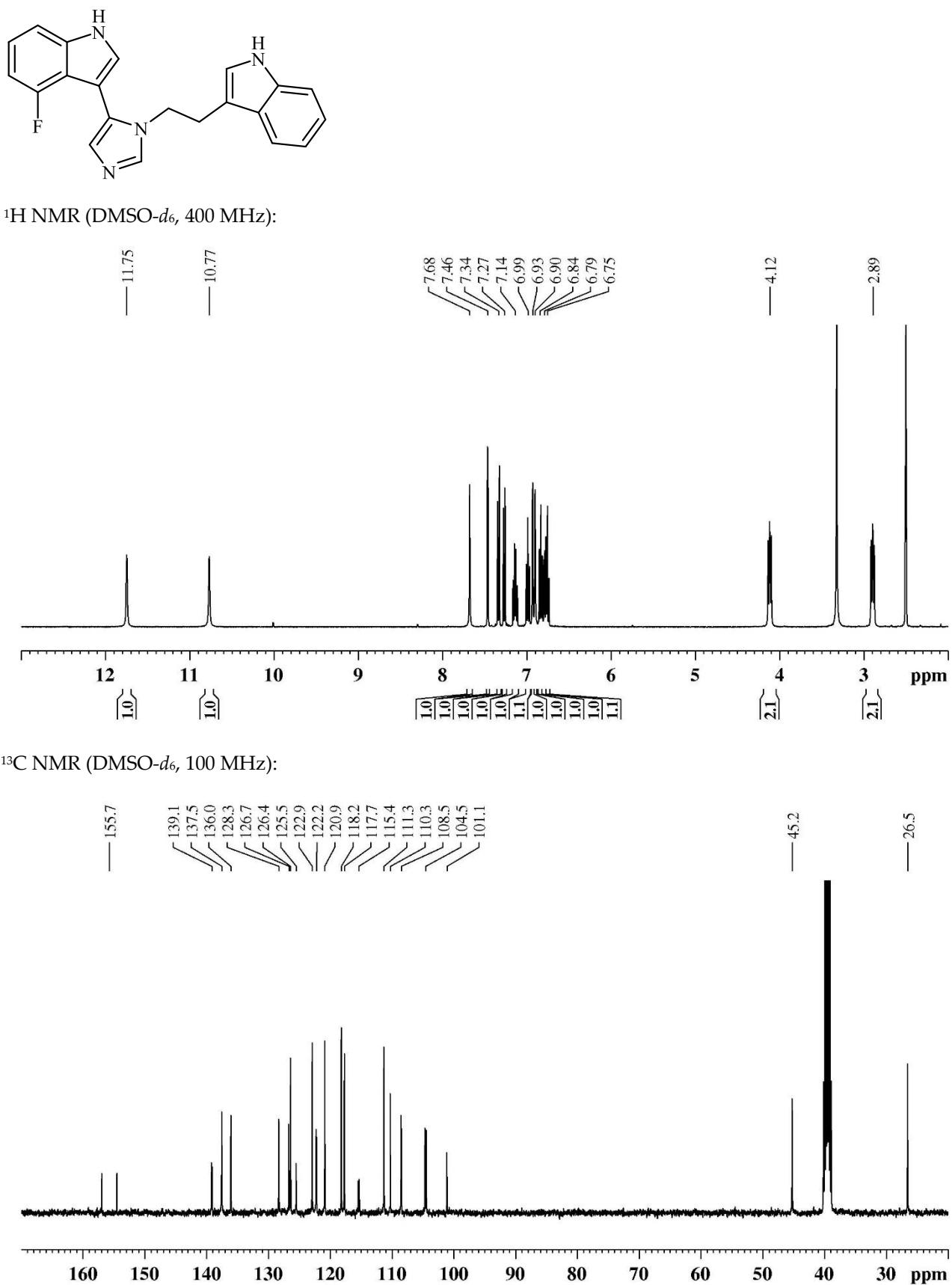
**Figure S79.** 3-((1H-Indol-3-yl)methyl)-1*H*-imidazol-5-yl)-5-methoxy-1*H*-indole (**79**)



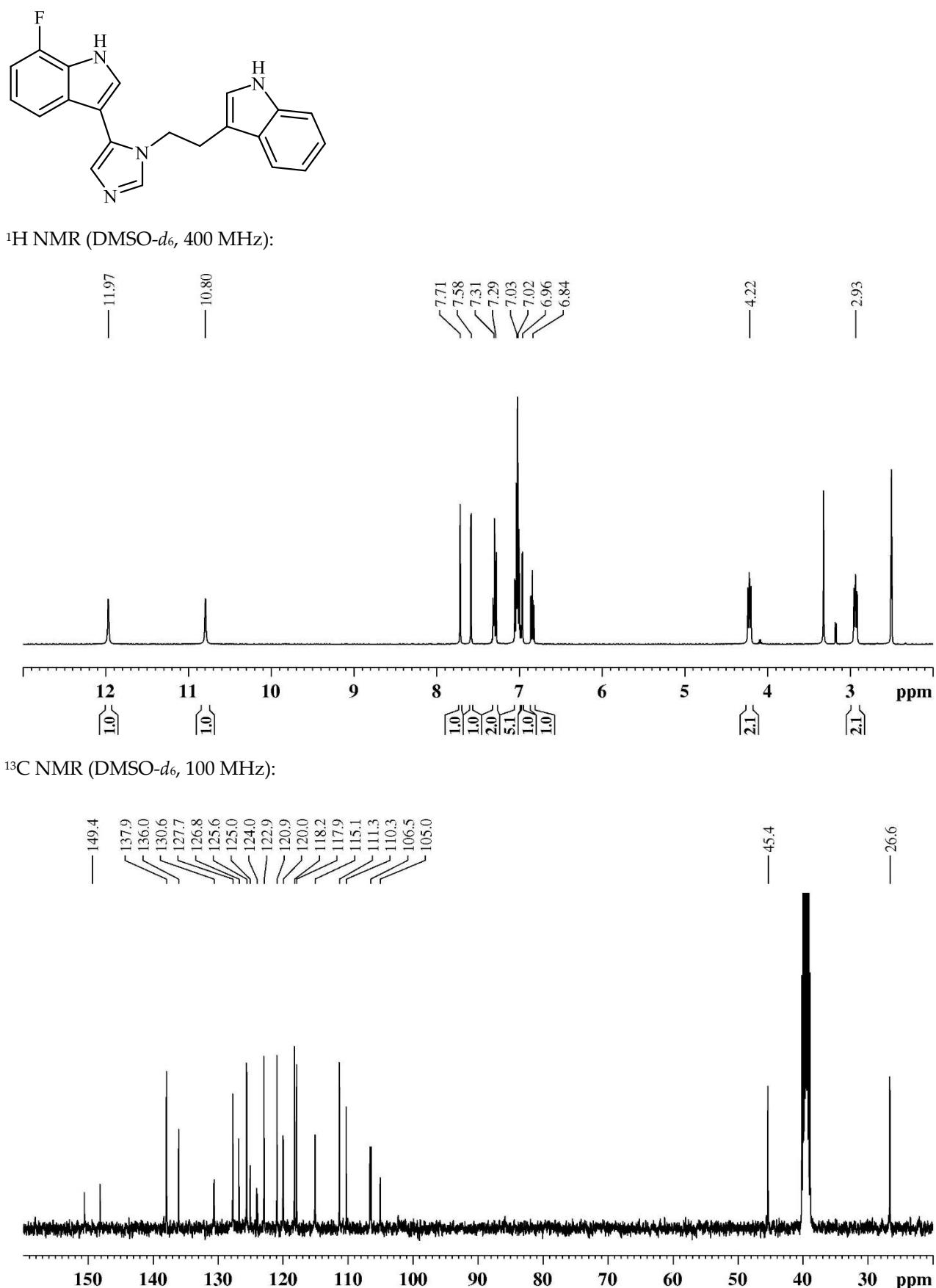
*Figure S80.* 3-(1-((1*H*-Indol-3-yl)methyl)-1*H*-imidazol-5-yl)-6-methoxy-1*H*-indole (**80**)



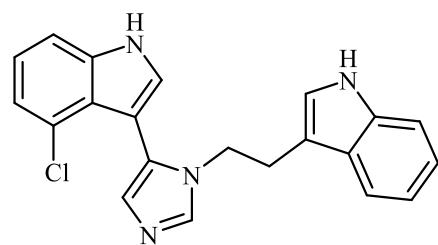
**Figure S81.** 3-(1-(2-(1H-Indol-3-yl)ethyl)-1*H*-imidazol-5-yl)-4-fluoro-1*H*-indole (**81**)



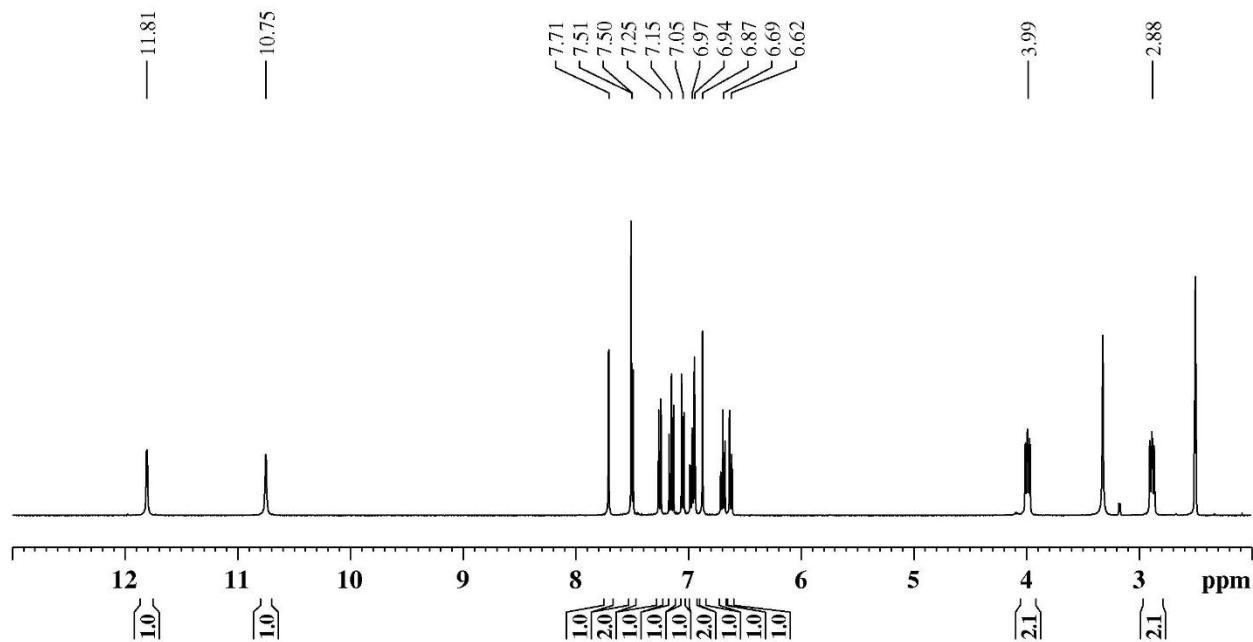
**Figure S82.** 3-(1-(2-(1*H*-Indol-3-yl)ethyl)-1*H*-imidazol-5-yl)-7-fluoro-1*H*-indole (**82**)



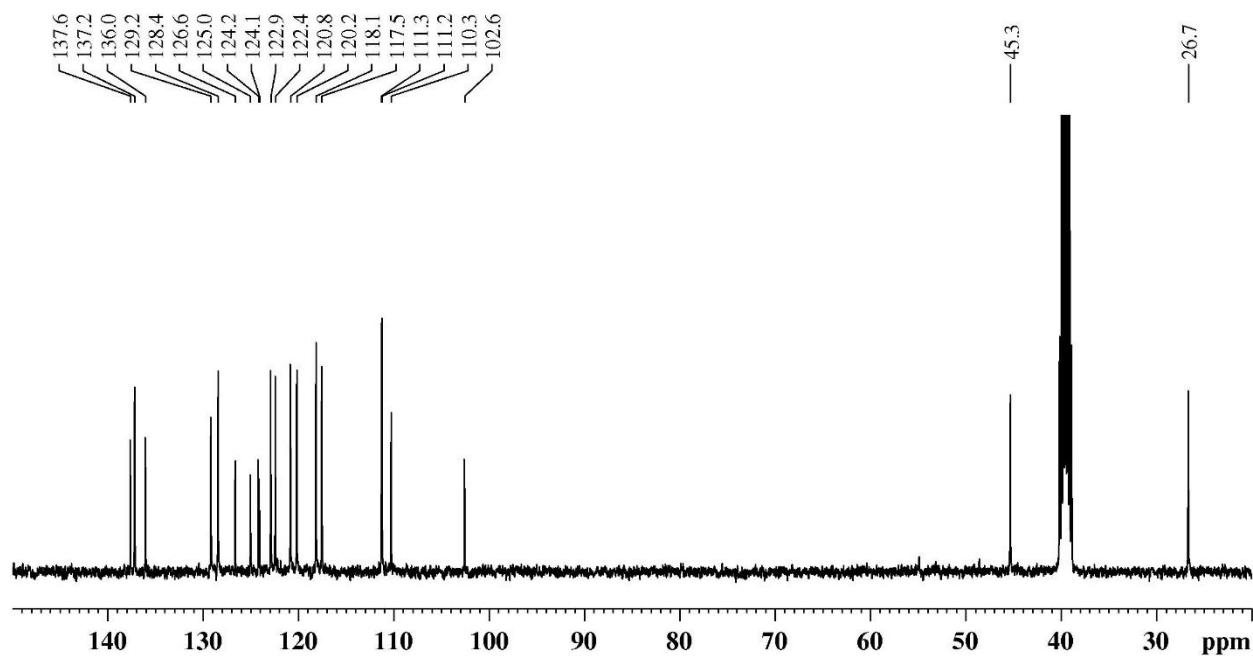
**Figure S83.** 3-(1-(2-(1*H*-Indol-3-yl)ethyl)-1*H*-imidazol-5-yl)-4-chloro-1*H*-indole (**83**)



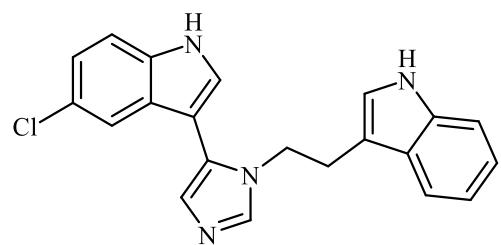
<sup>1</sup>H NMR (DMSO-*d*<sub>6</sub>, 400 MHz):



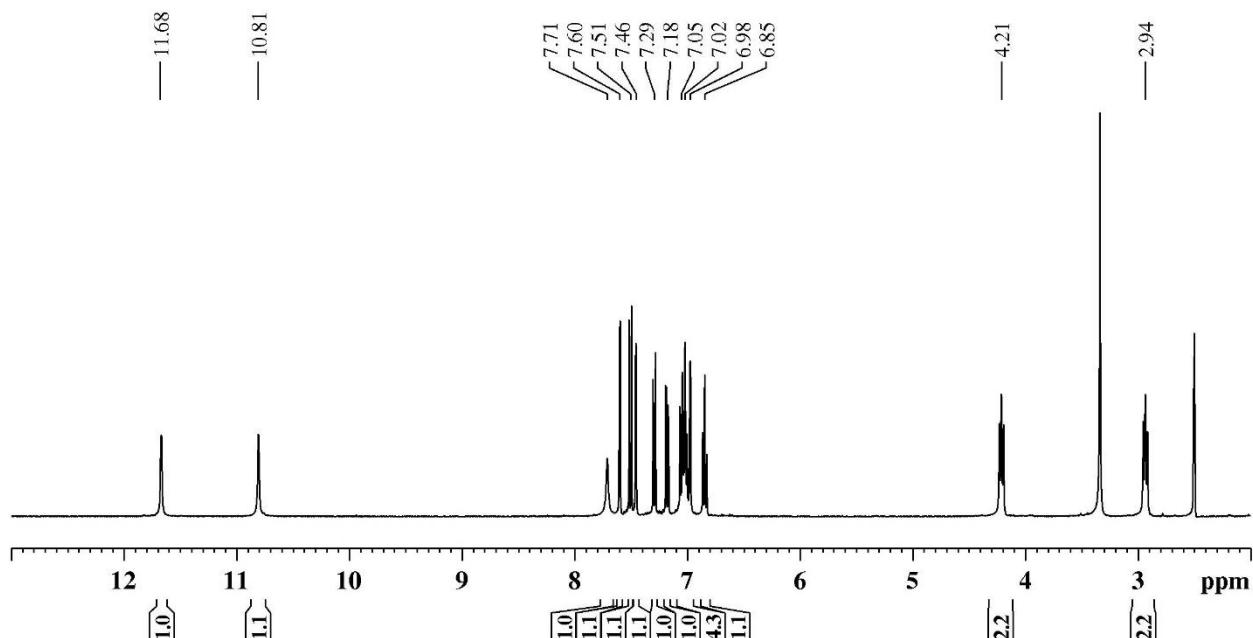
<sup>13</sup>C NMR (DMSO-*d*<sub>6</sub>, 100 MHz):



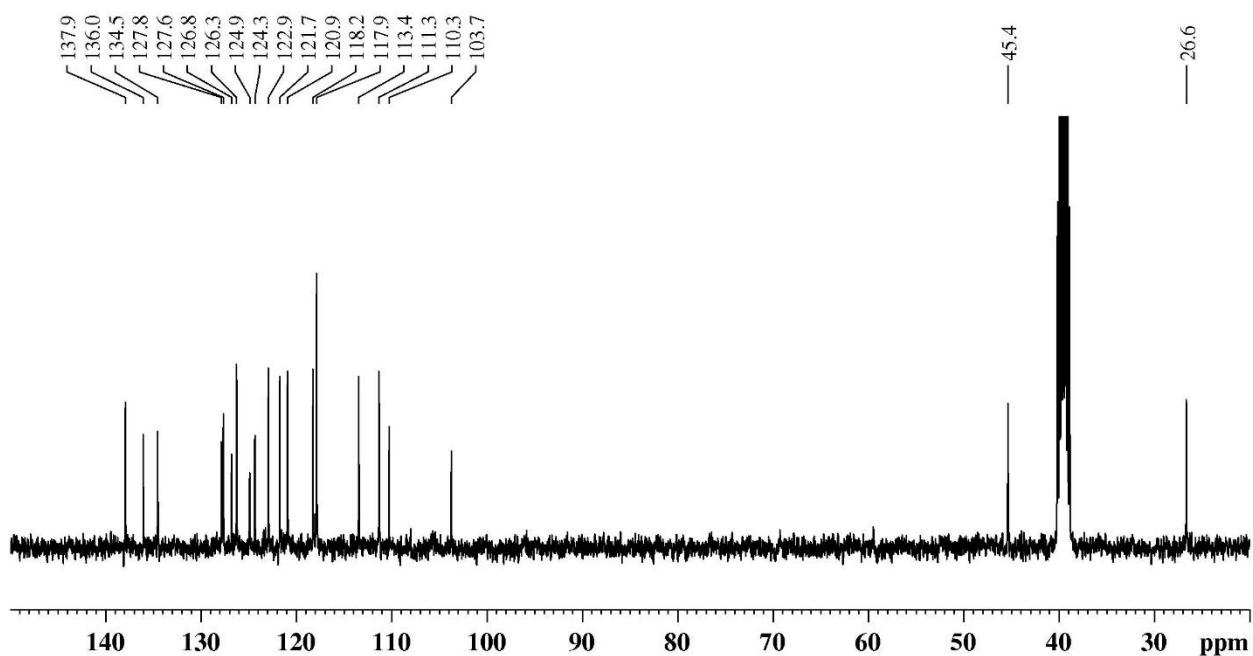
**Figure S84.** 3-(1-(2-(1*H*-Indol-3-yl)ethyl)-1*H*-imidazol-5-yl)-5-chloro-1*H*-indole (**84**)



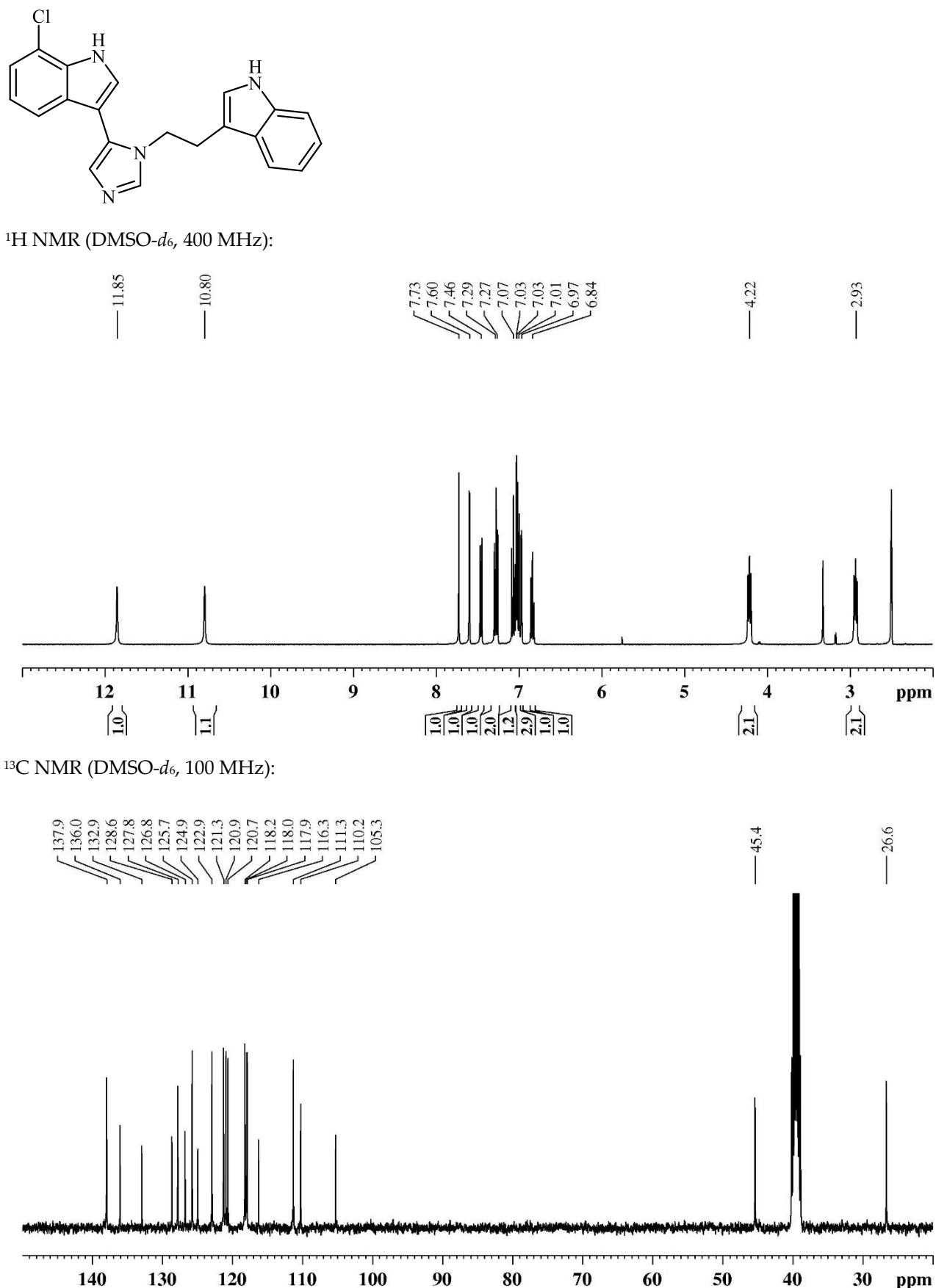
<sup>1</sup>H NMR (DMSO-*d*<sub>6</sub>, 400 MHz):



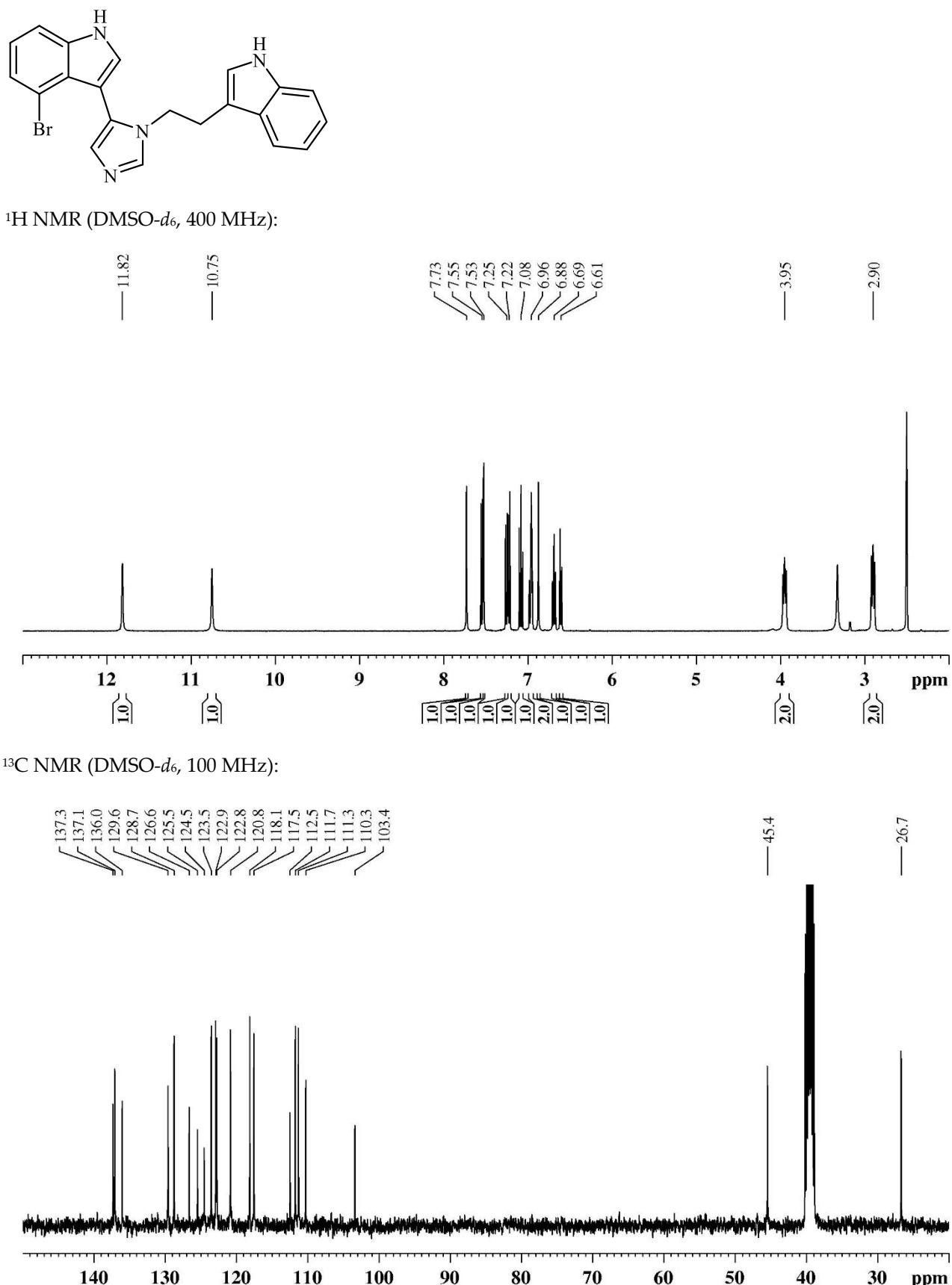
<sup>13</sup>C NMR (DMSO-*d*<sub>6</sub>, 100 MHz):



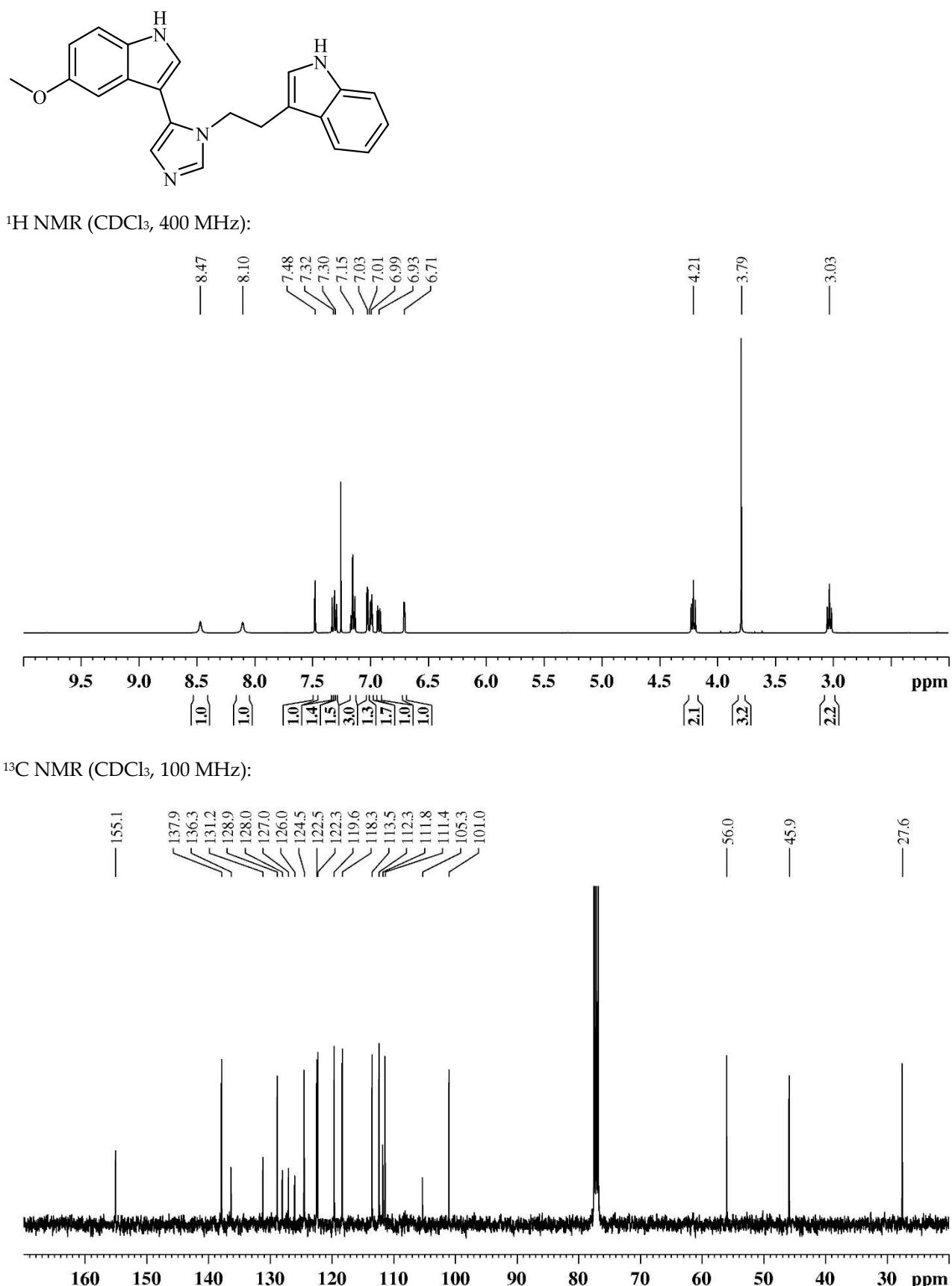
**Figure S85.** 3-(1-(2-(1*H*-Indol-3-yl)ethyl)-1*H*-imidazol-5-yl)-7-chloro-1*H*-indole (**85**)



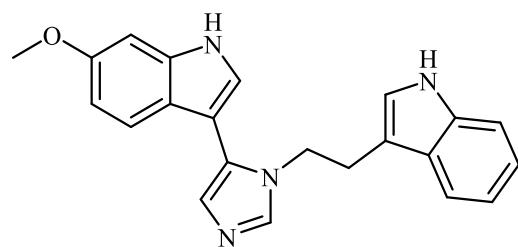
**Figure S86.** 3-(1-(2-(1*H*-Indol-3-yl)ethyl)-1*H*-imidazol-5-yl)-4-bromo-1*H*-indole (**86**)



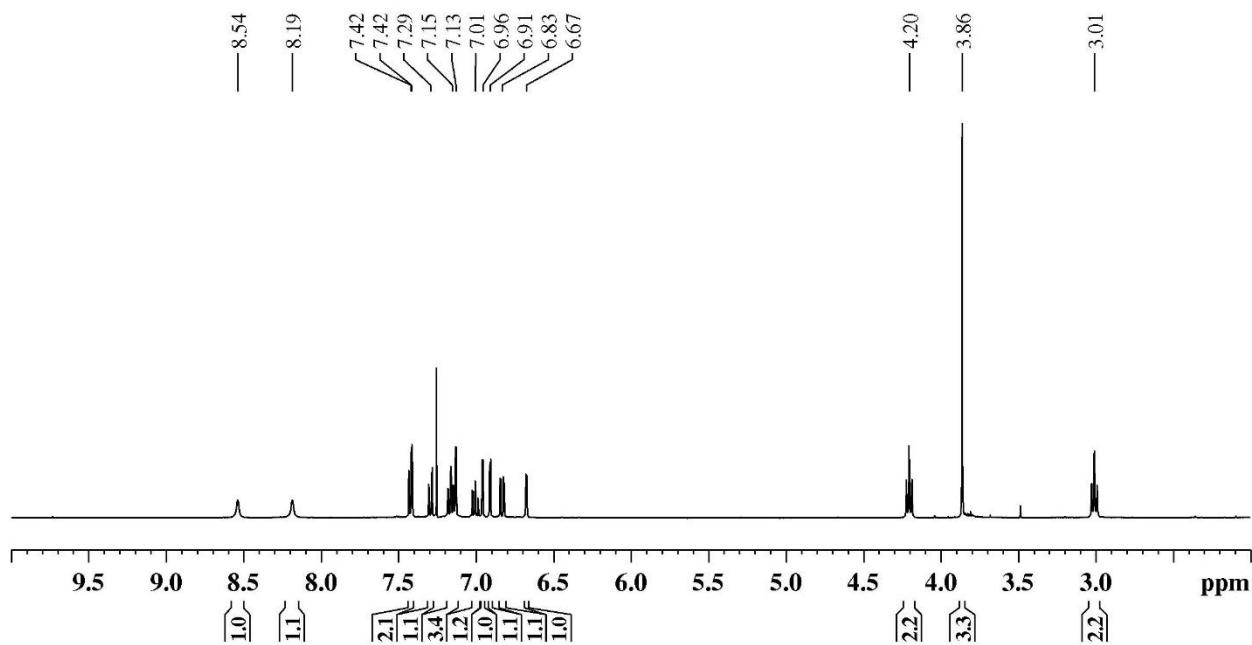
**Figure S87.** 3-(1-(2-(1H-Indol-3-yl)ethyl)-1*H*-imidazol-5-yl)-5-methoxy-1*H*-indole (**87**)



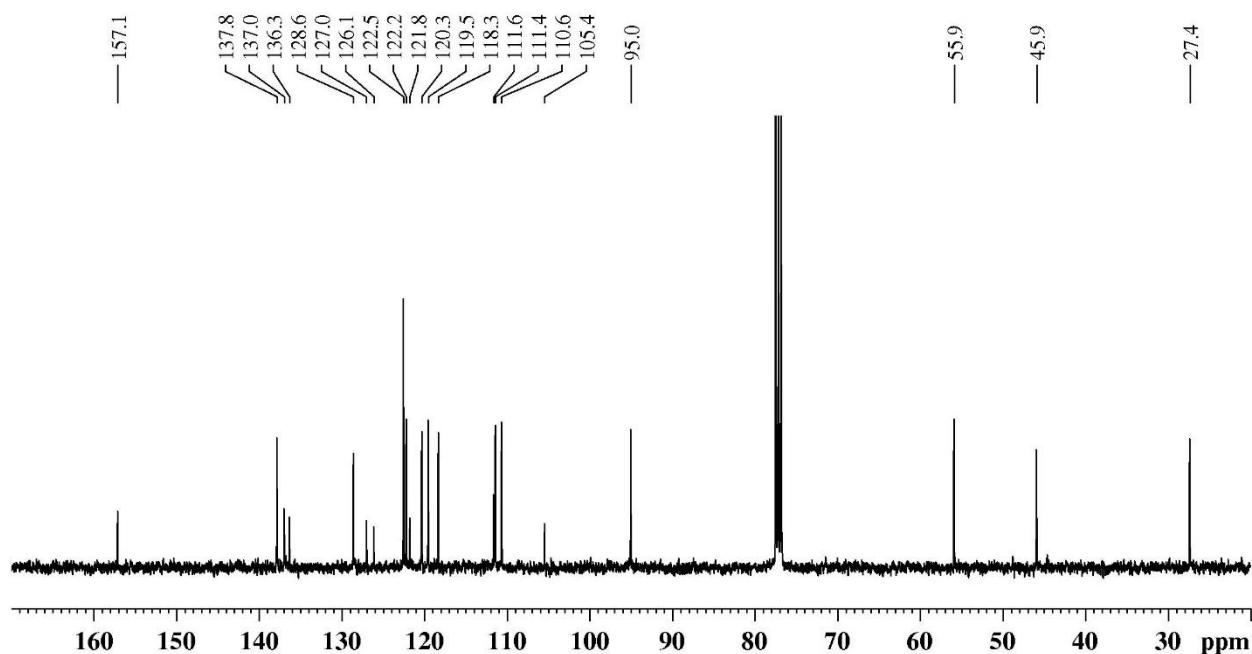
*Figure S88.* 3-(1-(2-(1*H*-Indol-3-yl)ethyl)-1*H*-imidazol-5-yl)-6-methoxy-1*H*-indole (**88**)



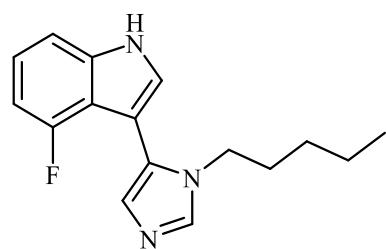
$^1\text{H}$  NMR ( $\text{CDCl}_3$ , 400 MHz):



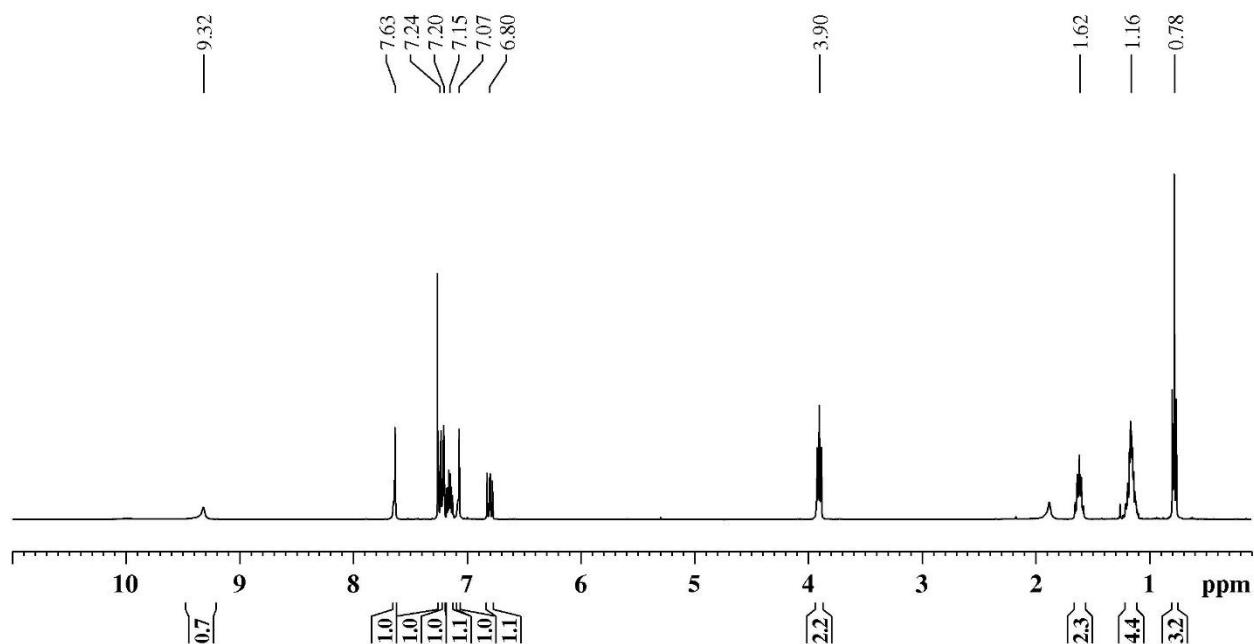
$^{13}\text{C}$  NMR ( $\text{CDCl}_3$ , 100 MHz):



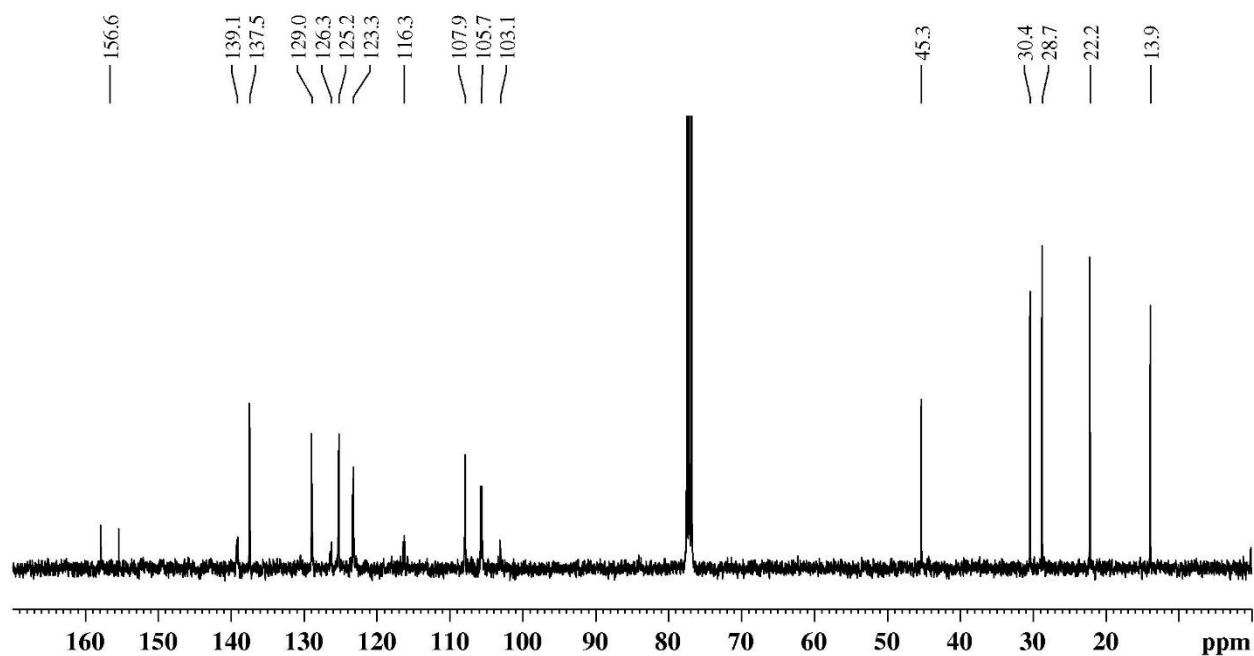
*Figure S89.* 4-Fluoro-3-(1-pentyl-1*H*-imidazol-5-yl)-1*H*-indole (**89**)



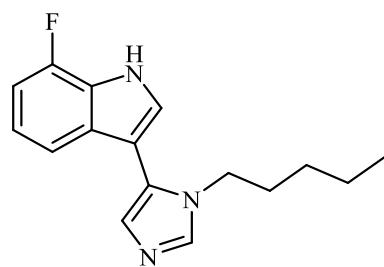
<sup>1</sup>H NMR (CDCl<sub>3</sub>, 400 MHz):



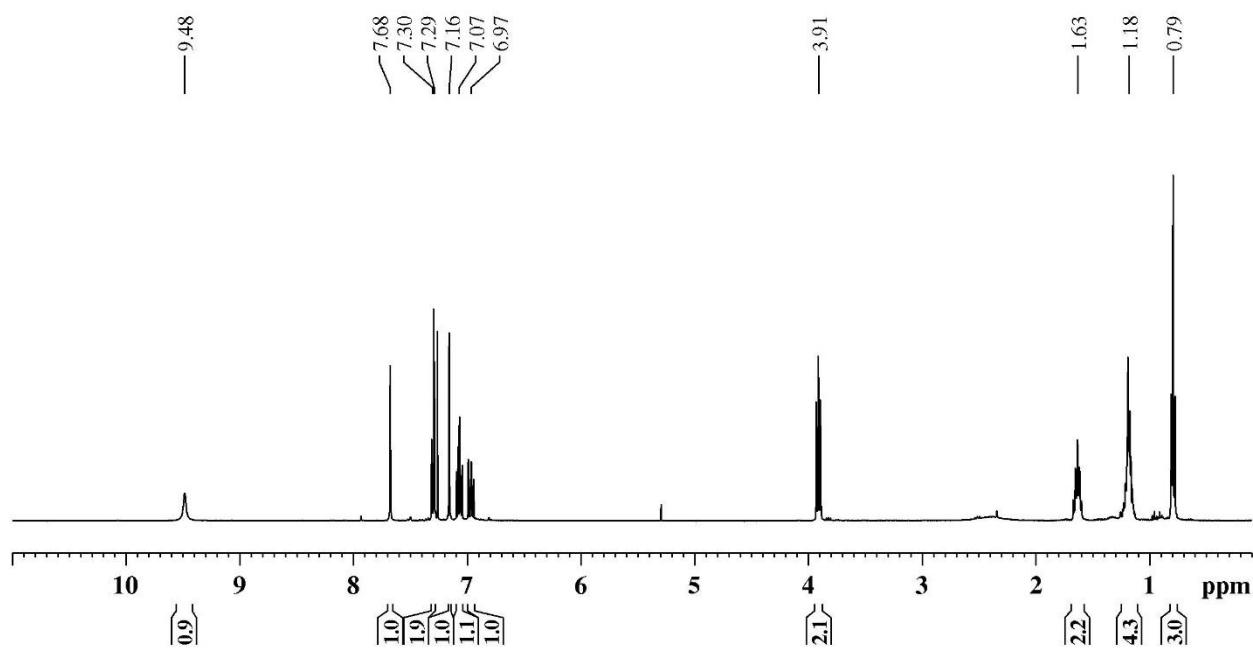
<sup>13</sup>C NMR (CDCl<sub>3</sub>, 100 MHz):



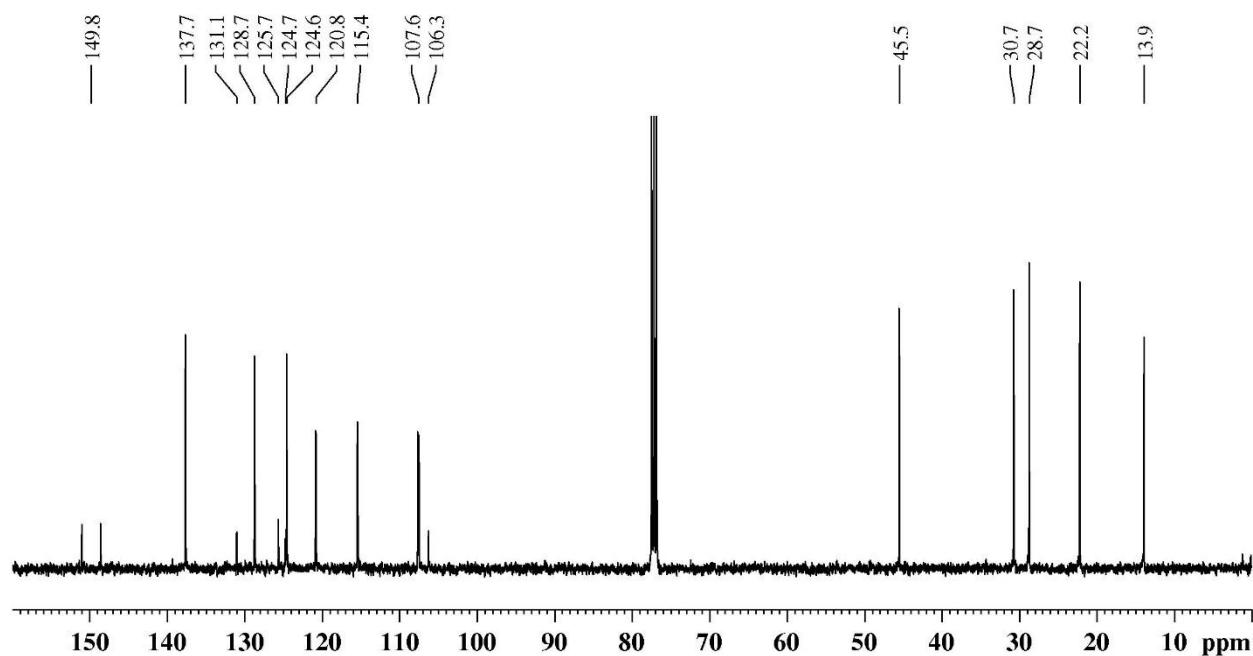
*Figure S90.* 7-Fluoro-3-(1-pentyl-1*H*-imidazol-5-yl)-1*H*-indole (**90**)



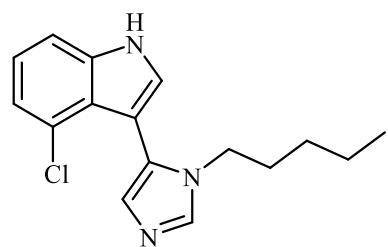
<sup>1</sup>H NMR (CDCl<sub>3</sub>, 400 MHz):



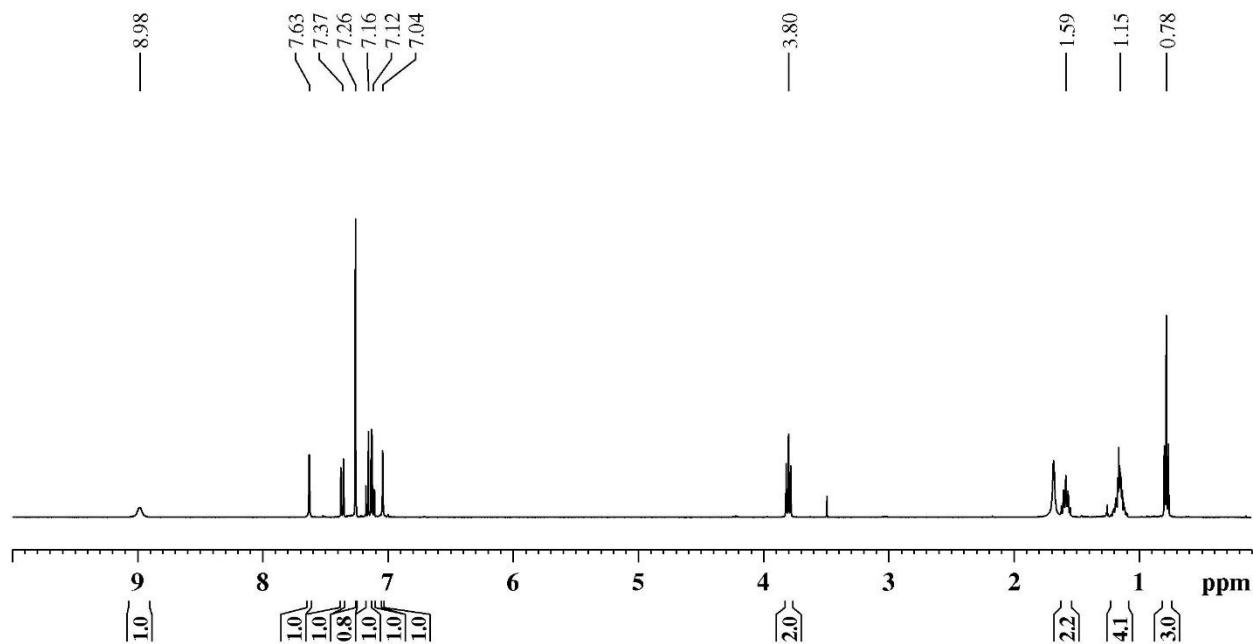
<sup>13</sup>C NMR (CDCl<sub>3</sub>, 100 MHz):



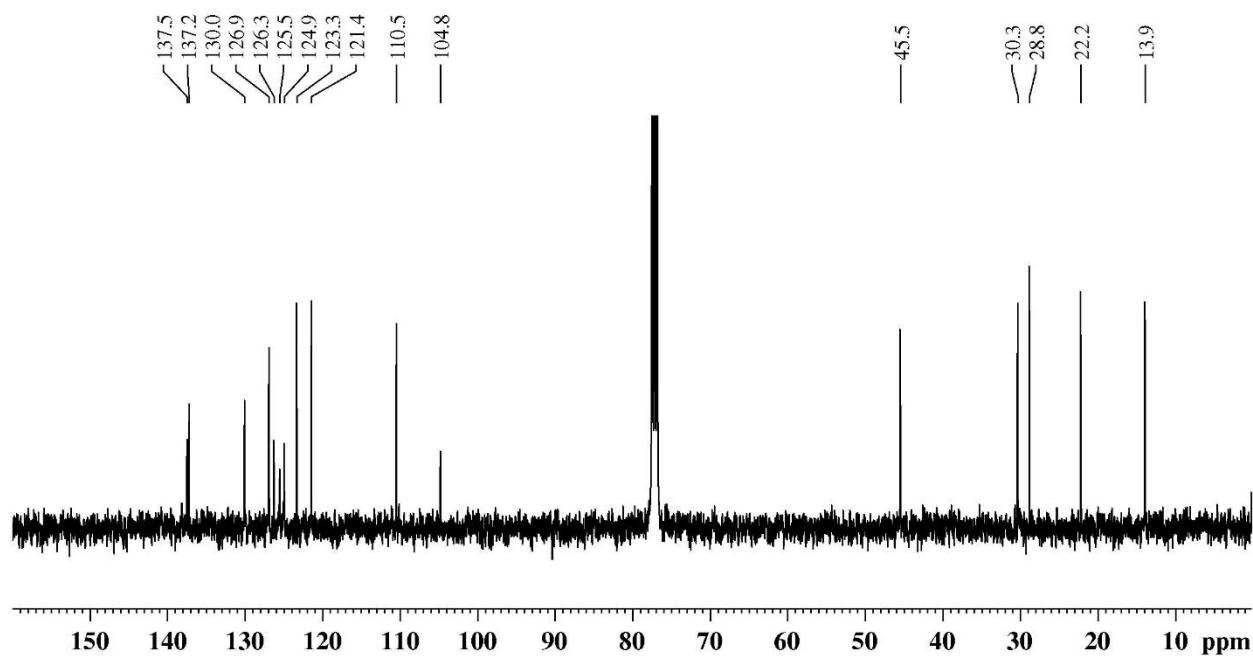
**Figure S91.** 4-Chloro-3-(1-pentyl-1*H*-imidazol-5-yl)-1*H*-indole (**91**)



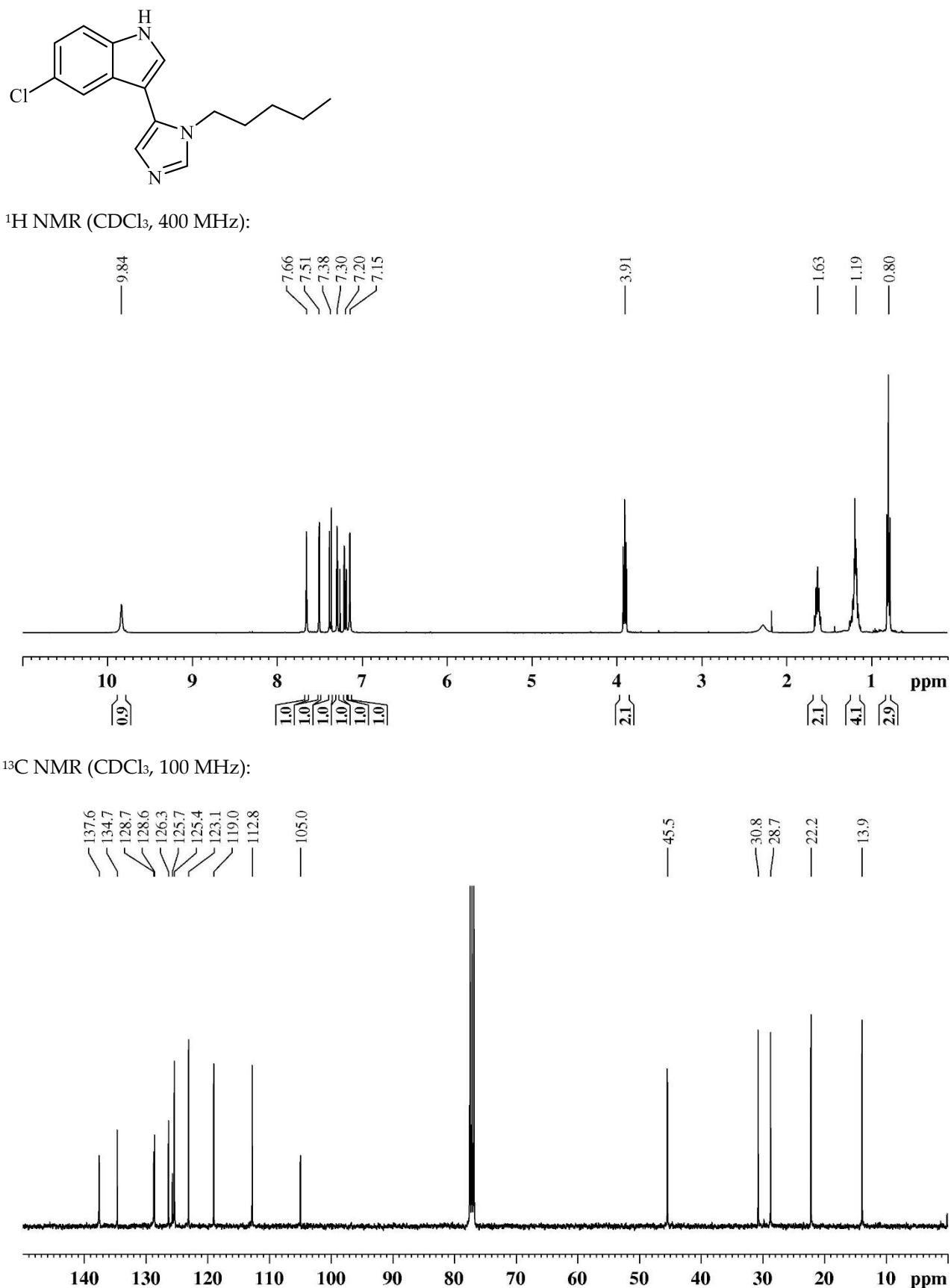
<sup>1</sup>H NMR (CDCl<sub>3</sub>, 400 MHz):



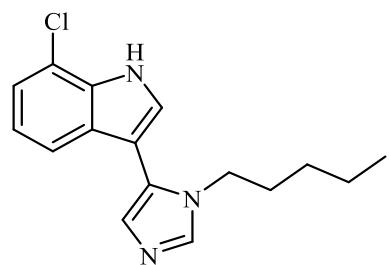
<sup>13</sup>C NMR (CDCl<sub>3</sub>, 100 MHz):



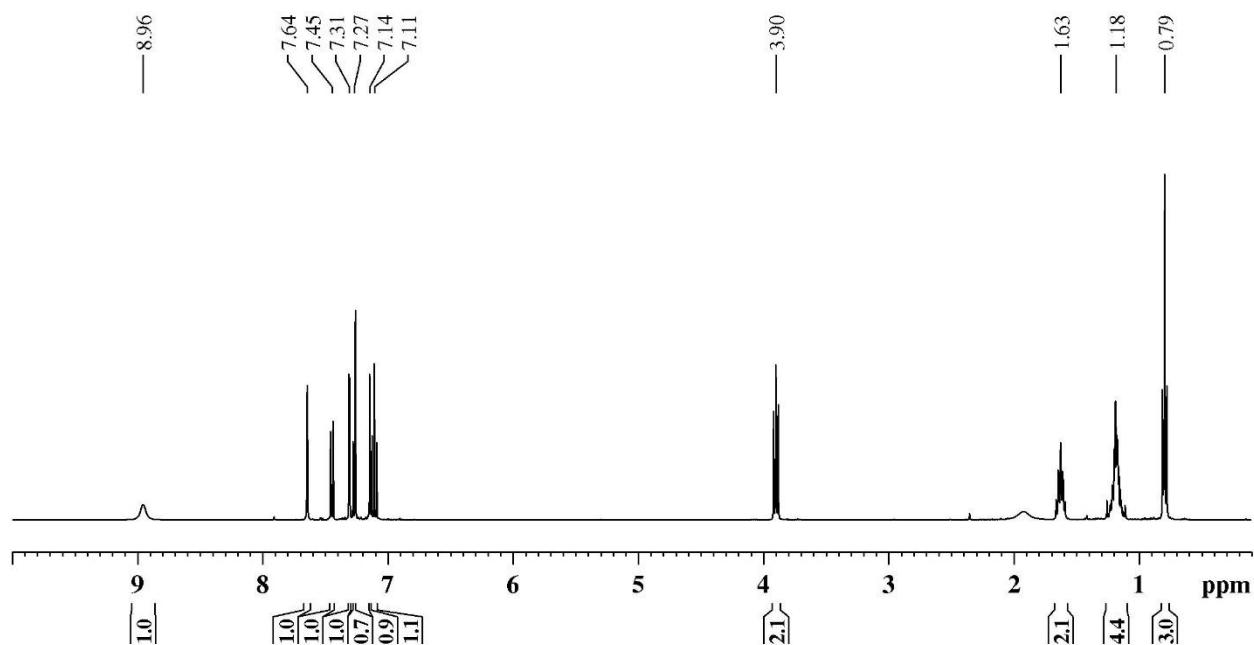
**Figure S92.** 5-Chloro-3-(1-pentyl-1*H*-imidazol-5-yl)-1*H*-indole (**92**)



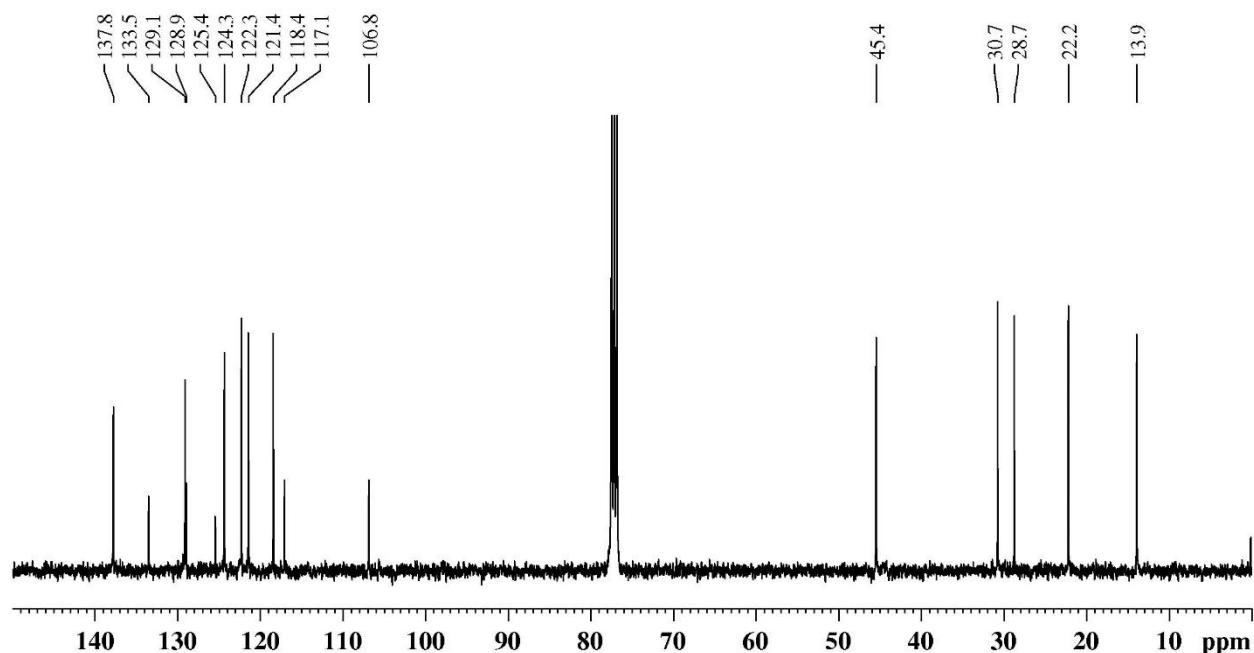
*Figure S93.* 7-Chloro-3-(1-pentyl-1*H*-imidazol-5-yl)-1*H*-indole (**93**)



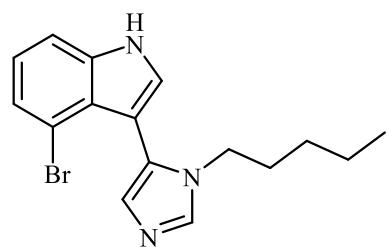
<sup>1</sup>H NMR (CDCl<sub>3</sub>, 400 MHz):



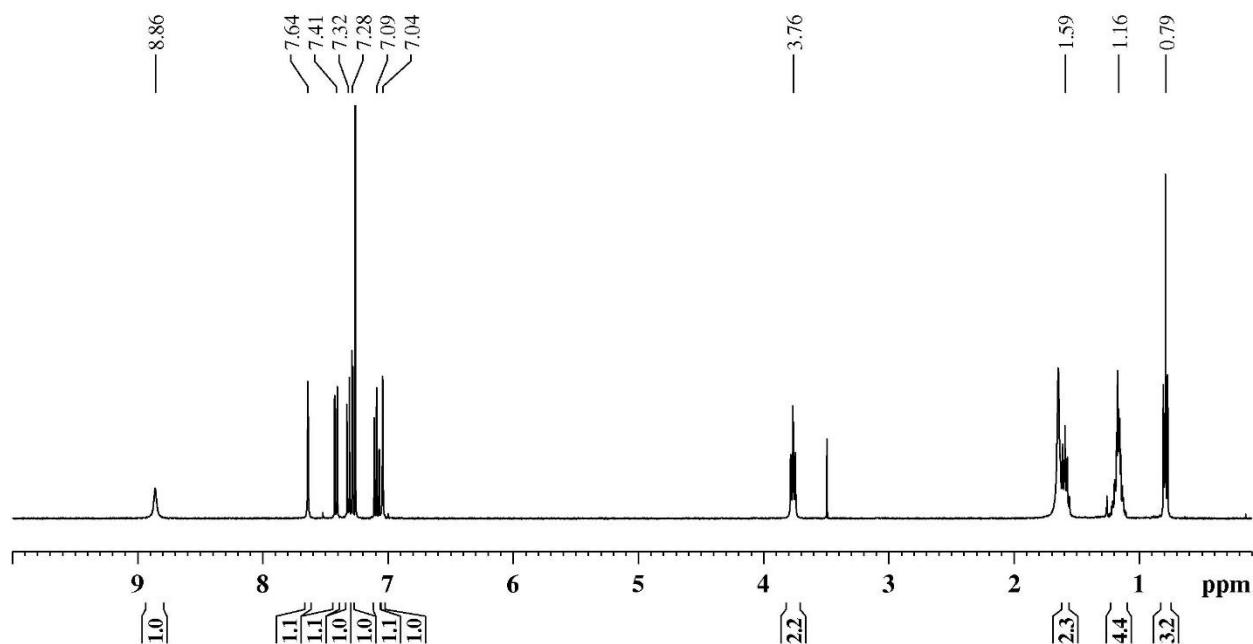
<sup>13</sup>C NMR (CDCl<sub>3</sub>, 100 MHz):



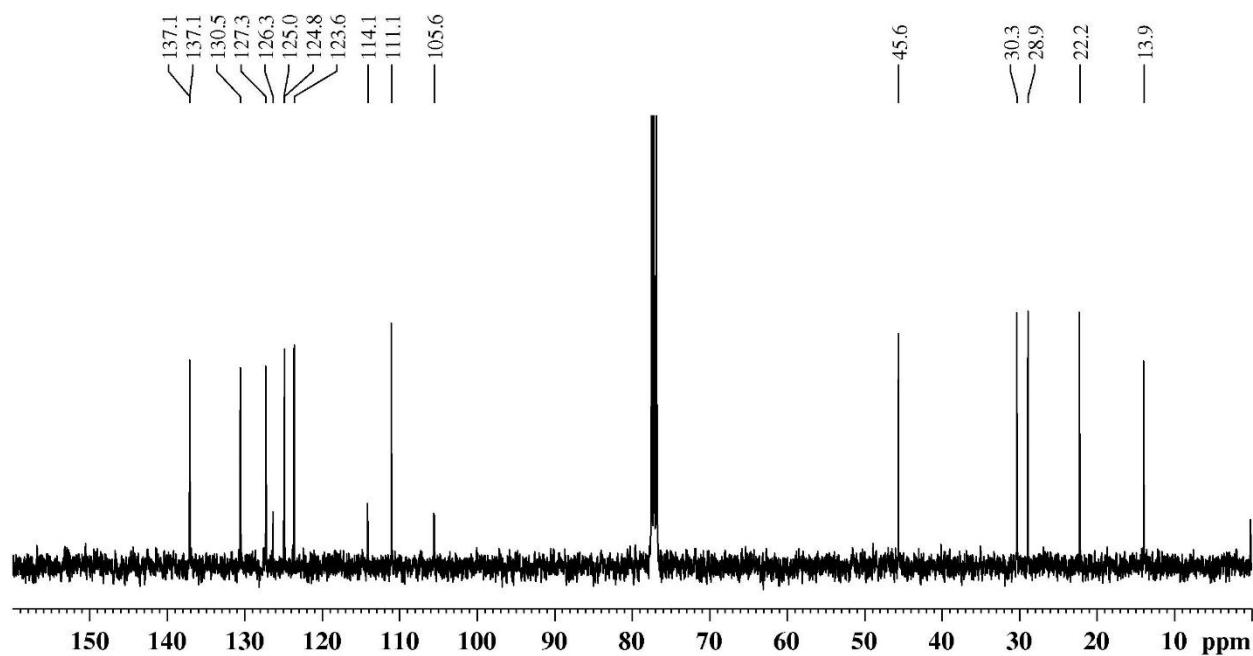
**Figure S94.** 4-Bromo-3-(1-pentyl-1*H*-imidazol-5-yl)-1*H*-indole (**94**)



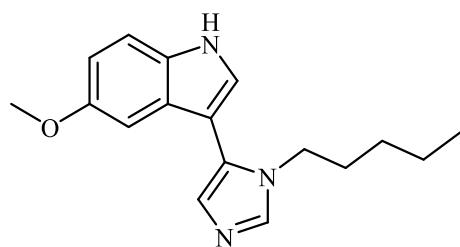
<sup>1</sup>H NMR (CDCl<sub>3</sub>, 400 MHz):



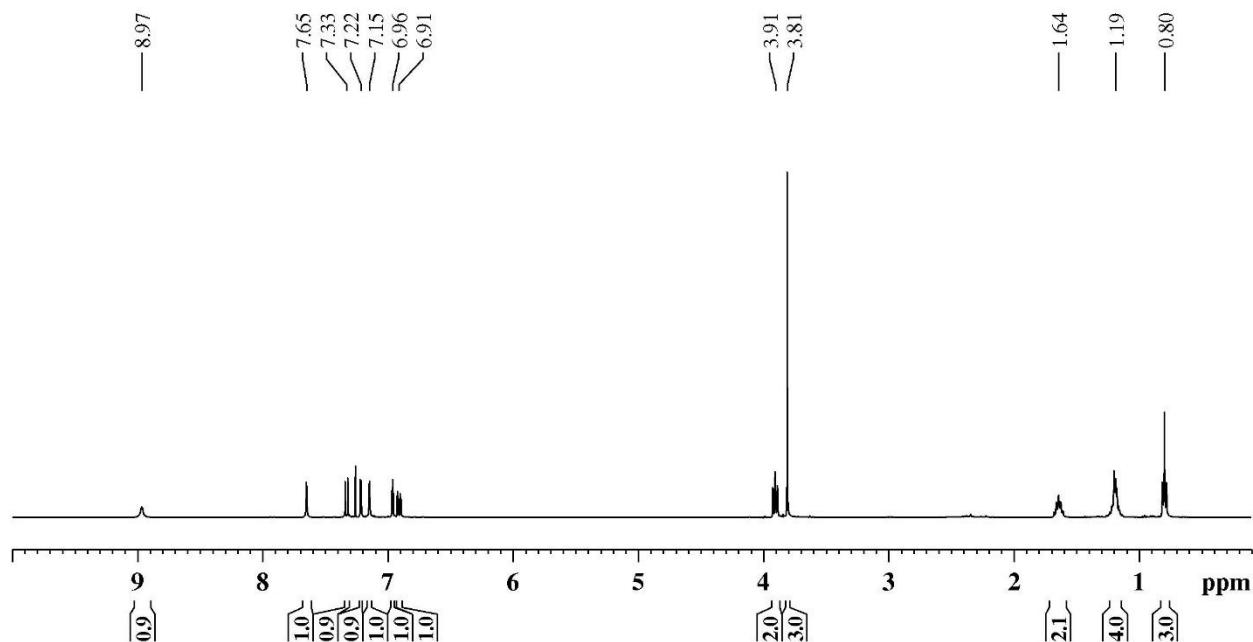
<sup>13</sup>C NMR (CDCl<sub>3</sub>, 100 MHz):



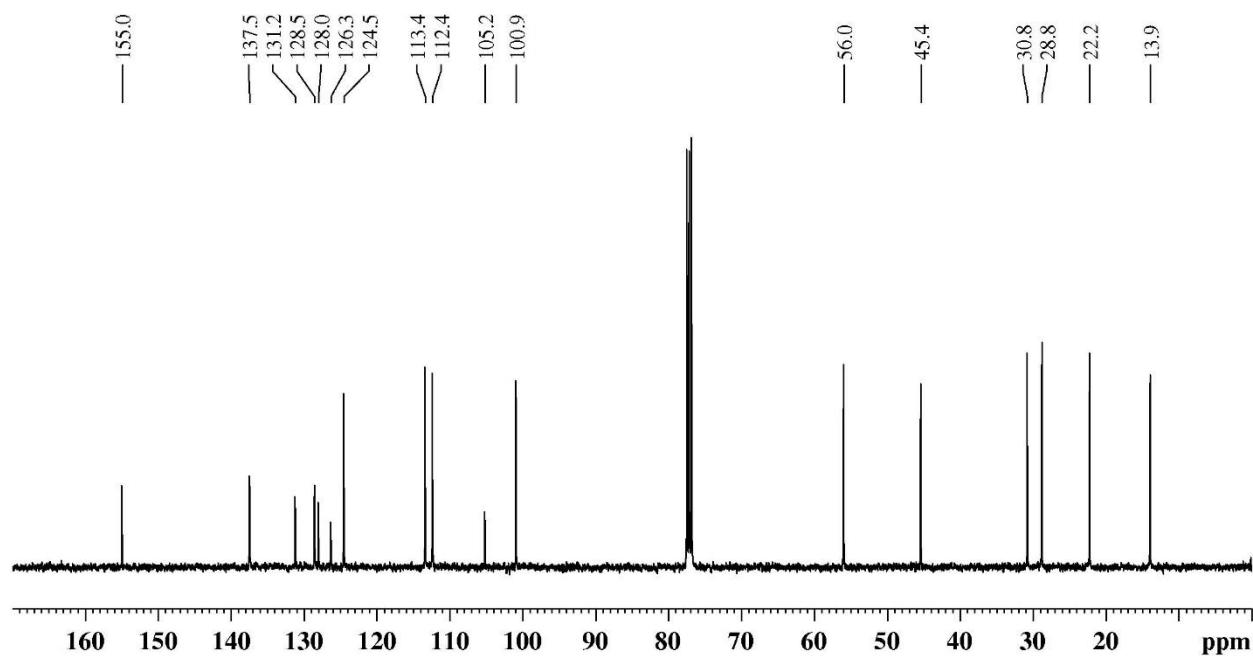
*Figure S95.* 5-Methoxy-3-(1-pentyl-1*H*-imidazol-5-yl)-1*H*-indole (**95**)



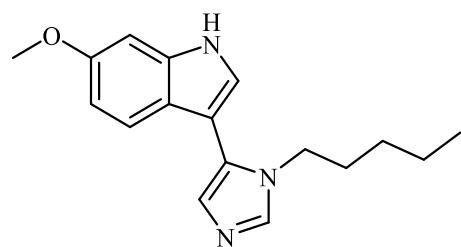
<sup>1</sup>H NMR (CDCl<sub>3</sub>, 400 MHz):



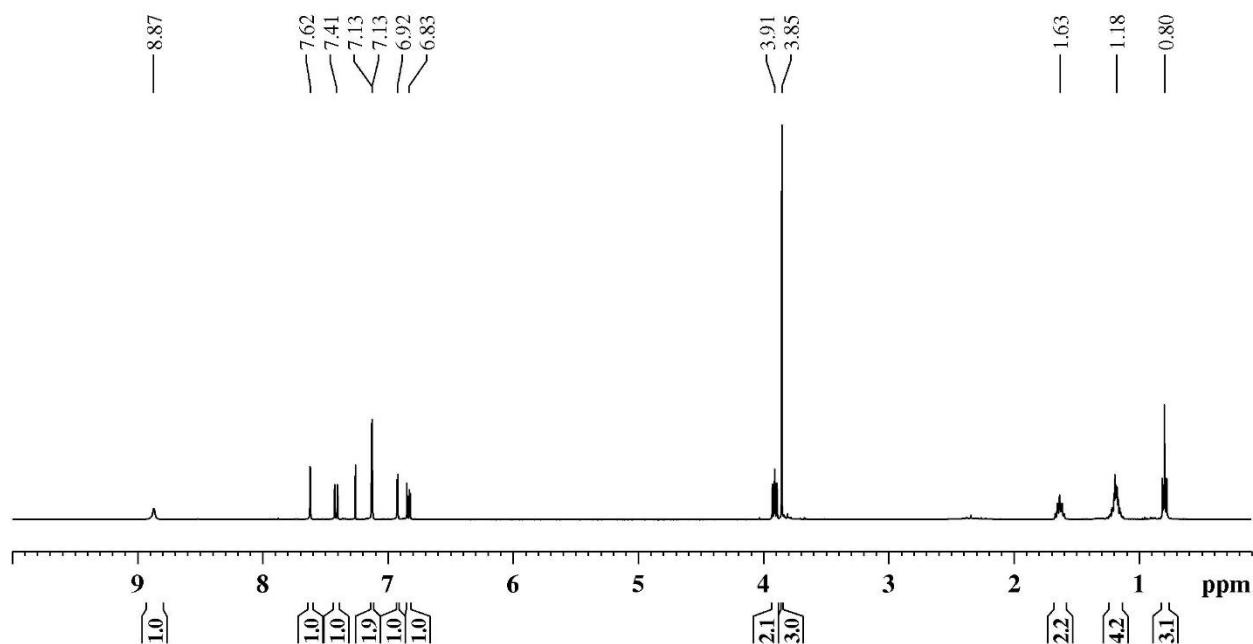
<sup>13</sup>C NMR (CDCl<sub>3</sub>, 100 MHz):



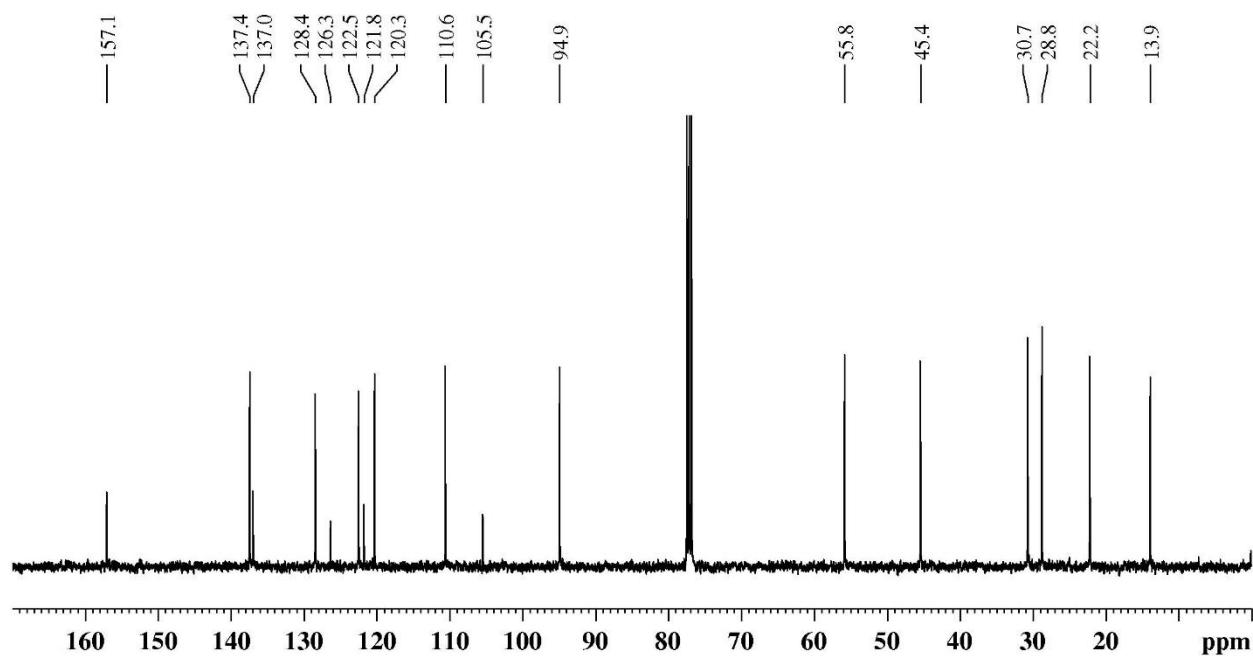
*Figure S96.* 6-Methoxy-3-(1-pentyl-1*H*-imidazol-5-yl)-1*H*-indole (**96**)



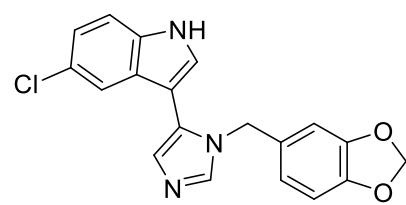
<sup>1</sup>H NMR (CDCl<sub>3</sub>, 400 MHz):



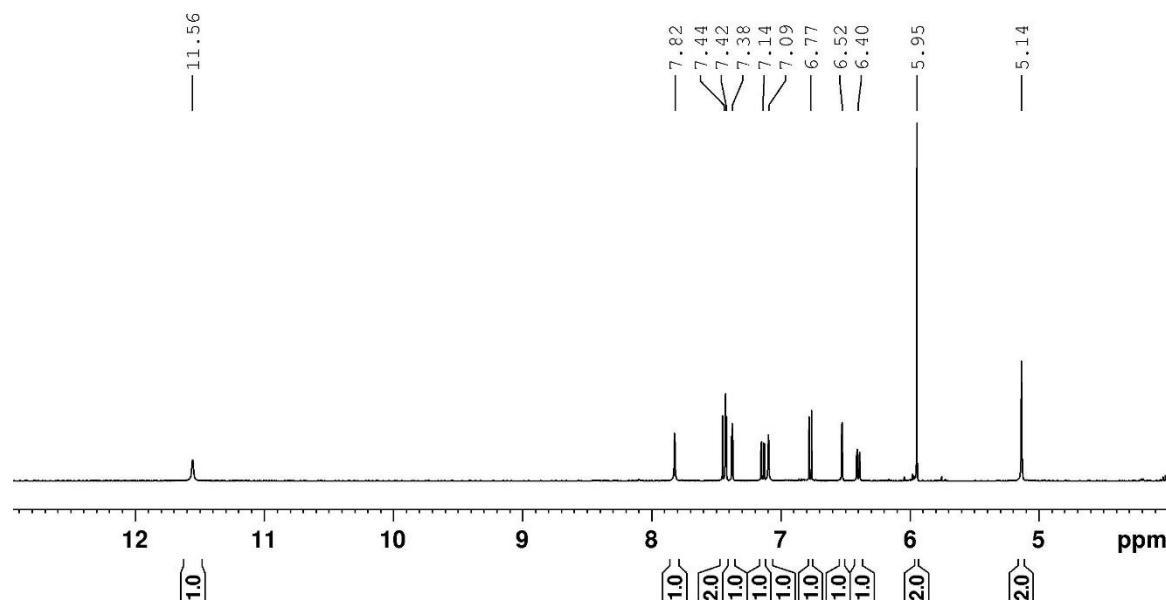
<sup>13</sup>C NMR (CDCl<sub>3</sub>, 100 MHz):



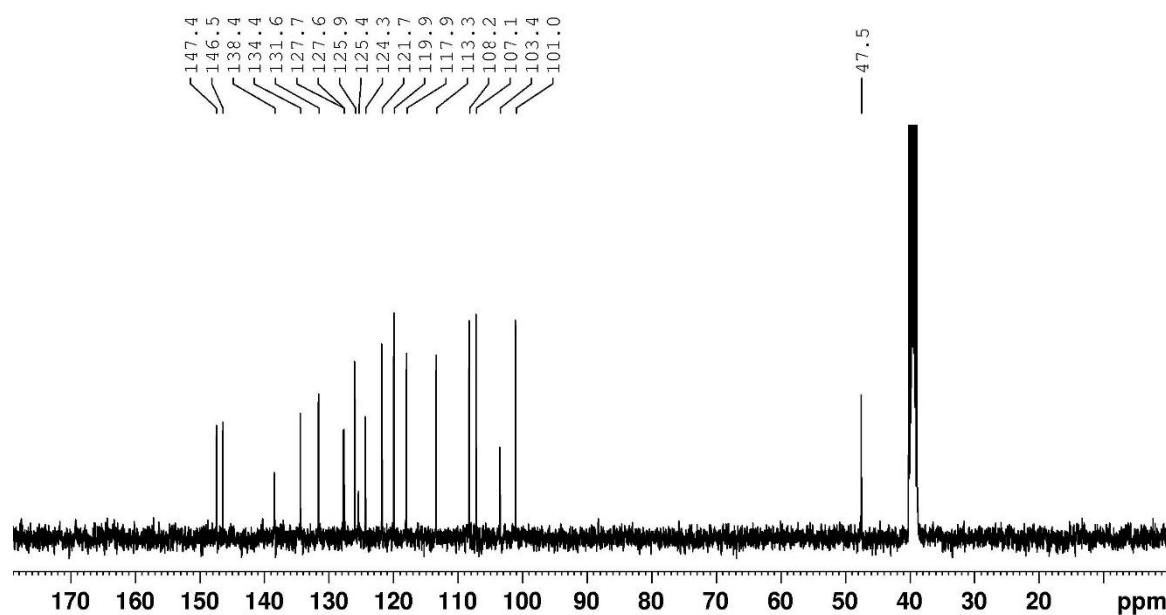
**Figure S97.** 3-(1-(Benzo[*d*][1,3]dioxol-5-ylmethyl)-1*H*-imidazol-5-yl)-5-chloro-1*H*-indole (**97**)



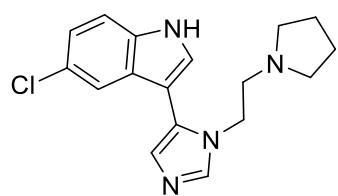
<sup>1</sup>H NMR (DMSO-*d*<sub>6</sub>, 400 MHz):



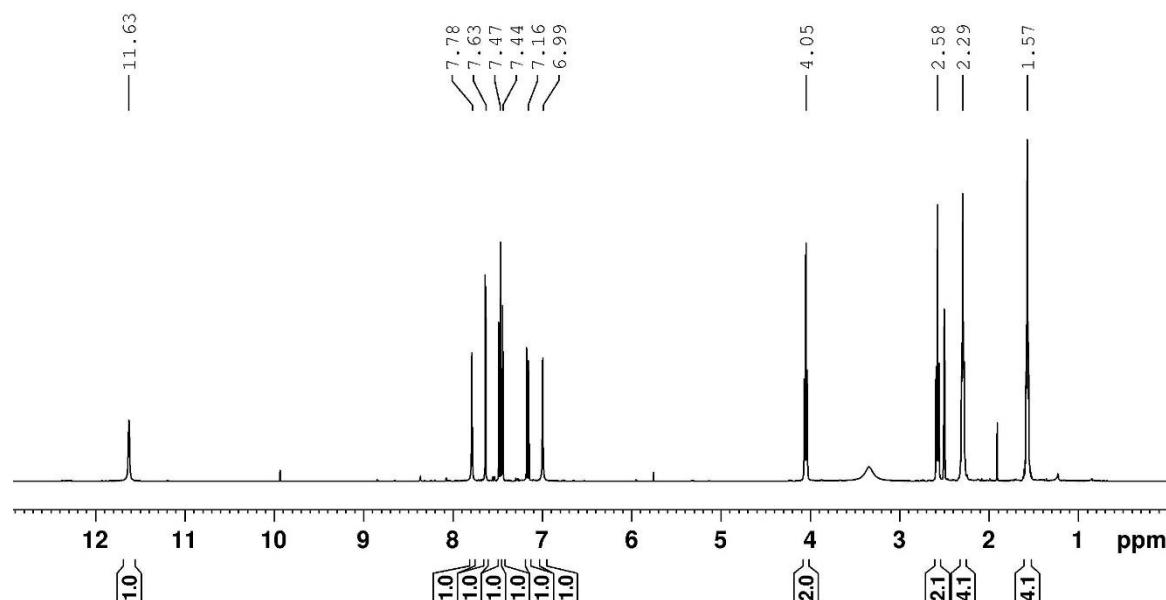
<sup>13</sup>C NMR (DMSO-*d*<sub>6</sub>, 100 MHz):



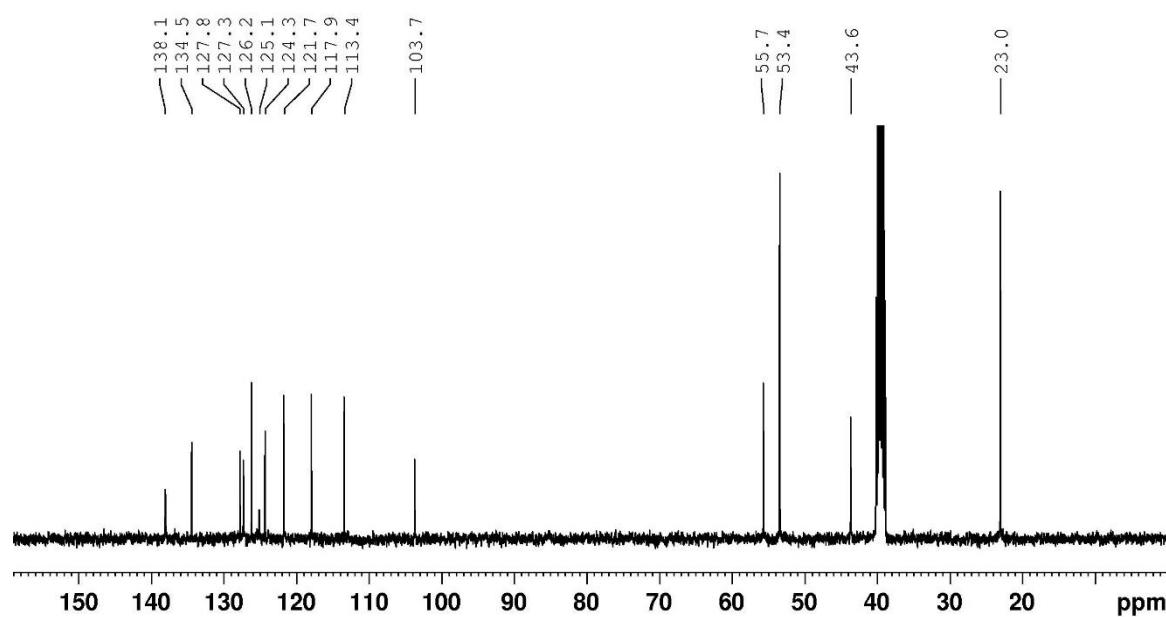
**Figure S98.** 5-Chloro-3-(1-(2-(pyrrolidin-1-yl)ethyl)-1*H*-imidazol-5-yl)-1*H*-indole (**98**)



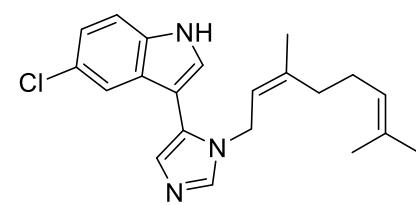
<sup>1</sup>H NMR (DMSO-*d*<sub>6</sub>, 400 MHz):



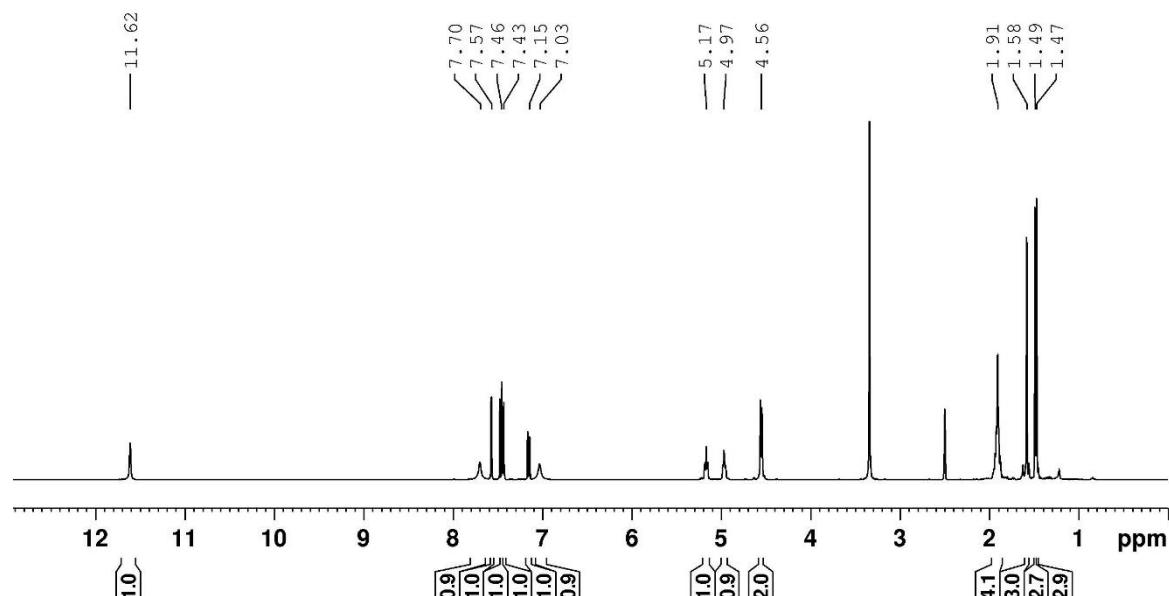
<sup>13</sup>C NMR (DMSO-*d*<sub>6</sub>, 100 MHz):



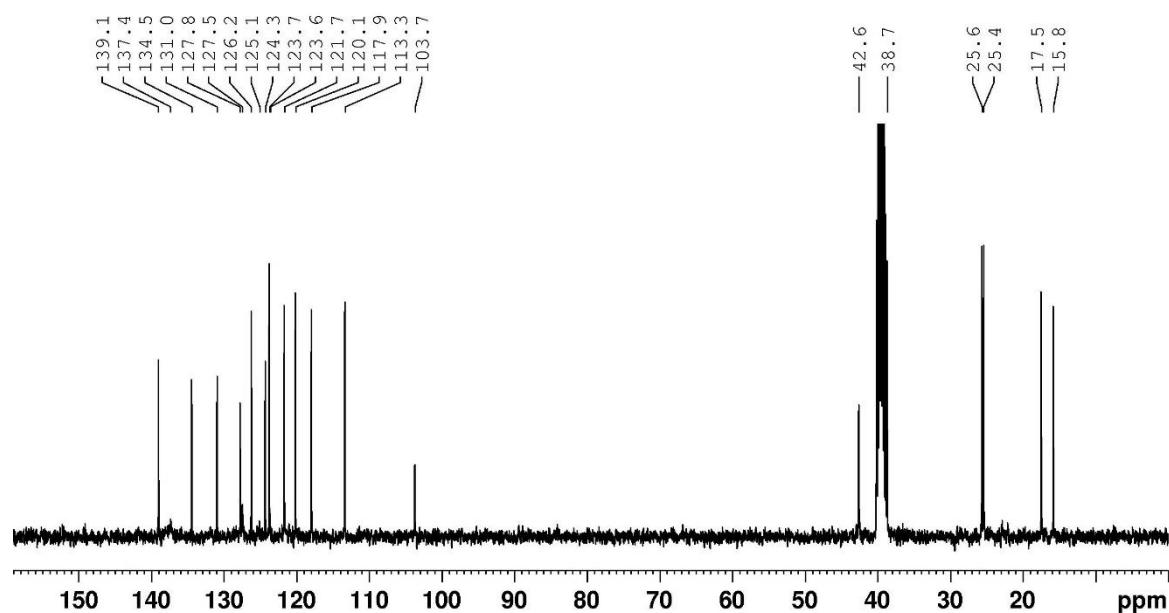
**Figure S99.** (E)-5-Chloro-3-(1-(3,7-dimethylocta-2,6-dien-1-yl)-1*H*-imidazol-5-yl)-1*H*-indole (**99**)



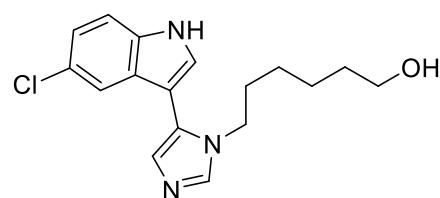
<sup>1</sup>H NMR (DMSO-*d*<sub>6</sub>, 400 MHz):



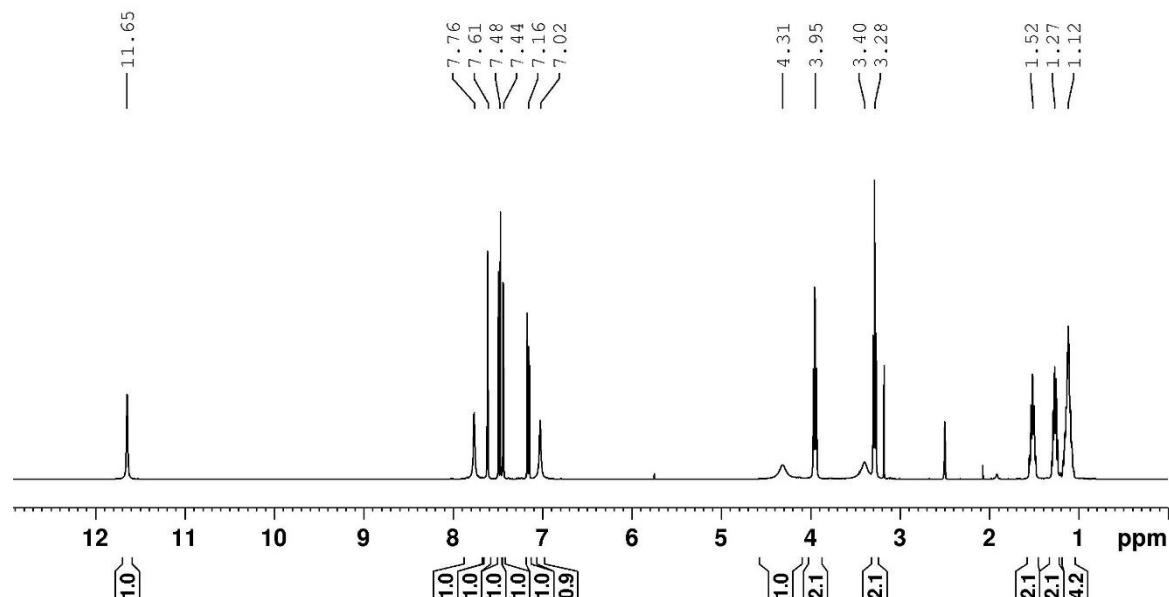
<sup>13</sup>C NMR (DMSO-*d*<sub>6</sub>, 100 MHz):



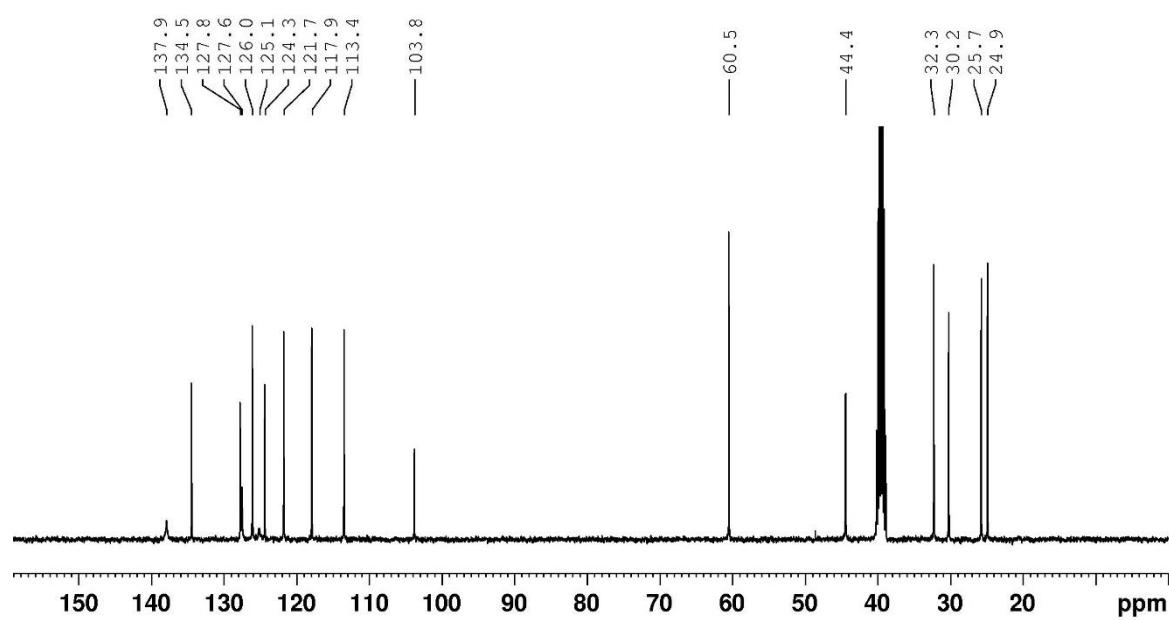
**Figure S100.** 6-(5-Chloro-1*H*-indol-3-yl)-1*H*-imidazol-1-yl)hexan-1-ol (**100**)



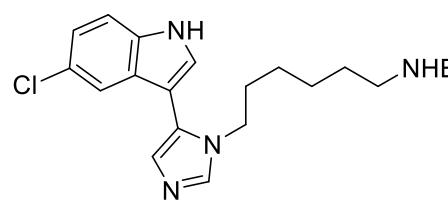
<sup>1</sup>H NMR (DMSO-*d*<sub>6</sub>, 400 MHz):



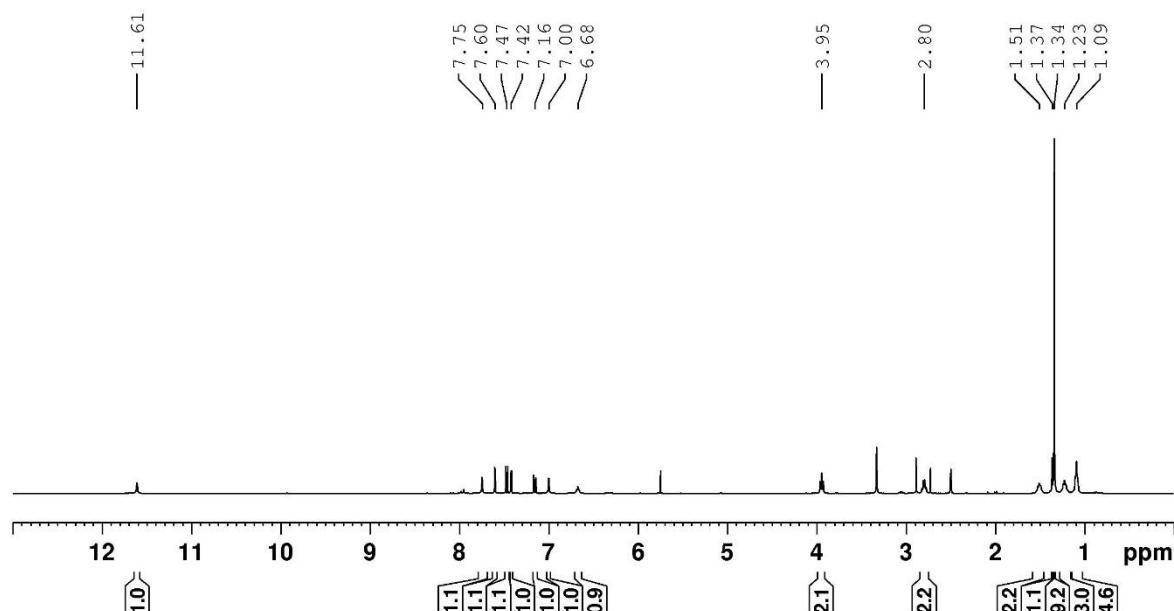
<sup>13</sup>C NMR (DMSO-*d*<sub>6</sub>, 100 MHz):



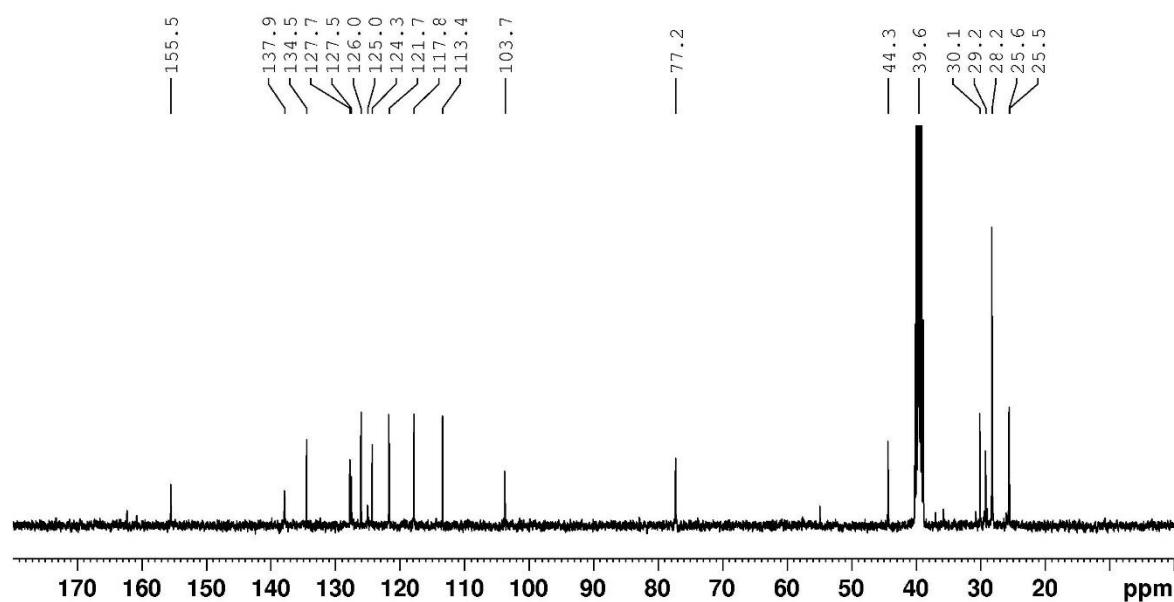
*Figure S101.* *tert*-Butyl (6-(5-(5-chloro-1*H*-indol-3-yl)-1*H*-imidazol-1-yl)hexyl)carbamate (**101**)



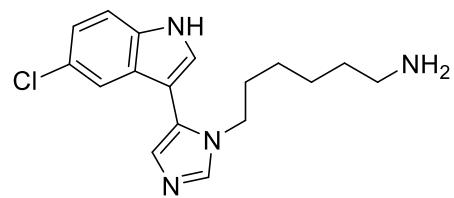
<sup>1</sup>H NMR (DMSO-*d*<sub>6</sub>, 400 MHz):



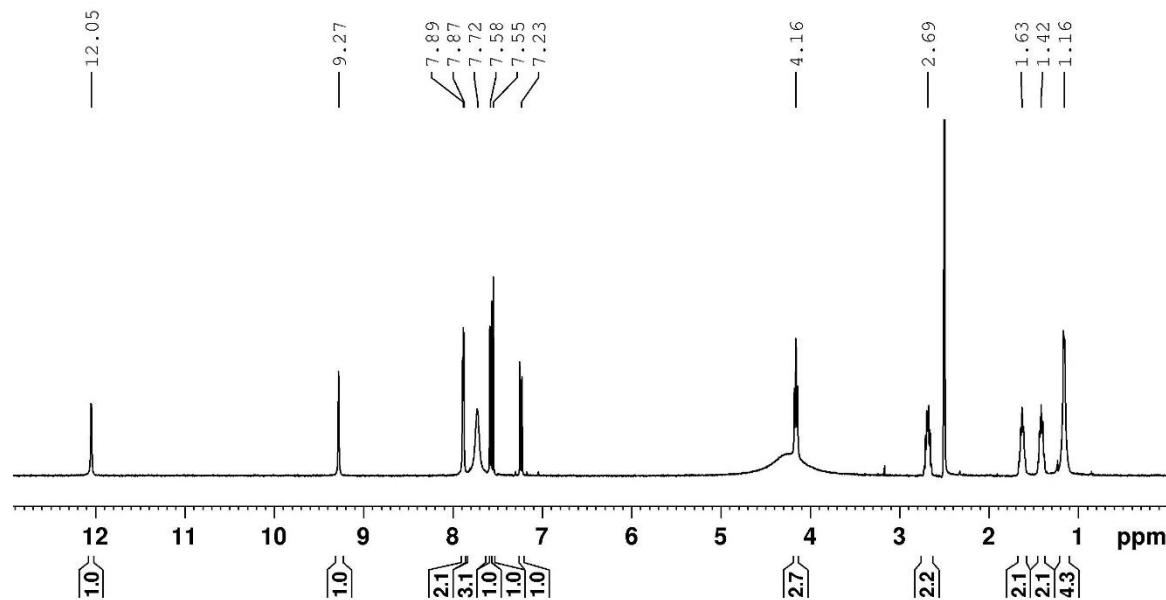
<sup>13</sup>C NMR (DMSO-*d*<sub>6</sub>, 100 MHz):



**Figure S102.** 6-(5-Chloro-1*H*-indol-3-yl)-1*H*-imidazol-1-yl)hexan-1-aminium 2,2,2-trifluoroacetate (**102**)



<sup>1</sup>H NMR (DMSO-*d*<sub>6</sub>, 400 MHz):



<sup>13</sup>C NMR (DMSO-*d*<sub>6</sub>, 100 MHz):

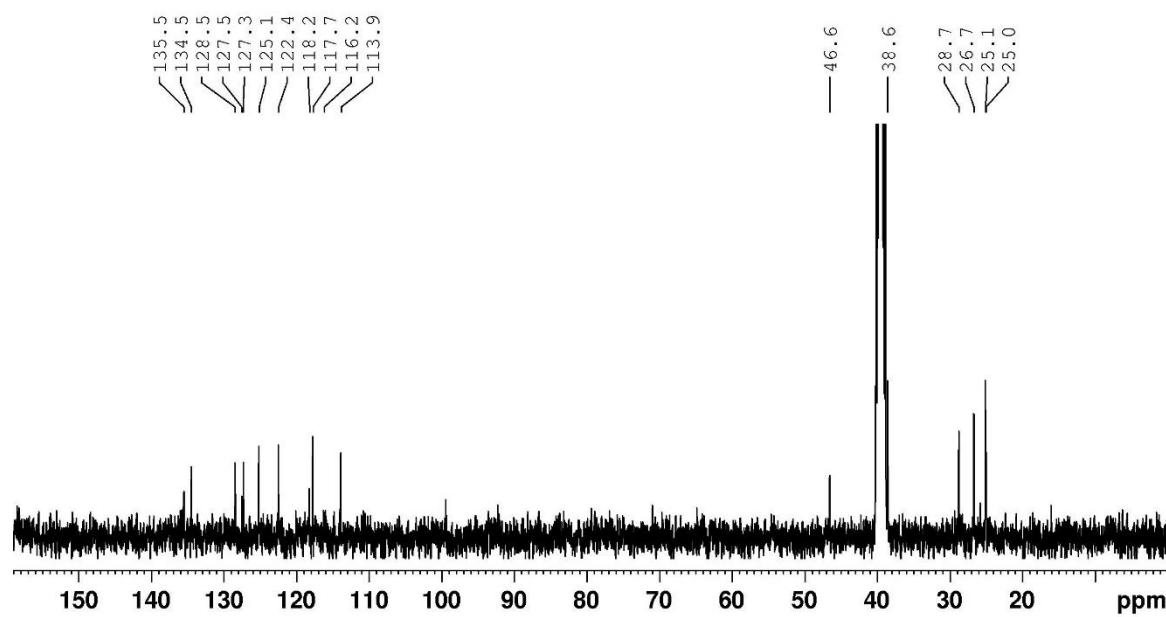
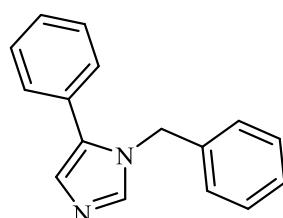
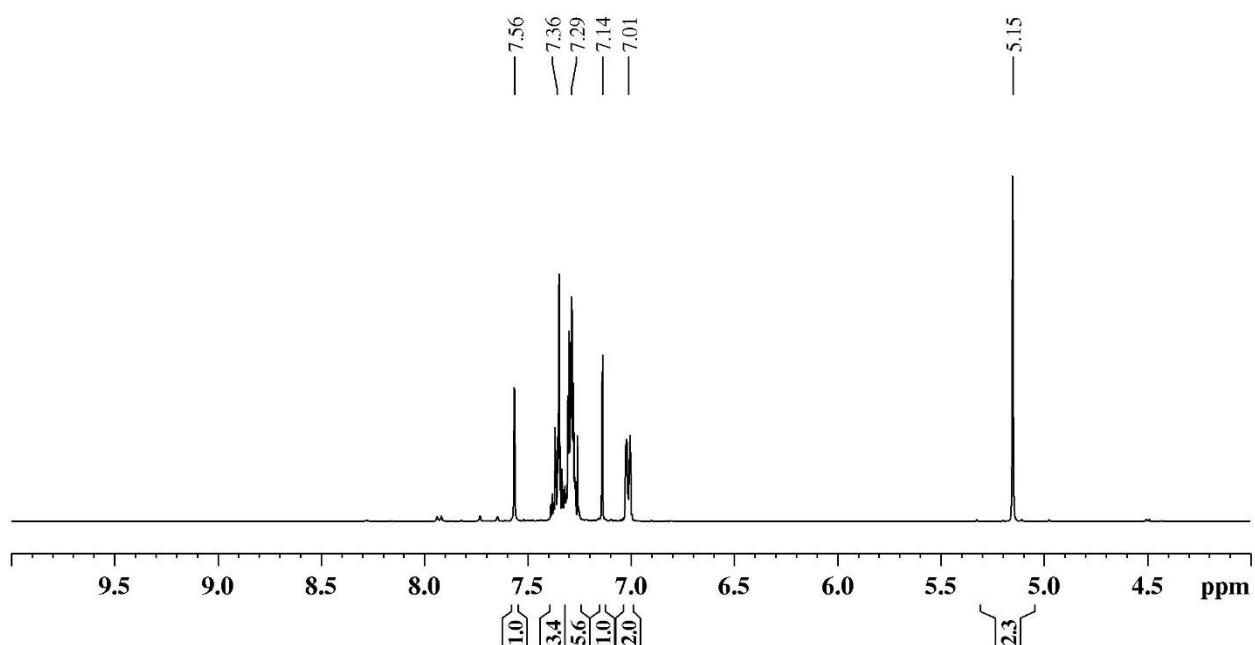


Figure S103. 1-Benzyl-5-phenyl-1*H*-imidazole (**103**)



<sup>1</sup>H NMR (CDCl<sub>3</sub>, 400 MHz):



<sup>13</sup>C NMR (CDCl<sub>3</sub>, 100 MHz):

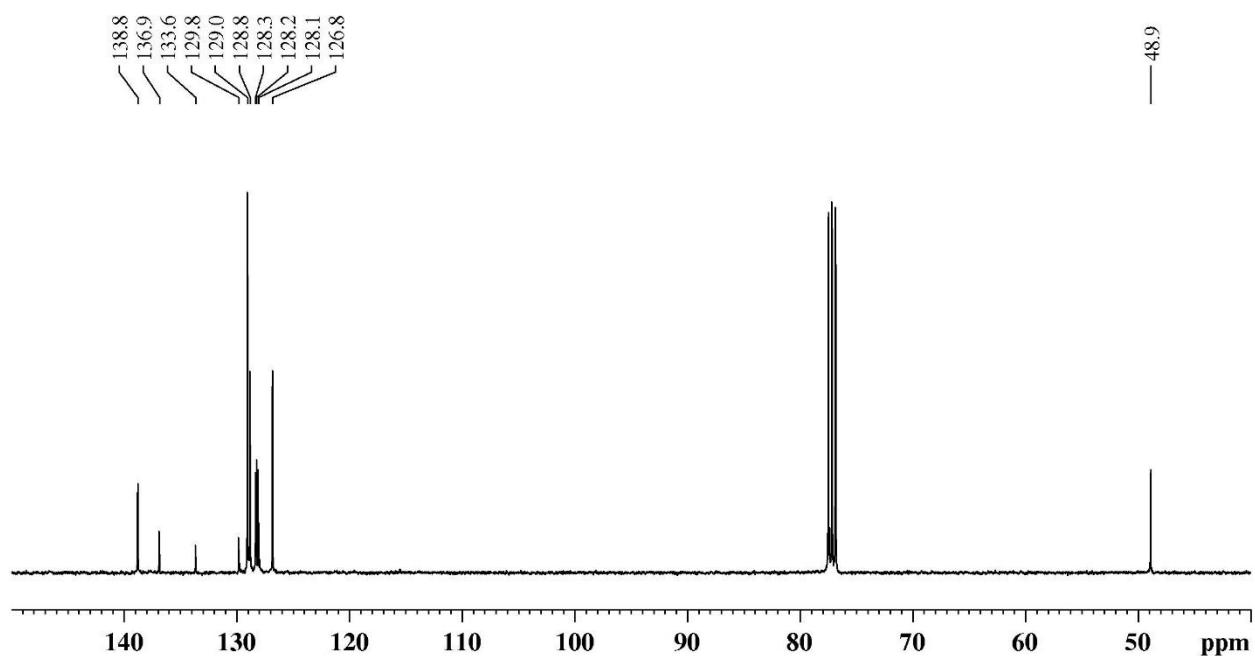


Figure S104. 1-Benzyl-5-(4-methoxyphenyl)-1*H*-imidazole (**104**)

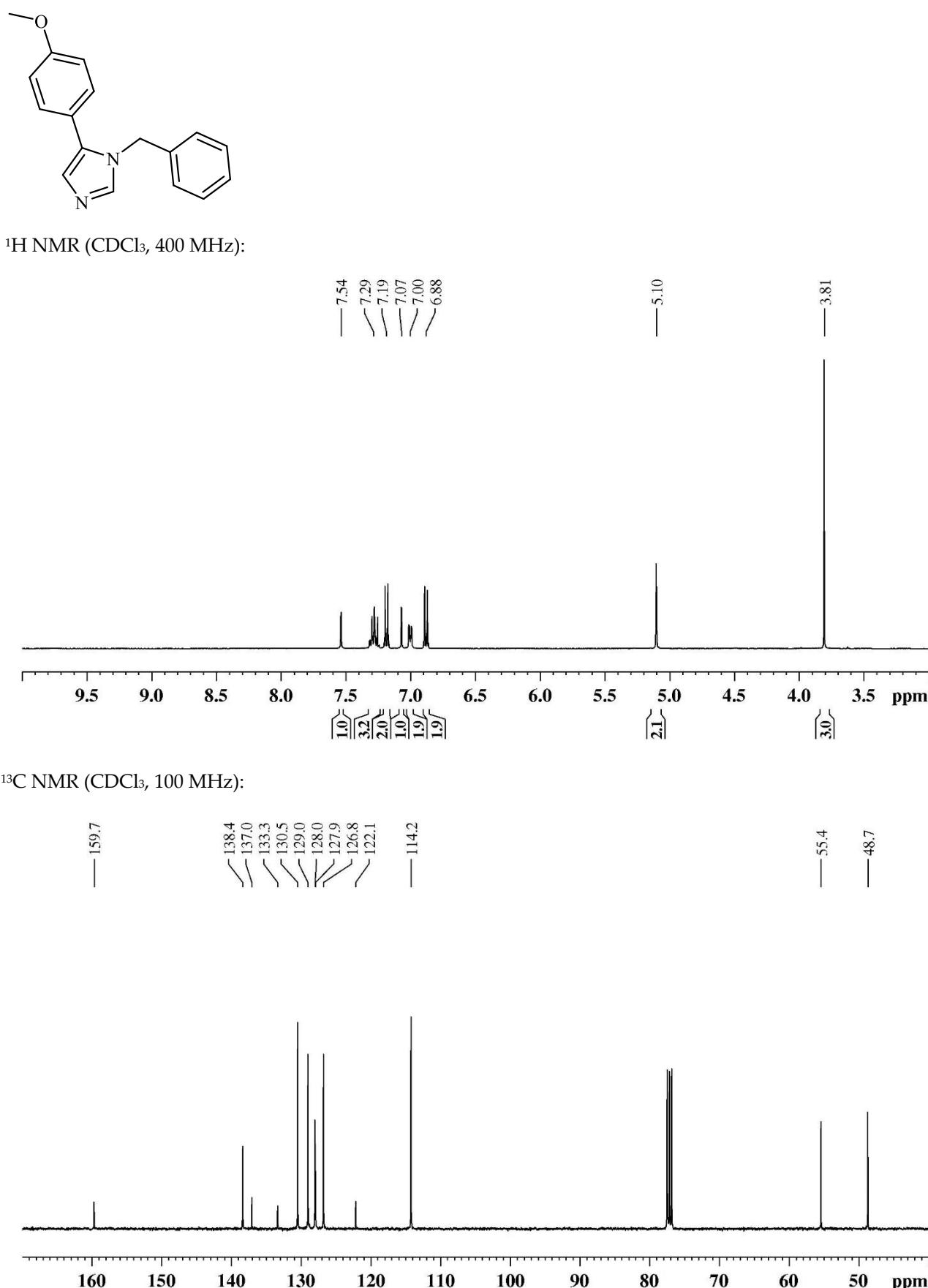
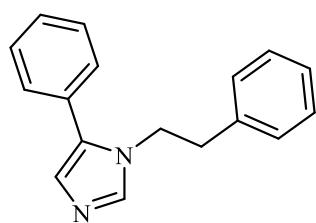
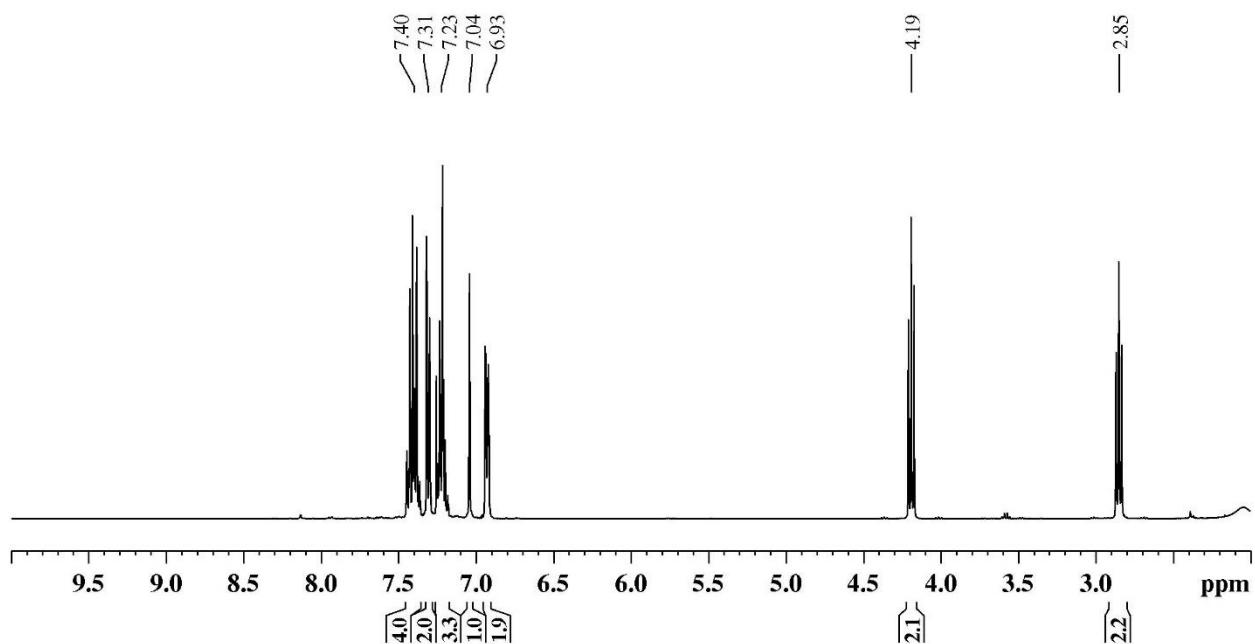


Figure S105. 1-Phenethyl-5-phenyl-1*H*-imidazole (**105**)



<sup>1</sup>H NMR (CDCl<sub>3</sub>, 400 MHz):



<sup>13</sup>C NMR (CDCl<sub>3</sub>, 100 MHz):

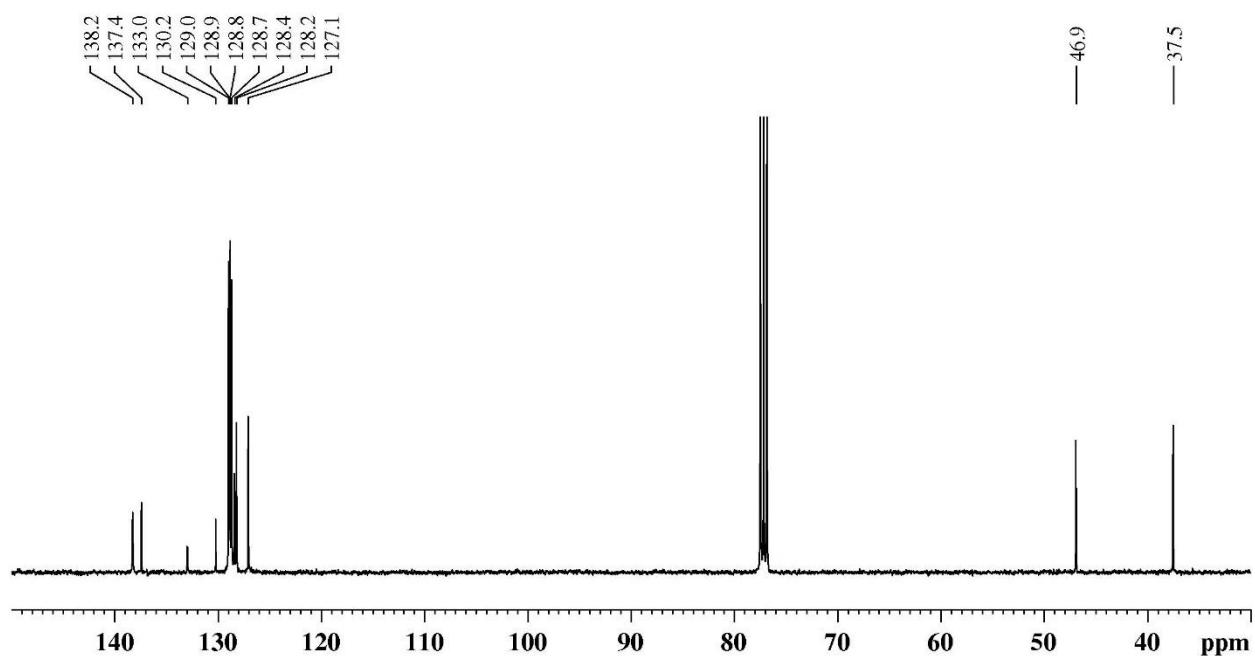
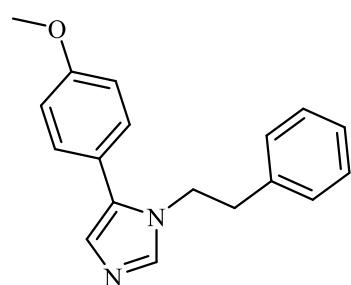
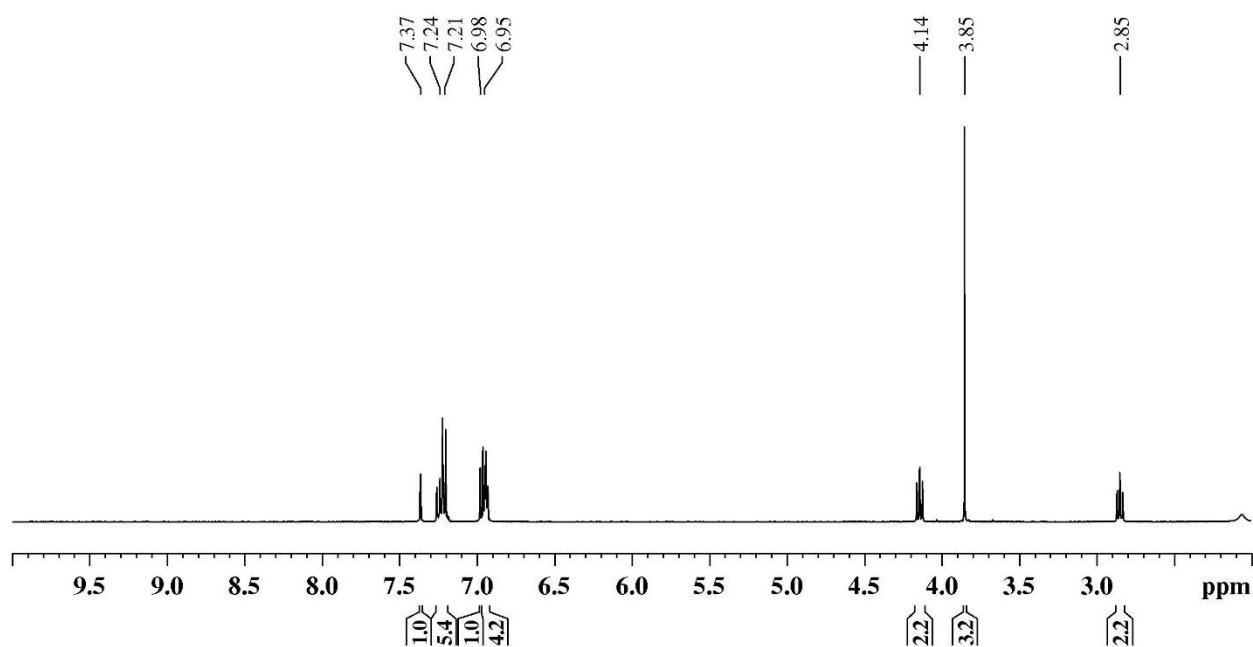


Figure S106. 5-(4-Methoxyphenyl)-1-phenethyl-1*H*-imidazole (**106**)



<sup>1</sup>H NMR (CDCl<sub>3</sub>, 400 MHz):



<sup>13</sup>C NMR (CDCl<sub>3</sub>, 100 MHz):

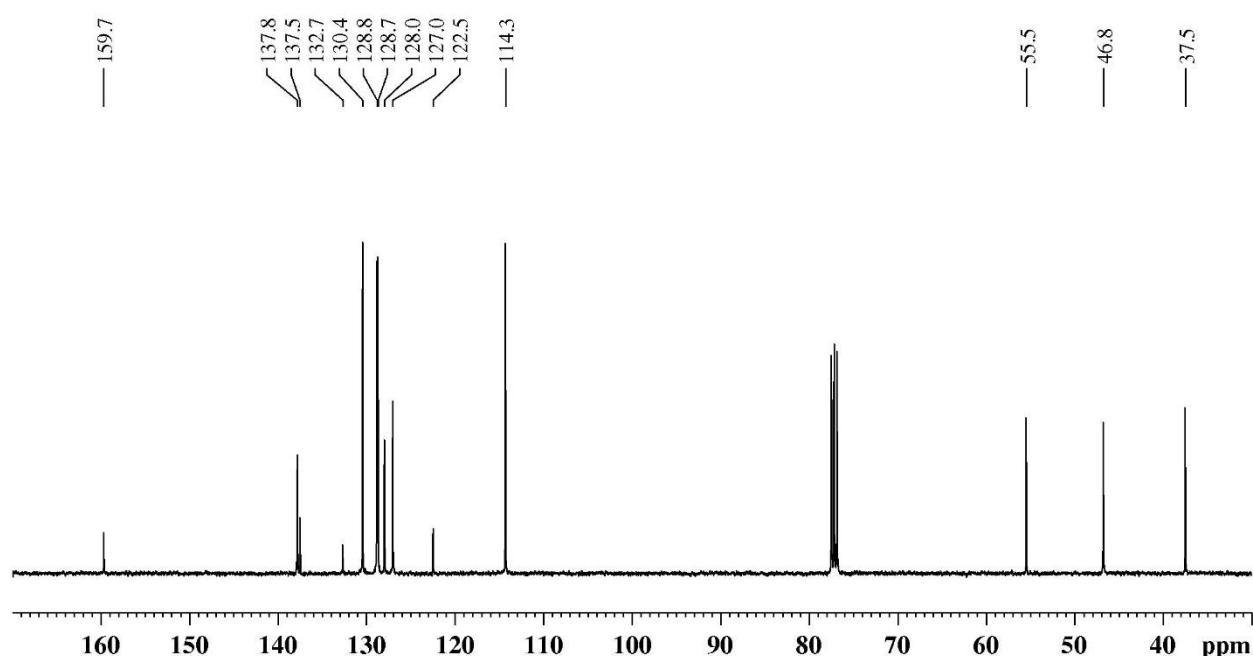
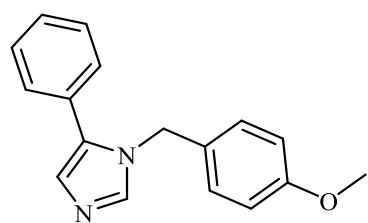
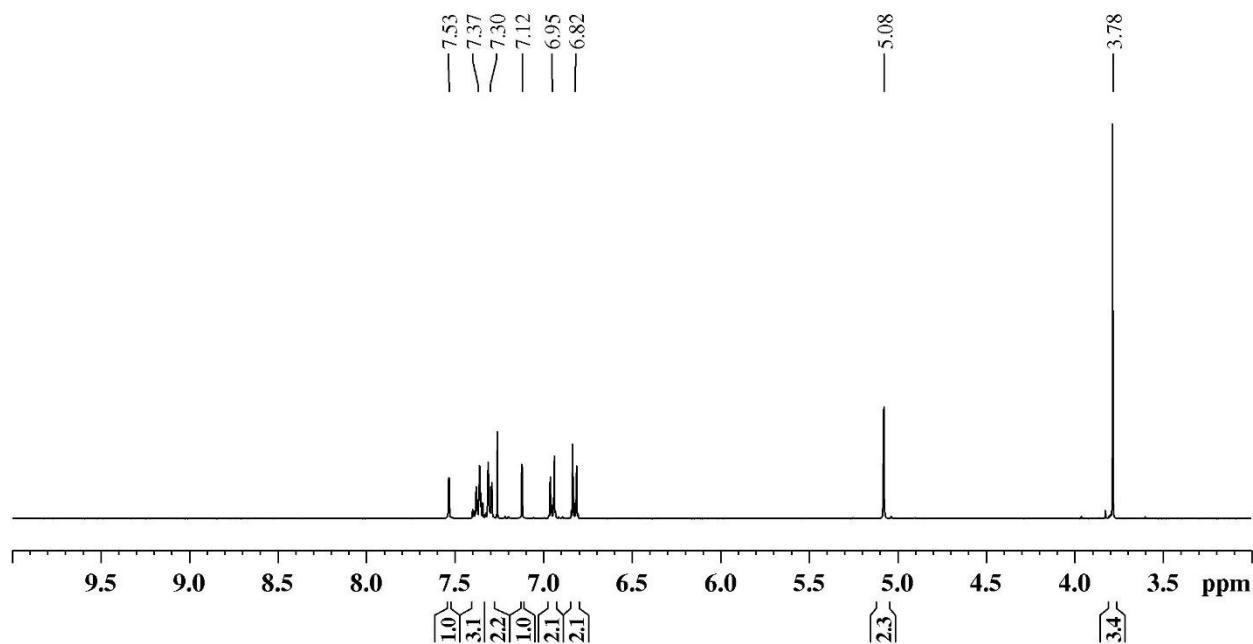


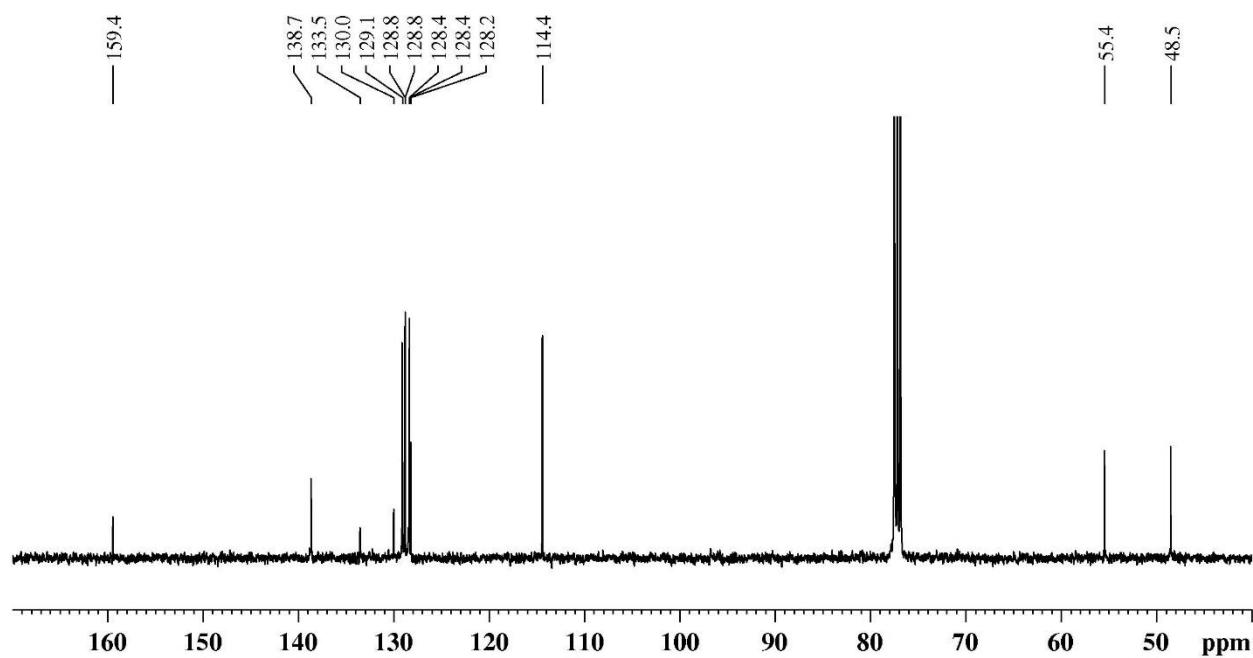
Figure S107. 1-(4-Methoxybenzyl)-5-phenyl-1*H*-imidazole (**107**)



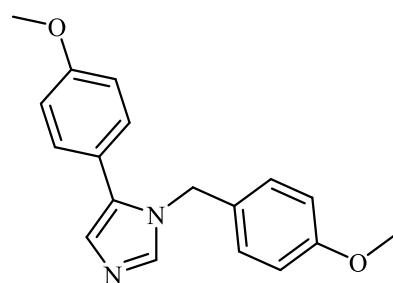
<sup>1</sup>H NMR (CDCl<sub>3</sub>, 400 MHz):



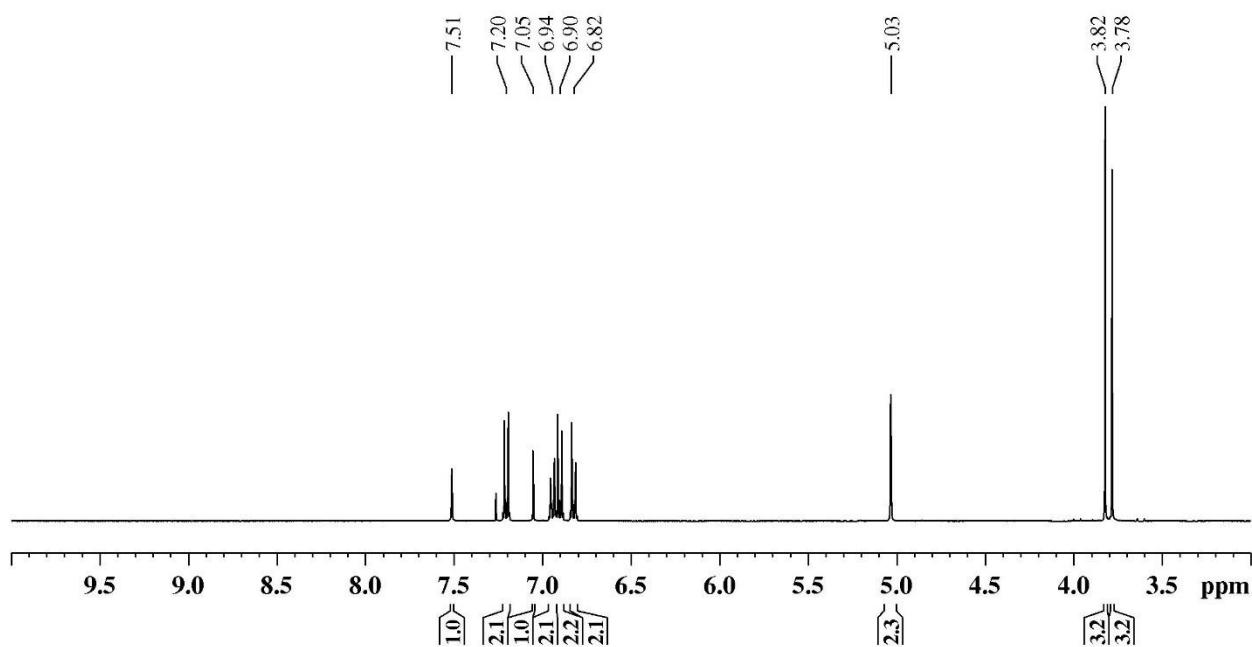
<sup>13</sup>C NMR (CDCl<sub>3</sub>, 100 MHz):



*Figure S108.* 1-(4-Methoxybenzyl)-5-(4-methoxyphenyl)-1*H*-imidazole (**108**)



$^1\text{H}$  NMR ( $\text{CDCl}_3$ , 400 MHz):



$^{13}\text{C}$  NMR ( $\text{CDCl}_3$ , 100 MHz):

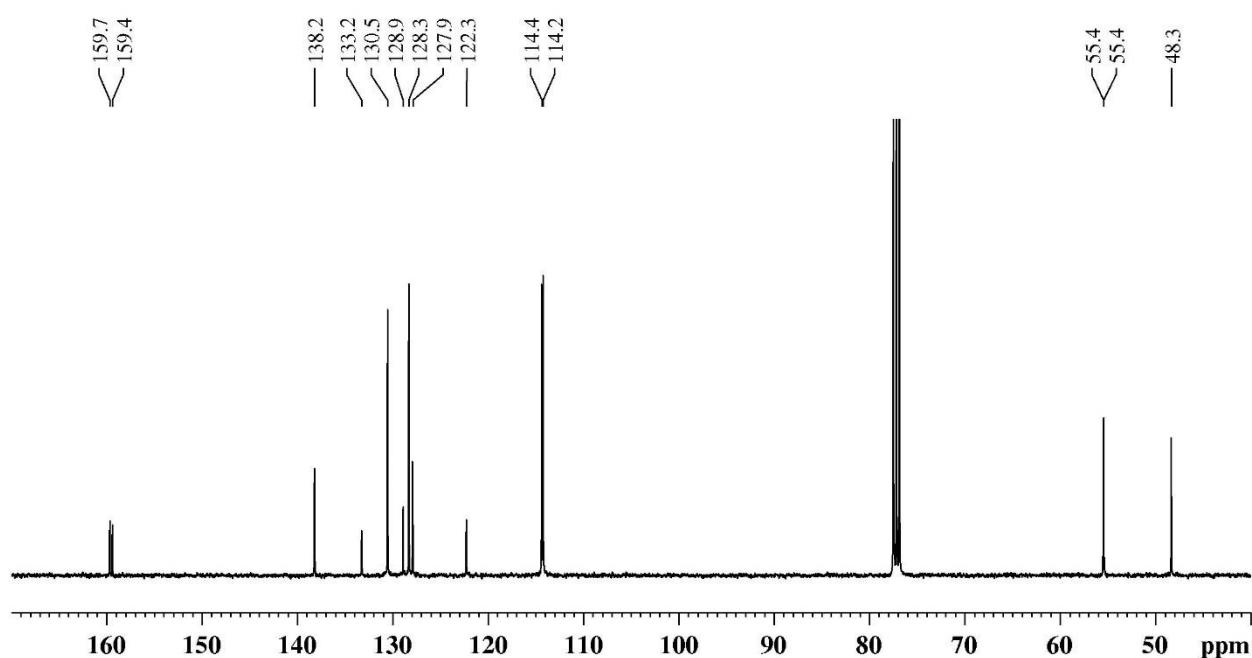
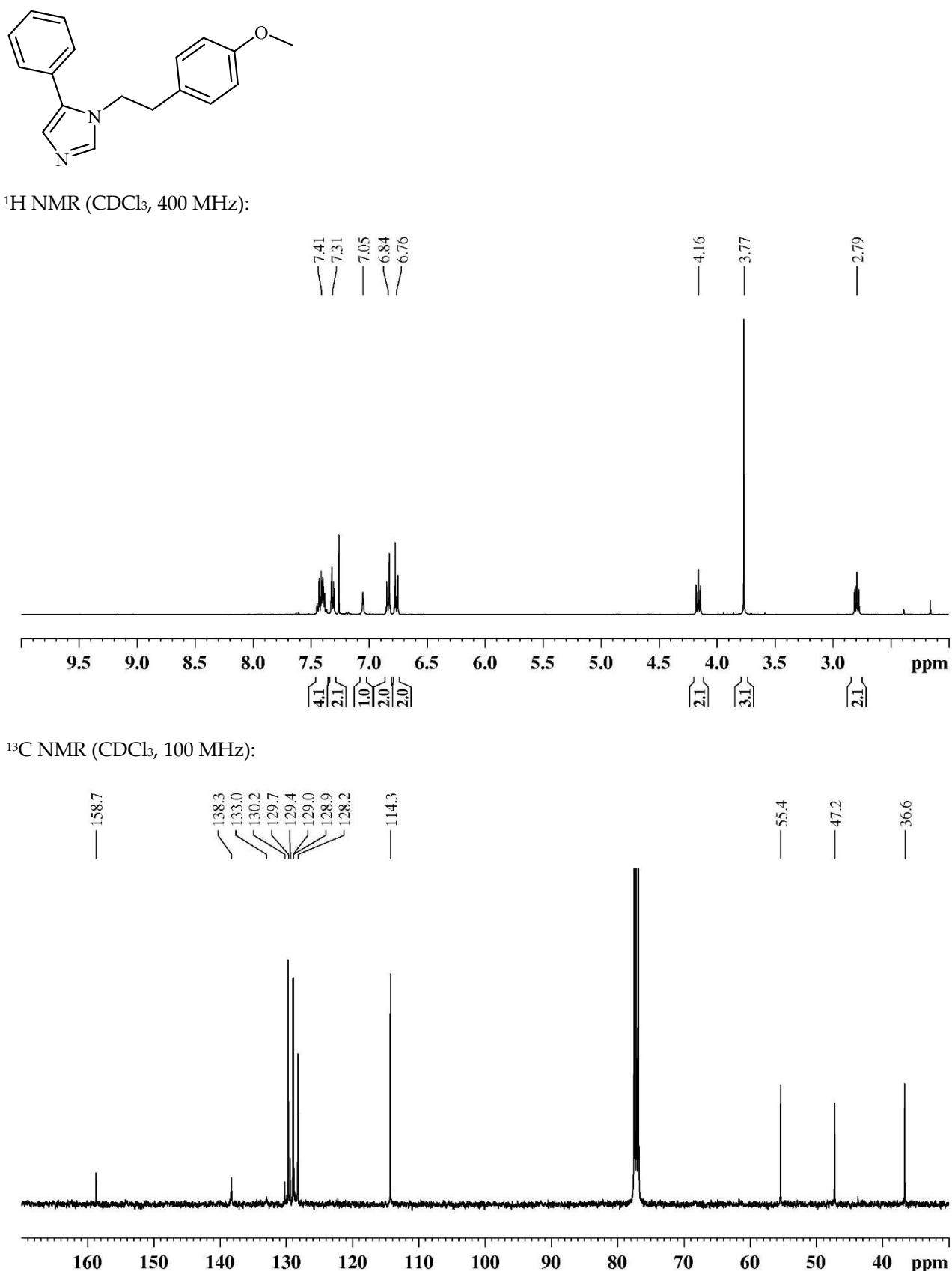
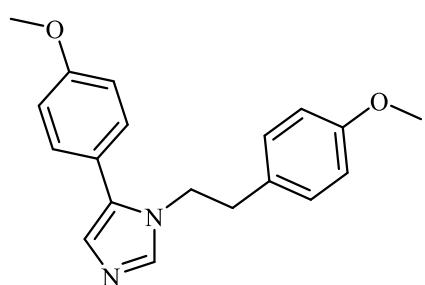


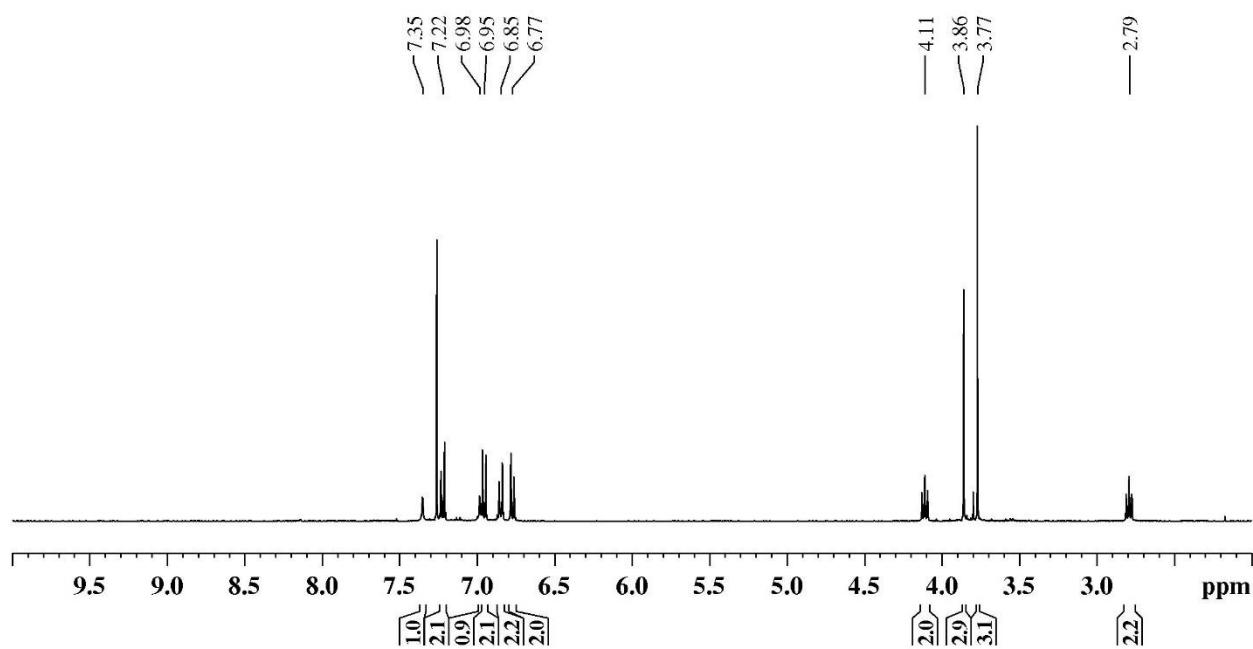
Figure S109. 1-(4-Methoxyphenethyl)-5-phenyl-1*H*-imidazole (**109**)



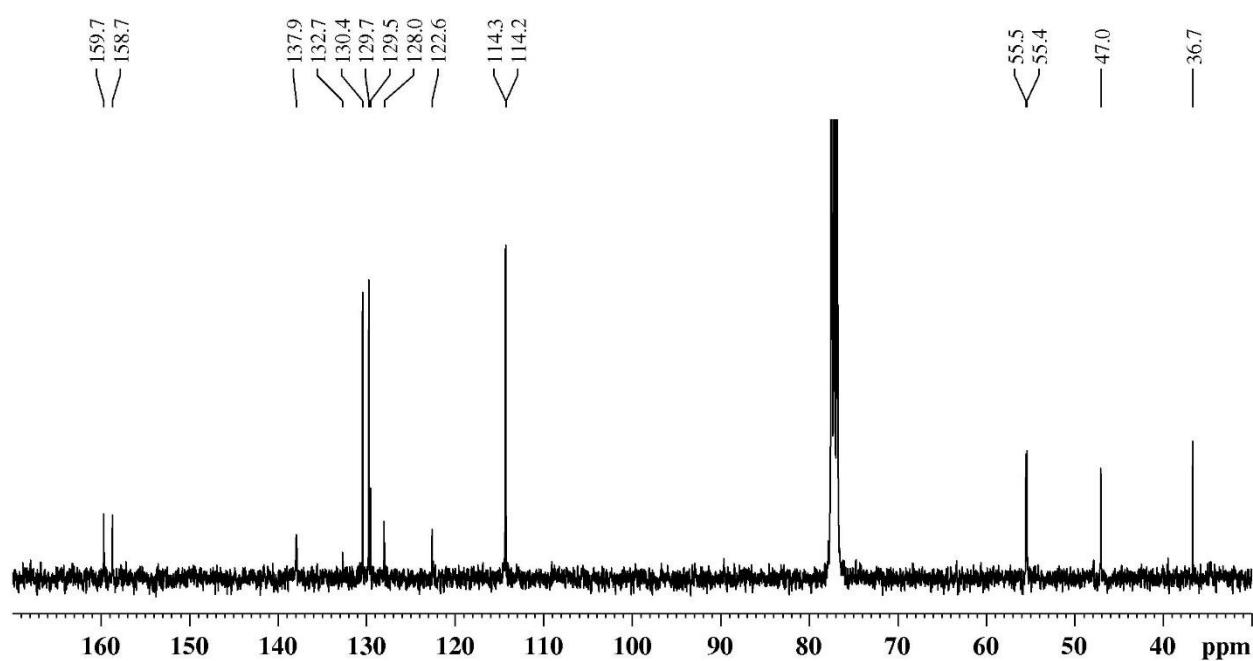
*Figure S110.* 1-(4-Methoxyphenethyl)-5-(4-methoxyphenyl)-1*H*-imidazole (**110**)



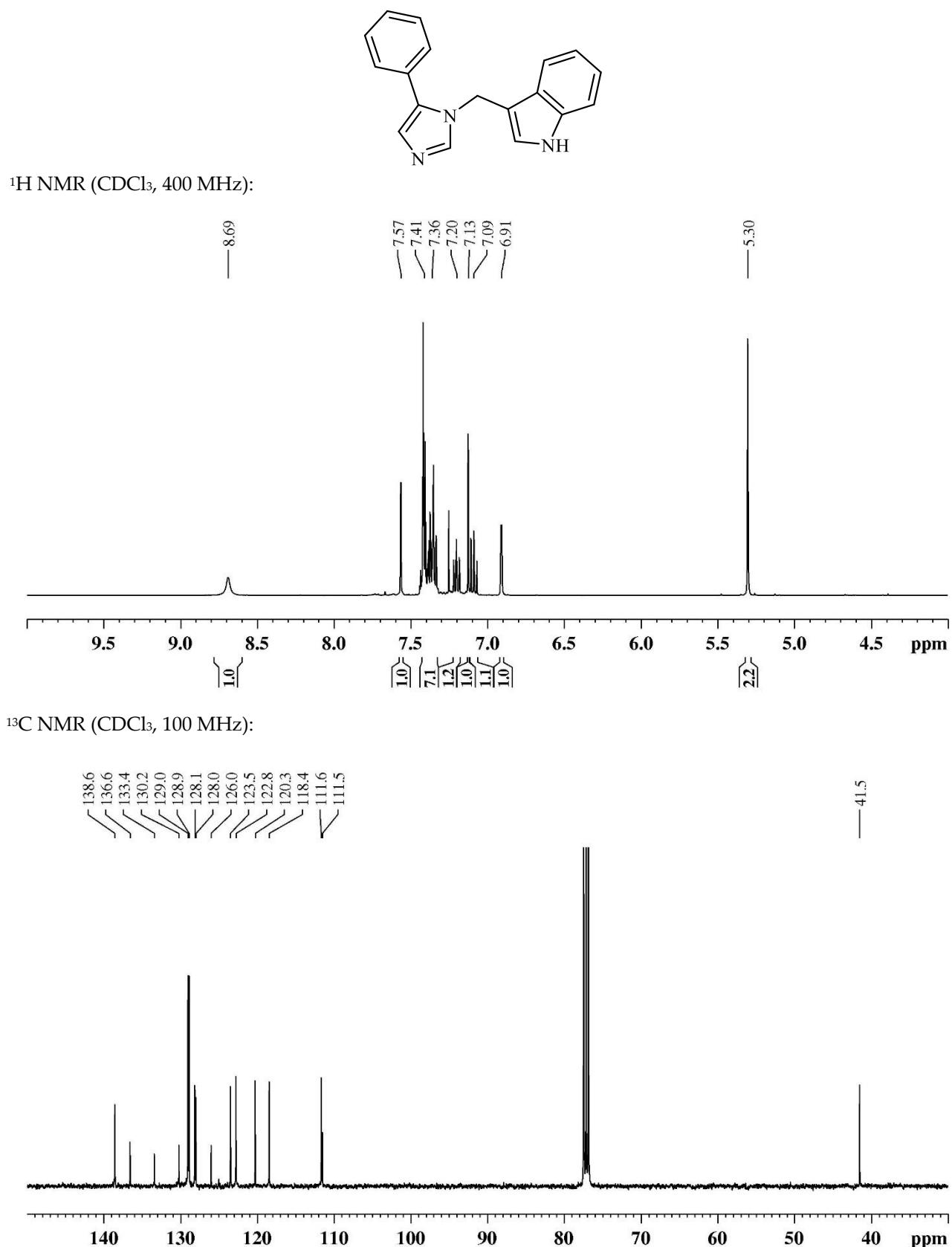
$^1\text{H}$  NMR ( $\text{CDCl}_3$ , 400 MHz):



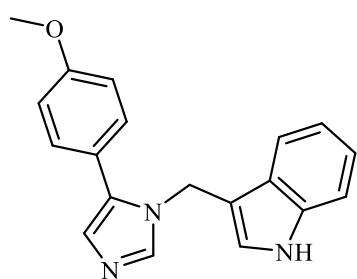
$^{13}\text{C}$  NMR ( $\text{CDCl}_3$ , 100 MHz):



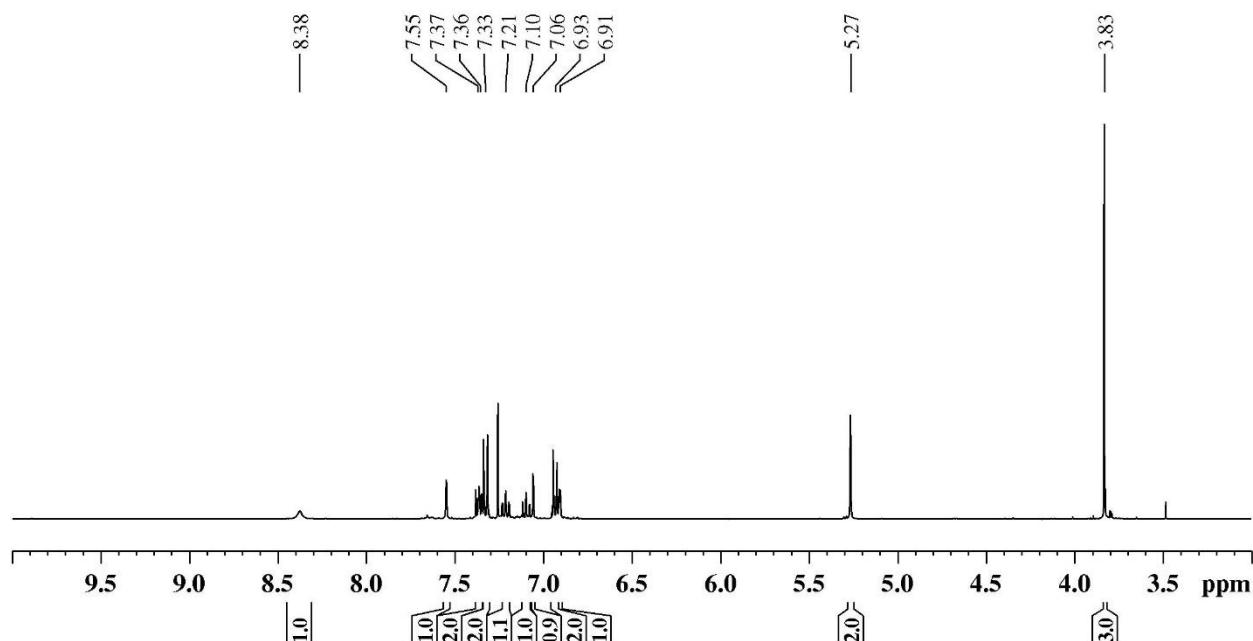
*Figure S111.* 3-((5-Phenyl-1*H*-imidazol-1-yl)methyl)-1*H*-indole (**111**)



**Figure S112.** 3-((5-(4-Methoxyphenyl)-1*H*-imidazol-1-yl)methyl)-1*H*-indole (**112**)



<sup>1</sup>H NMR (CDCl<sub>3</sub>, 400 MHz):



<sup>13</sup>C NMR (CDCl<sub>3</sub>, 100 MHz):

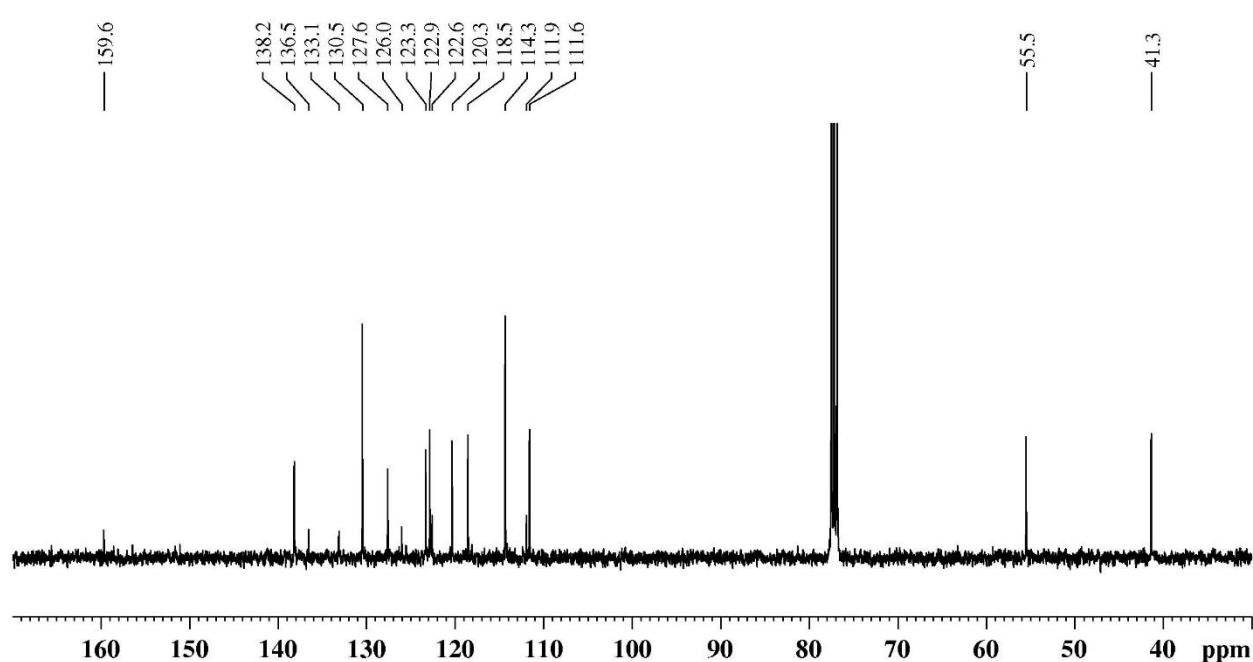
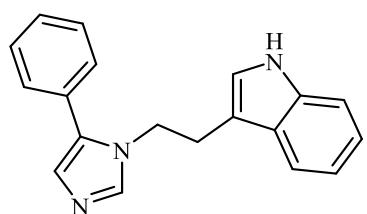
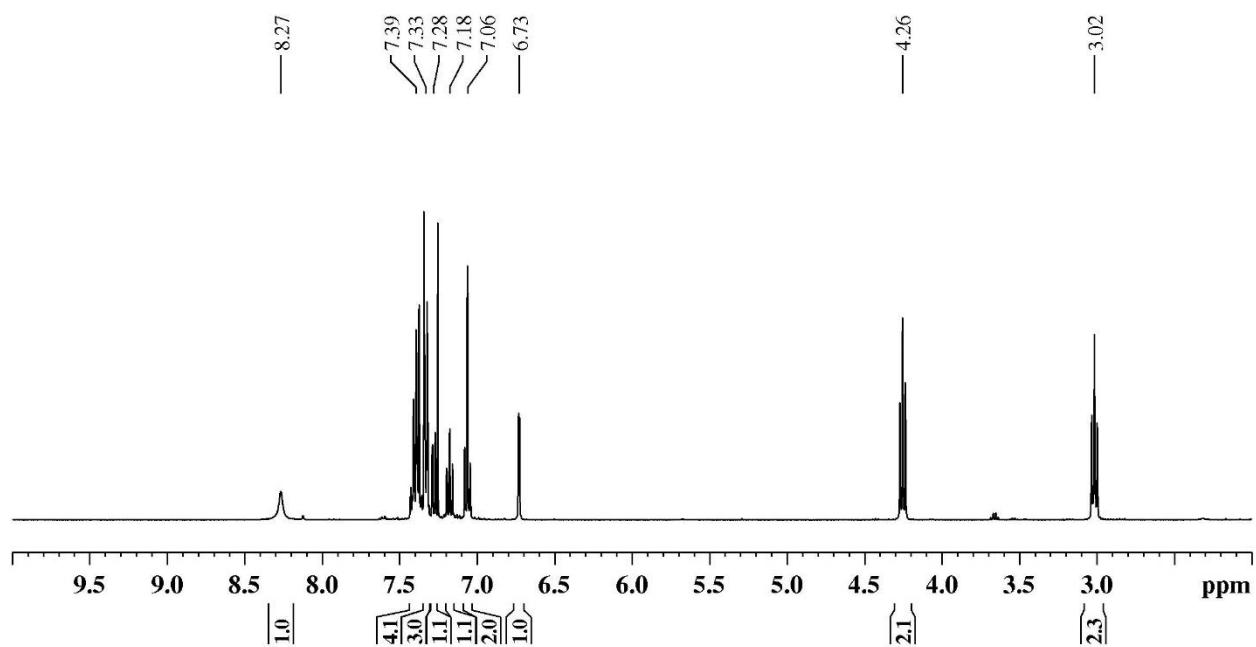


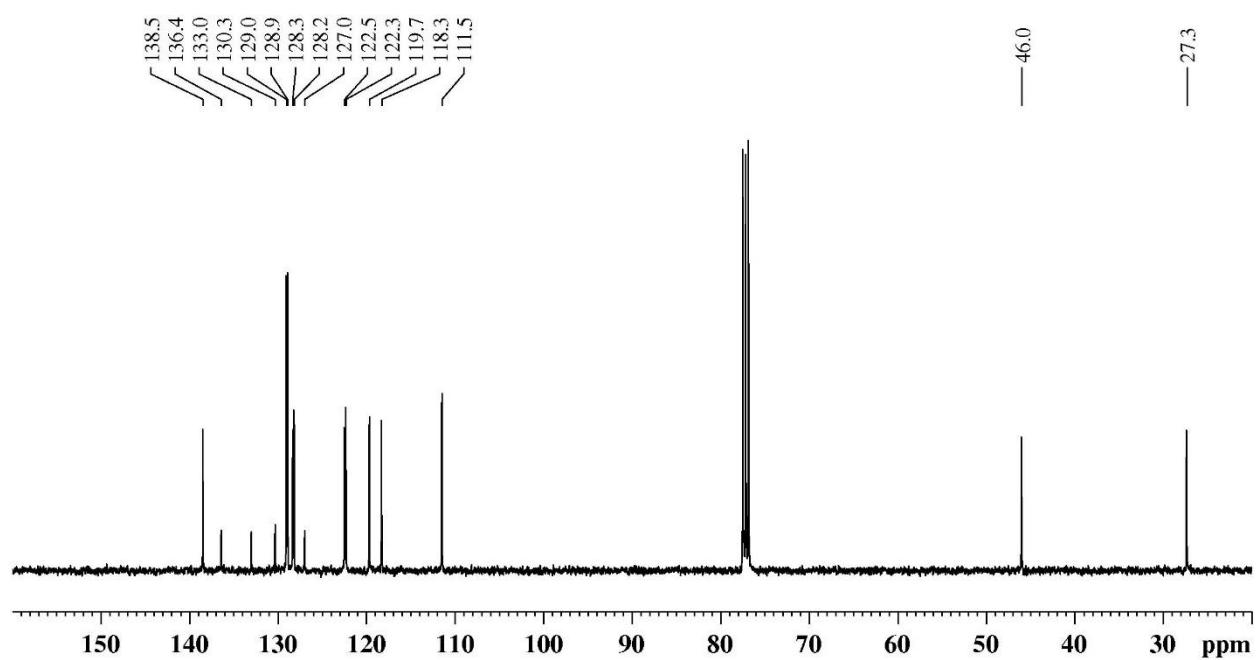
Figure S113. 3-(2-(5-Phenyl-1H-imidazol-1-yl)ethyl)-1H-indole (**113**)



<sup>1</sup>H NMR (CDCl<sub>3</sub>, 400 MHz):



<sup>13</sup>C NMR (CDCl<sub>3</sub>, 100 MHz):



**Figure S114.** 3-(2-(5-(4-Methoxyphenyl)-1*H*-imidazol-1-yl)ethyl)-1*H*-indole (**114**)

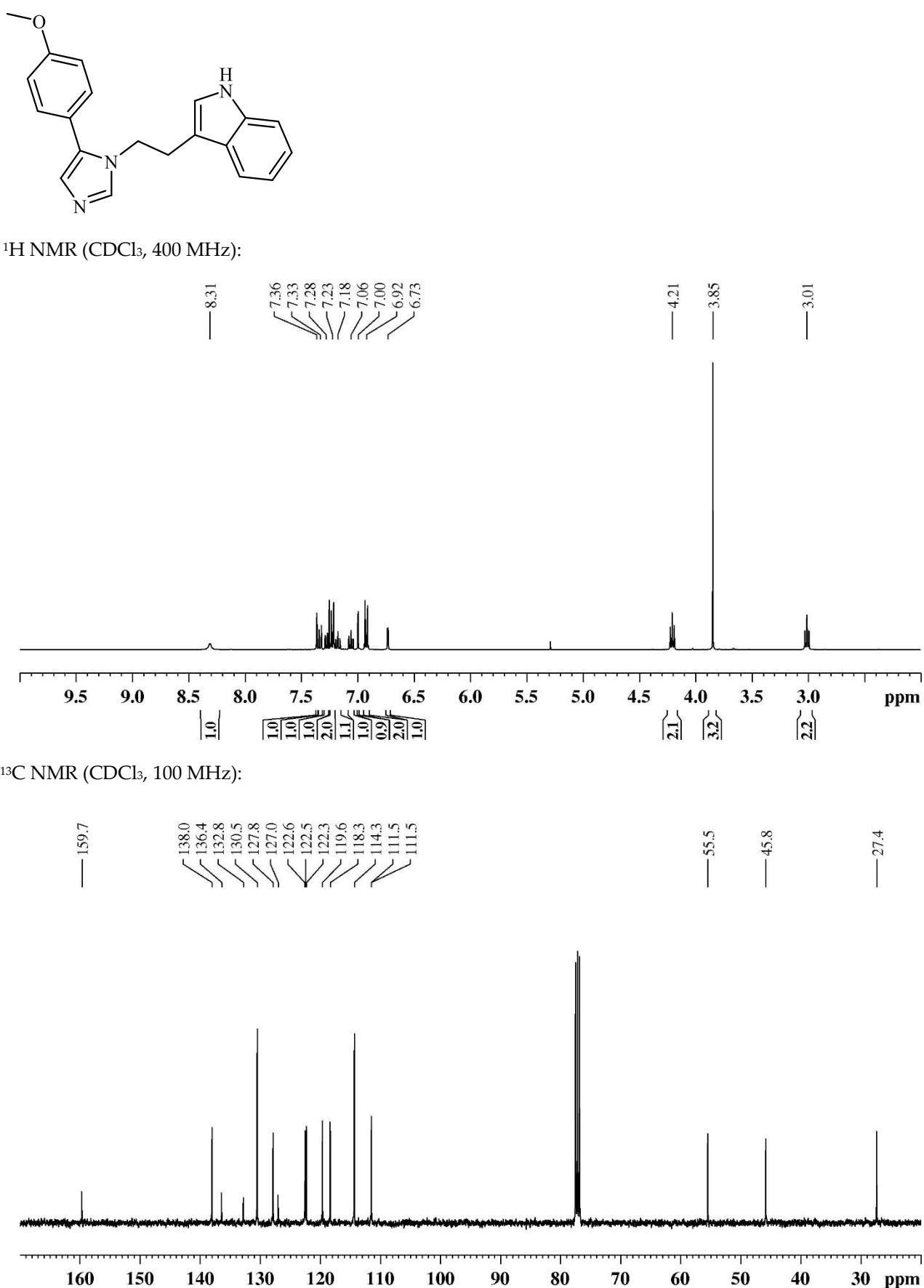
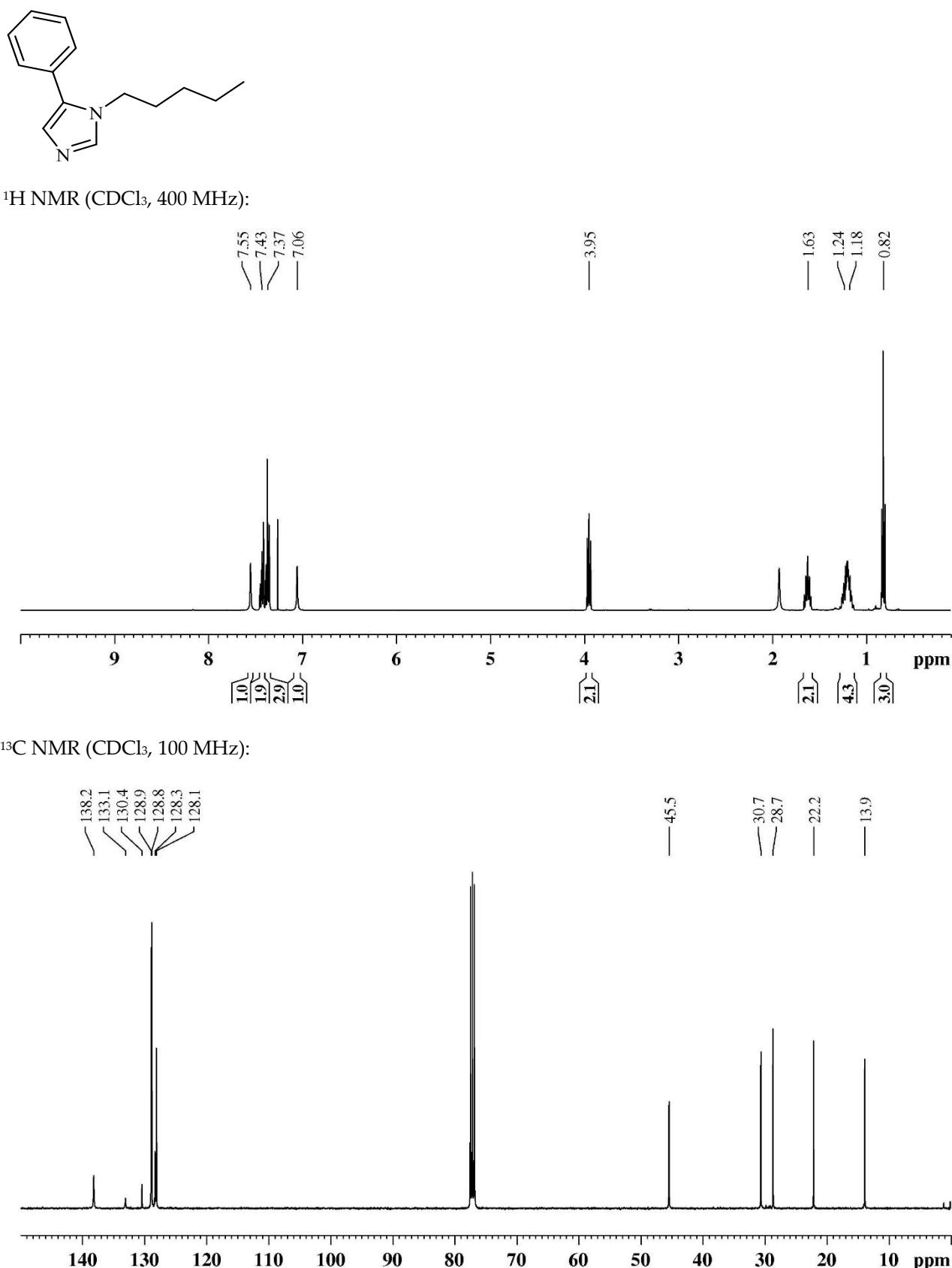
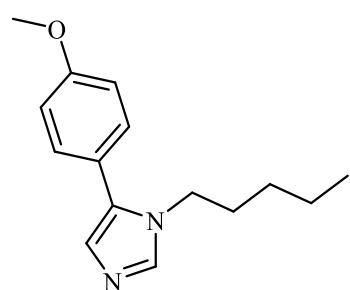


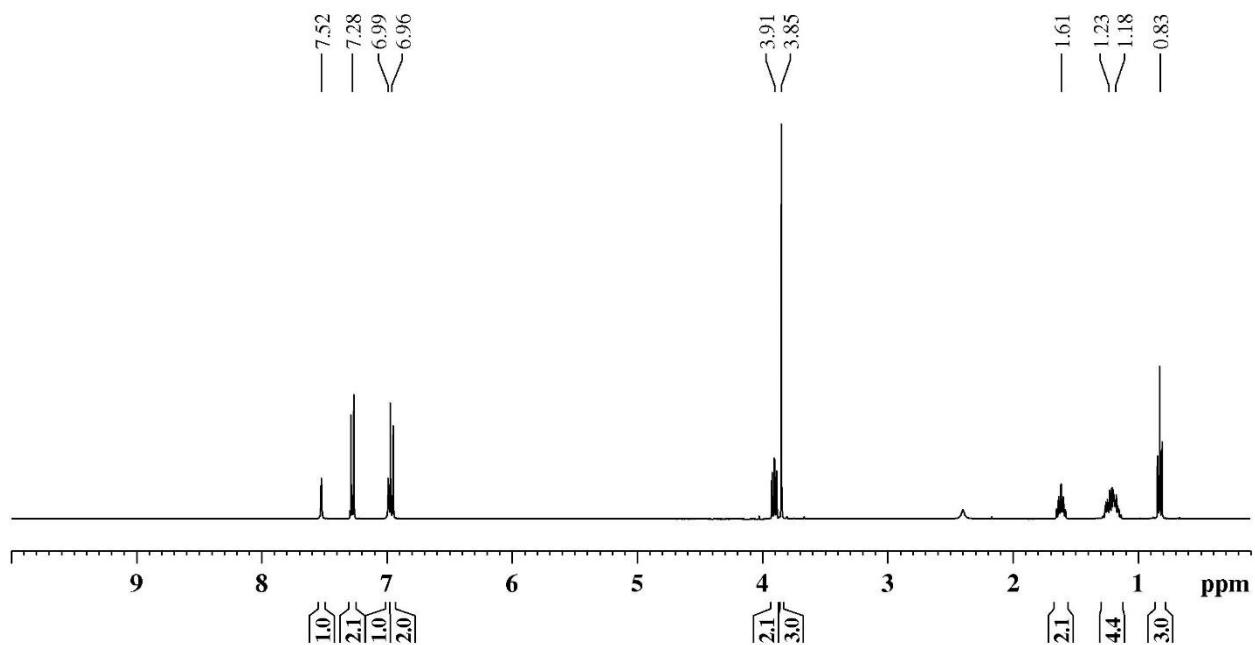
Figure S115. 1-Pentyl-5-phenyl-1*H*-imidazole (**115**)



*Figure S116.* 5-(4-Methoxyphenyl)-1-pentyl-1*H*-imidazole (**116**)



$^1\text{H}$  NMR ( $\text{CDCl}_3$ , 400 MHz):



$^{13}\text{C}$  NMR ( $\text{CDCl}_3$ , 100 MHz):

