

Supporting Information

New Insights into the Opioid Analgesic Profile of *cis*-(-)-*N*-Normetazocine-derived Ligands

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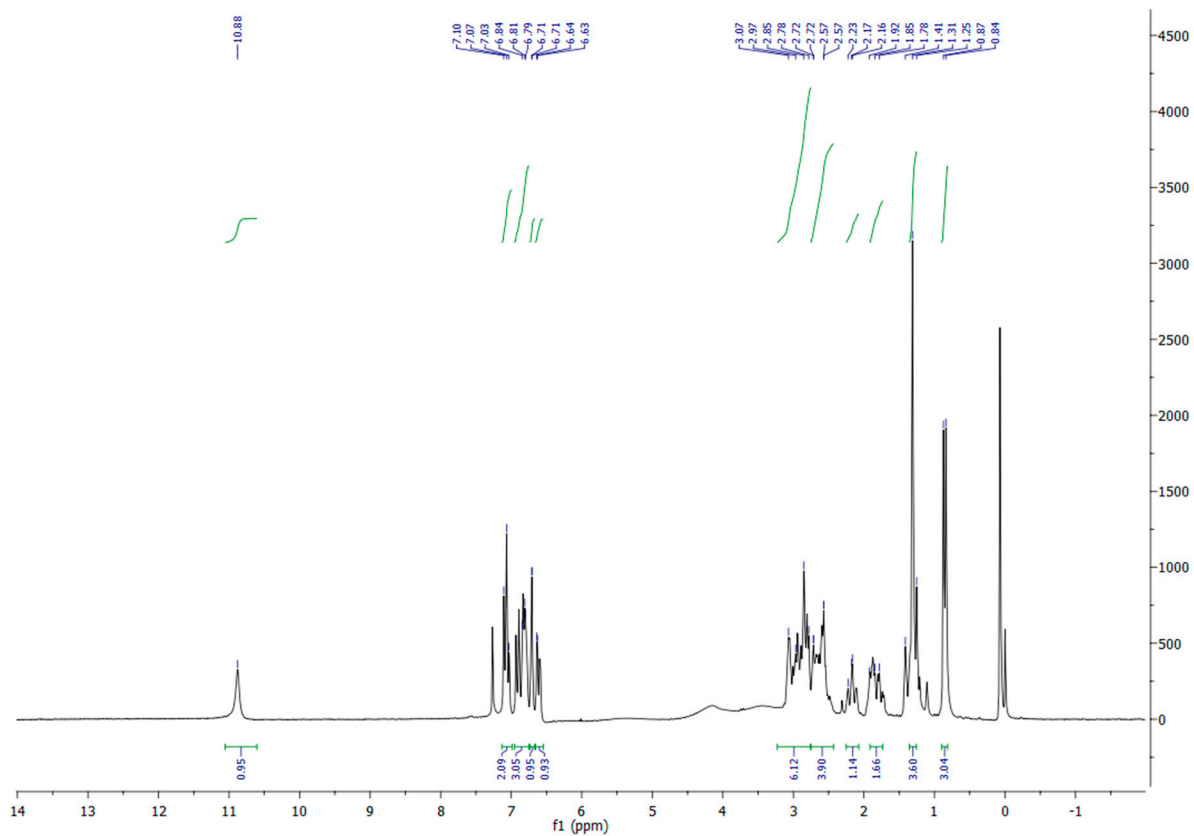


Figure S1. ¹H-NMR (200 MHz, CDCl₃) spectrum of compound **3**.

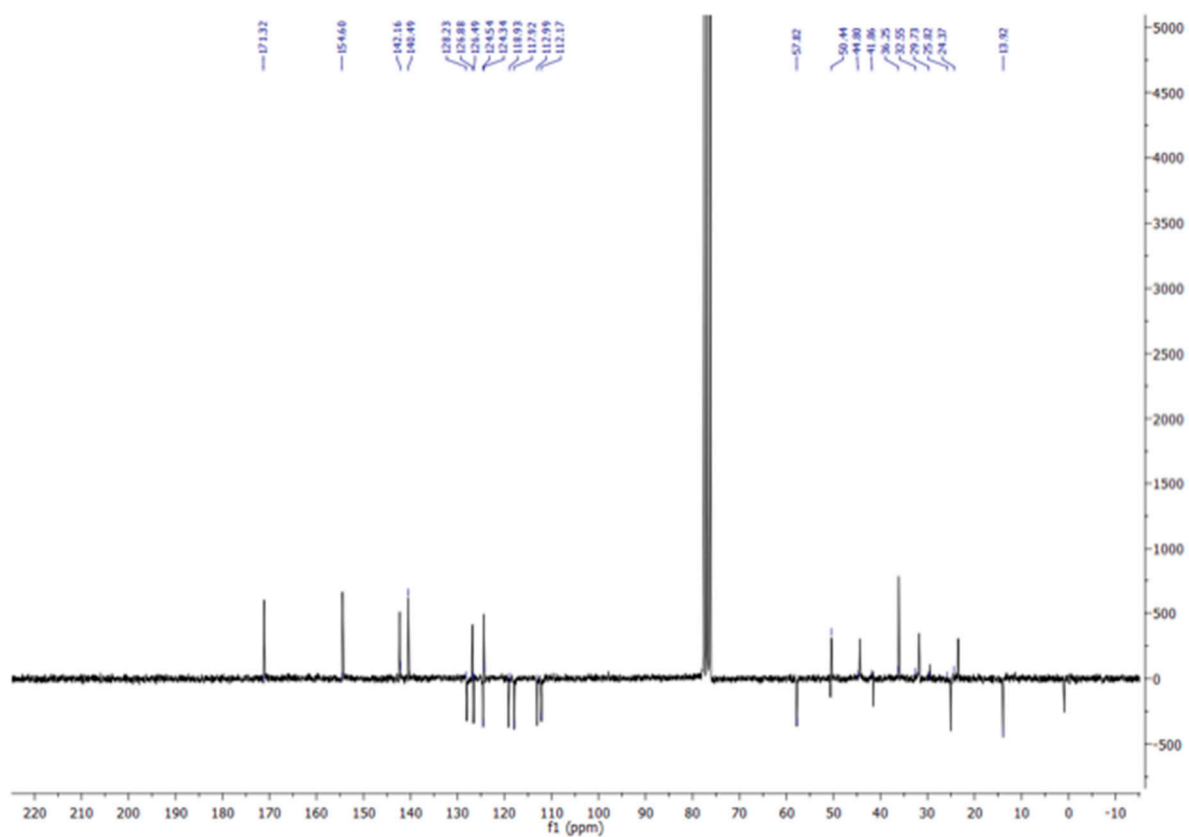


Figure S2. ¹³C-NMR (200 MHz, CDCl₃) spectrum of compound **3**.

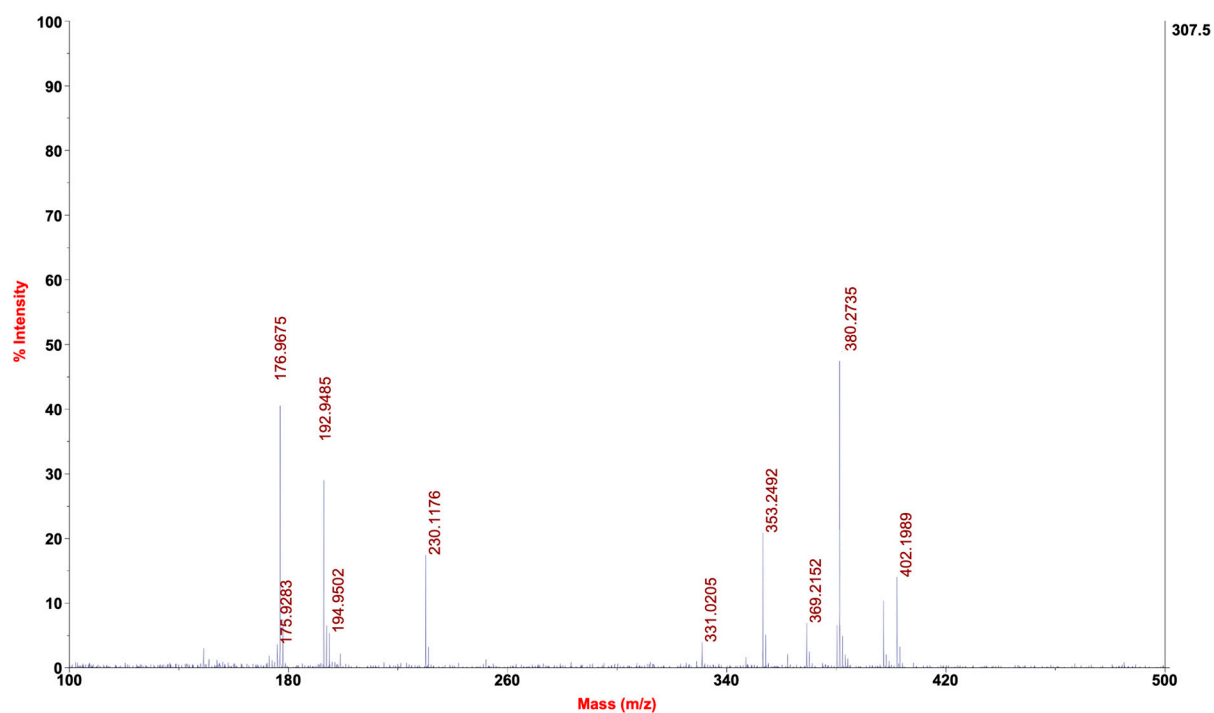


Figure S3. MALDI spectrum of compound **3**.

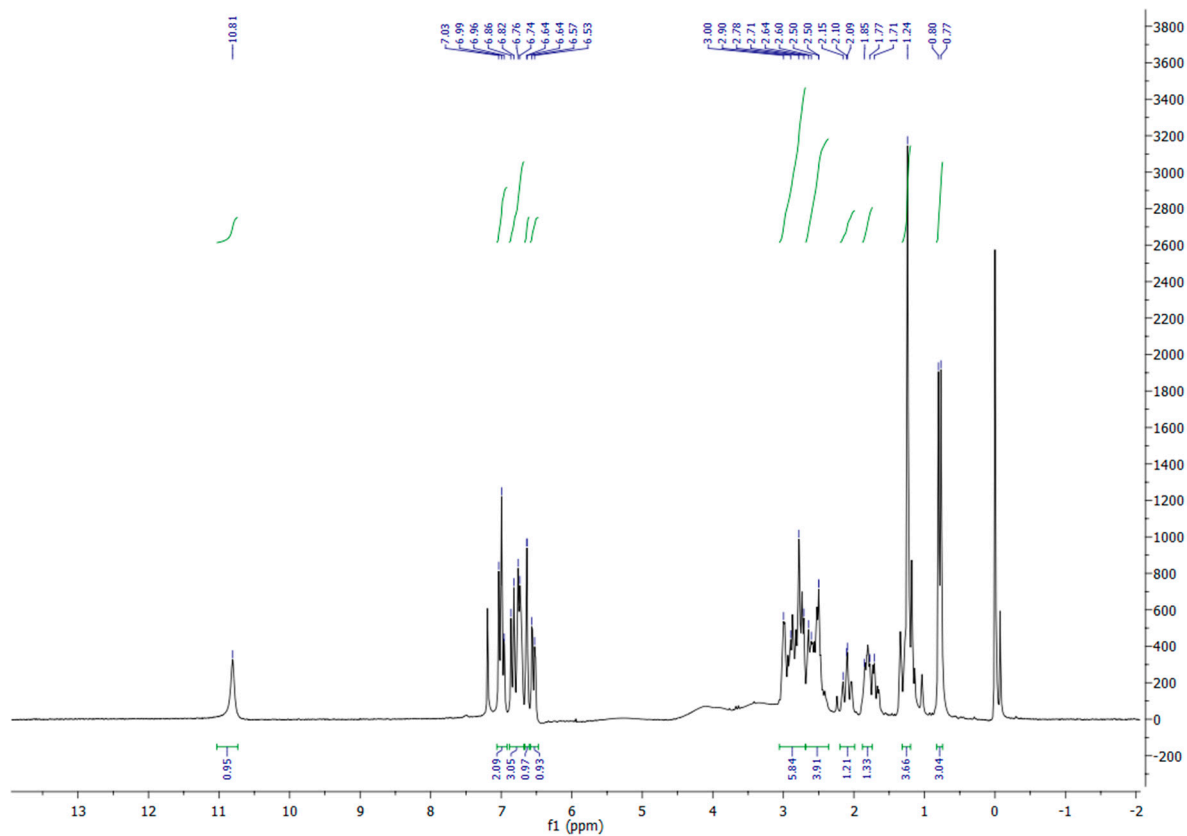


Figure S4. ¹H-NMR (200 MHz, CDCl₃) spectrum of compound 4.

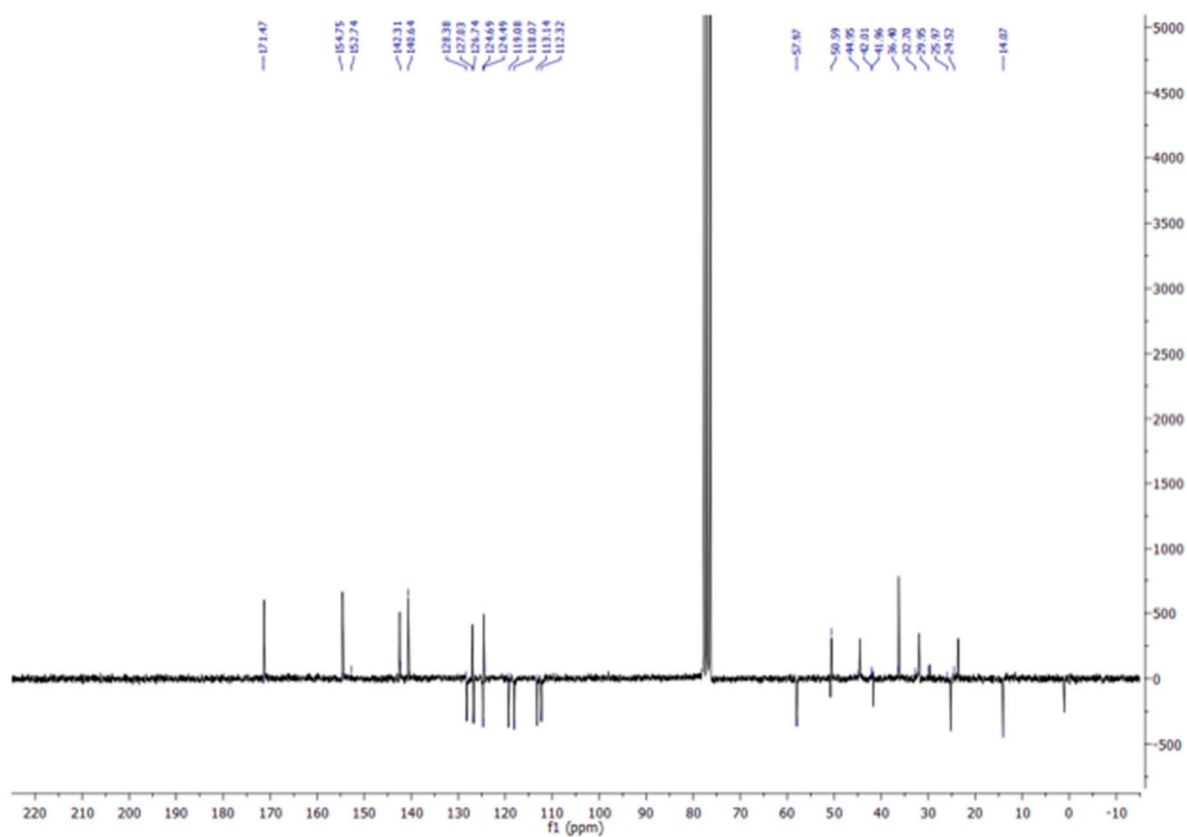


Figure S5. ¹³C-NMR (200 MHz, CDCl₃) spectrum of compound 4.

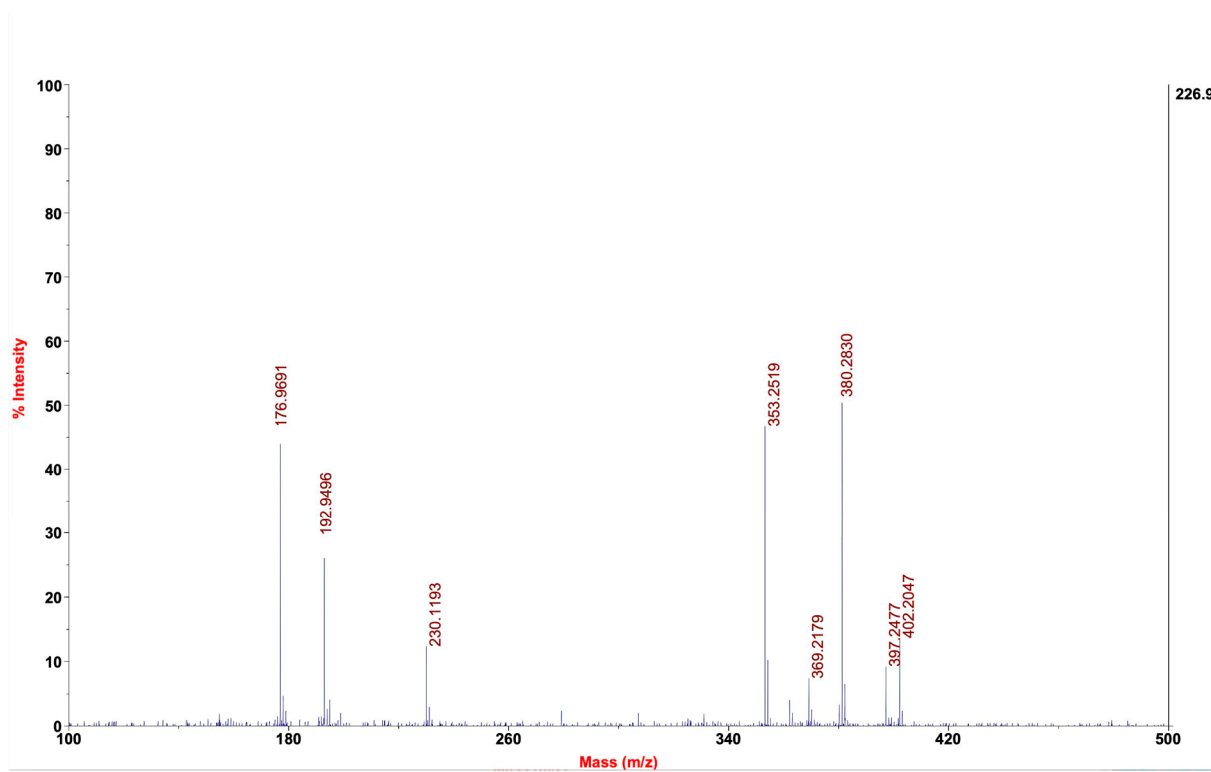


Figure S6. MALDI spectrum of compound 4.

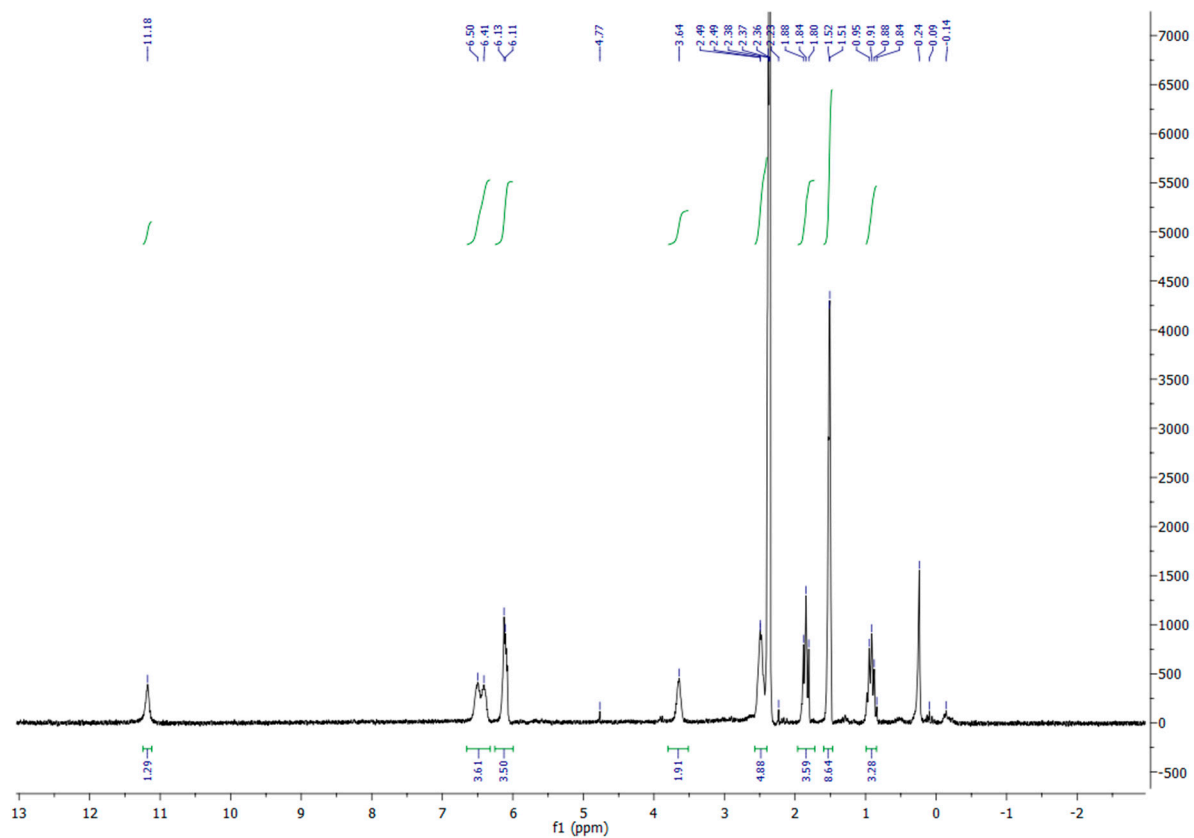


Figure S7. ^1H -NMR (200 MHz, $\text{DMSO}-d_6$) spectrum of compound **5**.

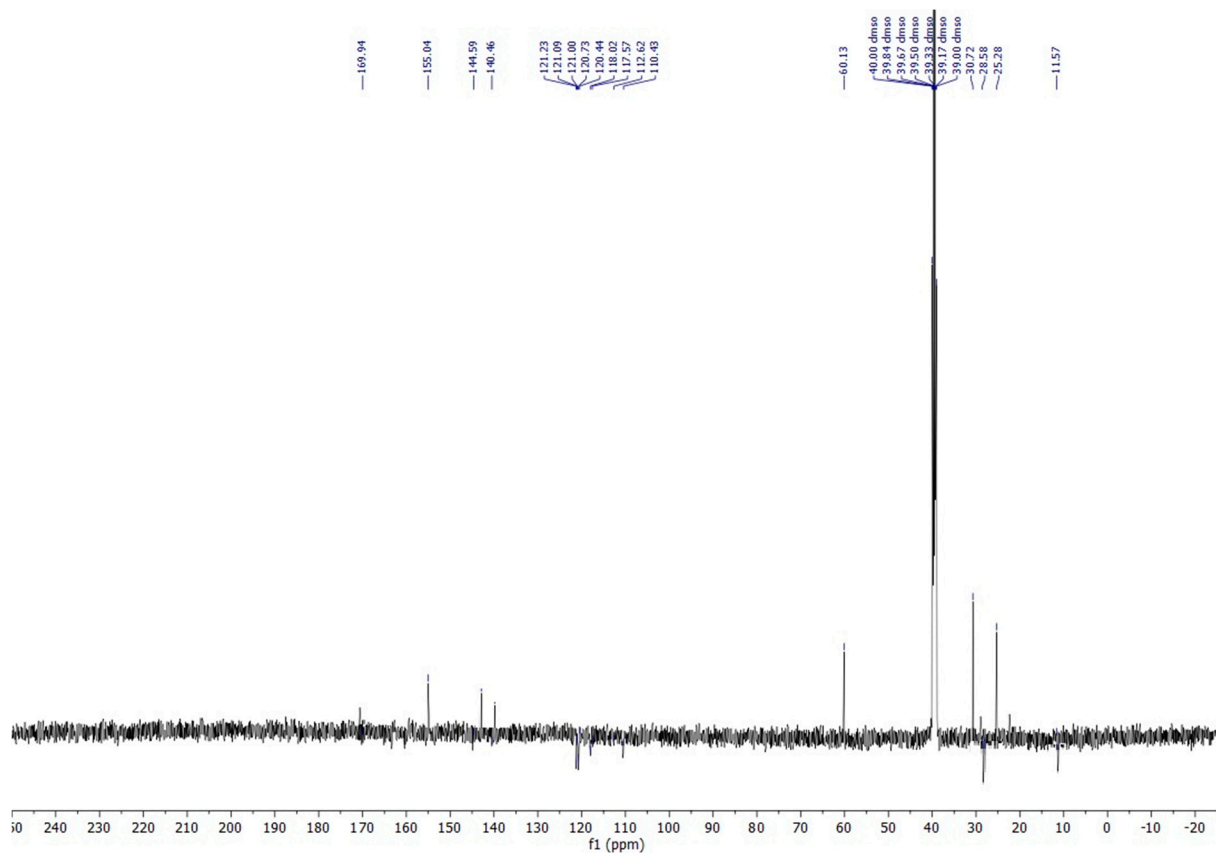


Figure S8. ^{13}C -NMR (200 MHz, $\text{DMSO}-d_6$) spectrum of compound **5**.

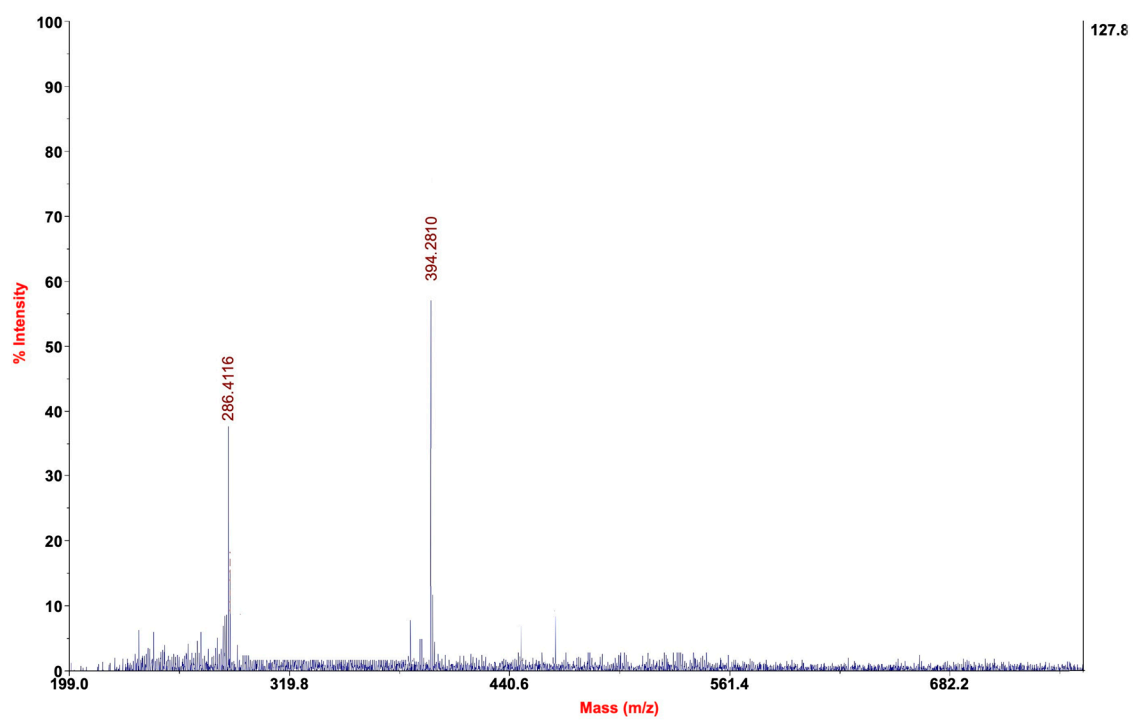


Figure S9. MALDI spectrum of compound **5**.

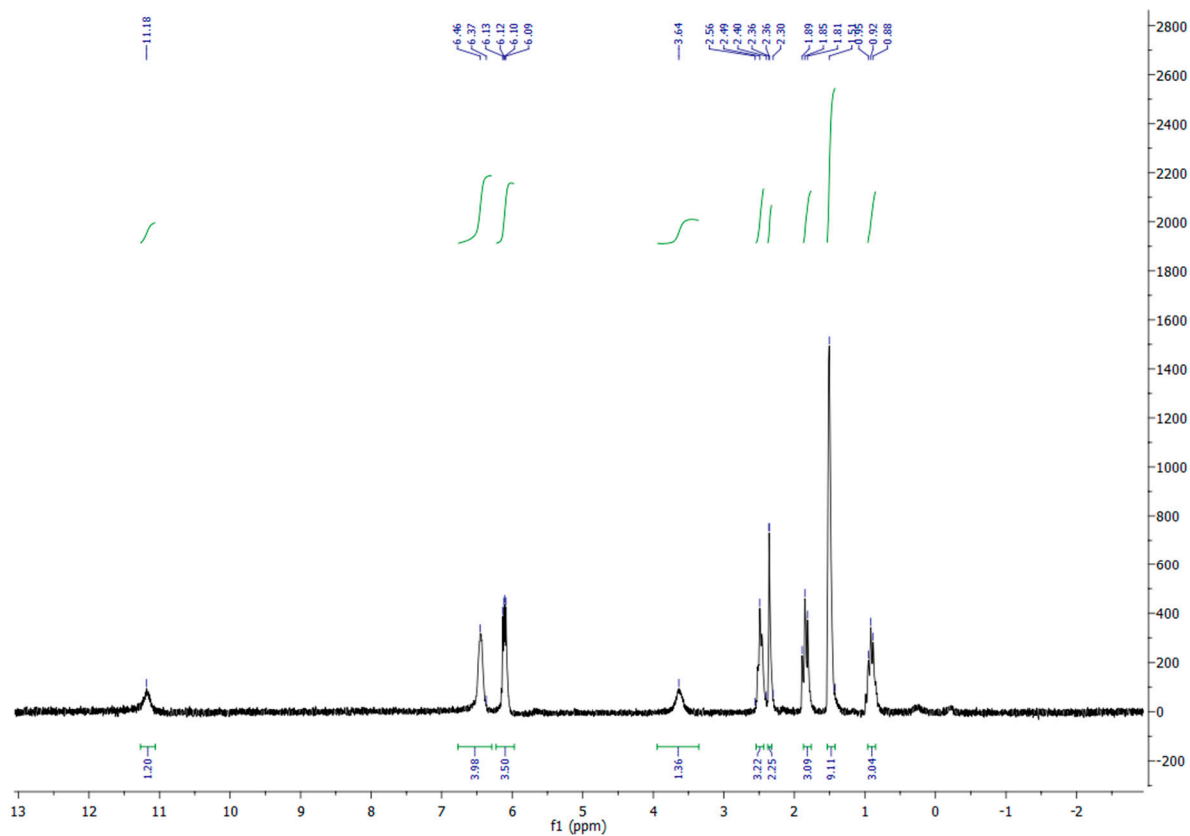


Figure S10. ¹H-NMR (200 MHz, DMSO-*d*₆) spectrum of compound 6.

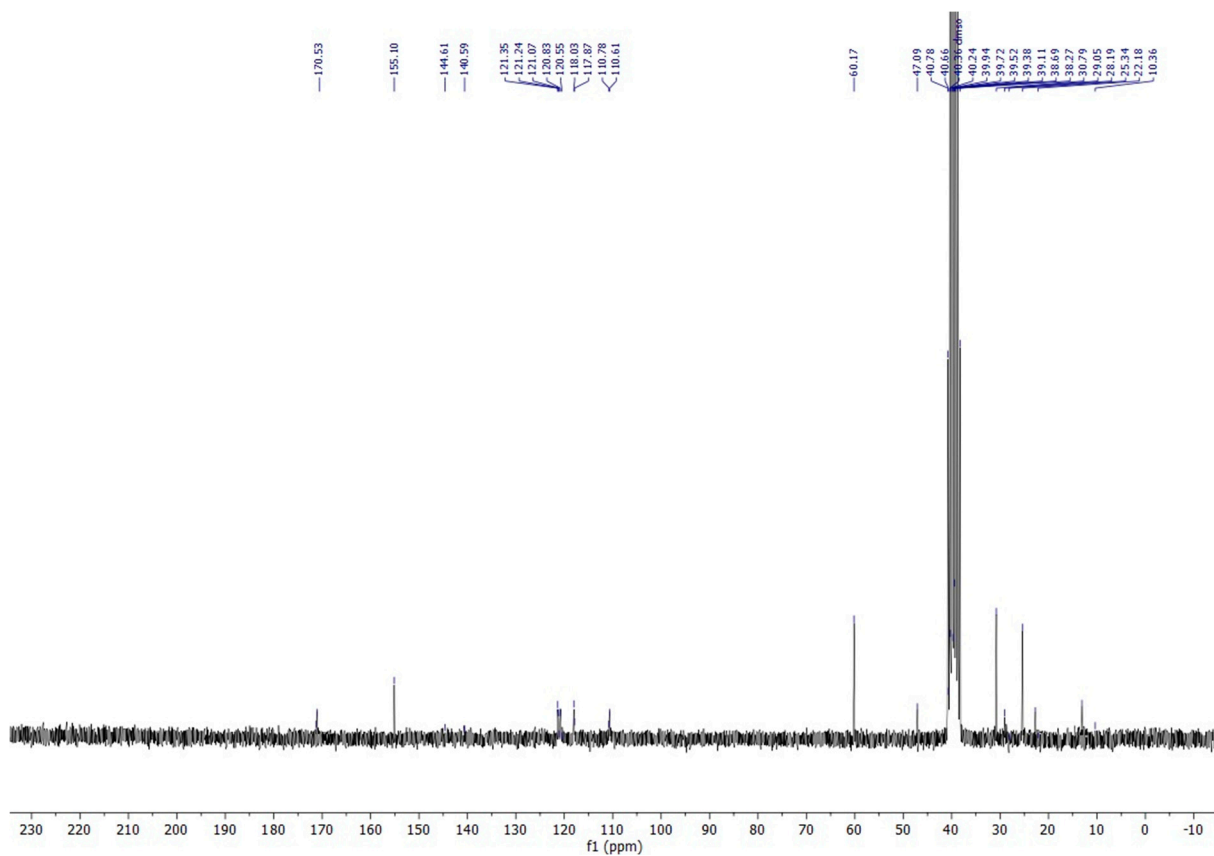


Figure S11. ¹³C-NMR (200 MHz, DMSO-*d*₆) spectrum of compound 6.

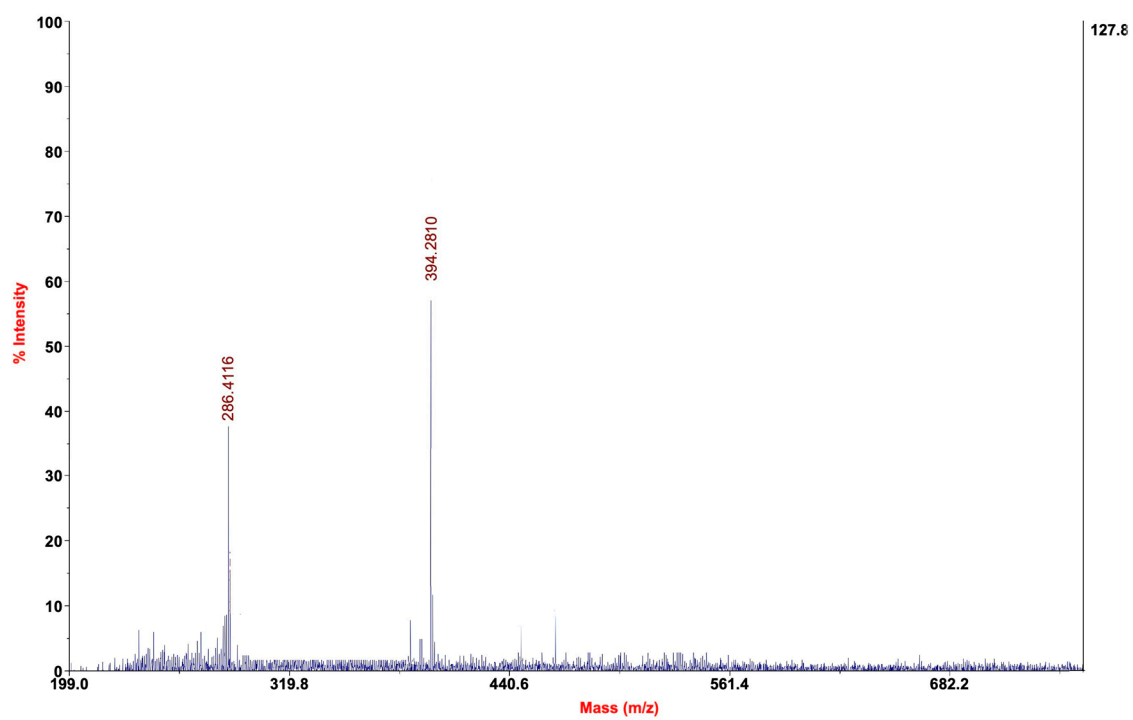


Figure S12. MALDI spectrum of compound **6**.

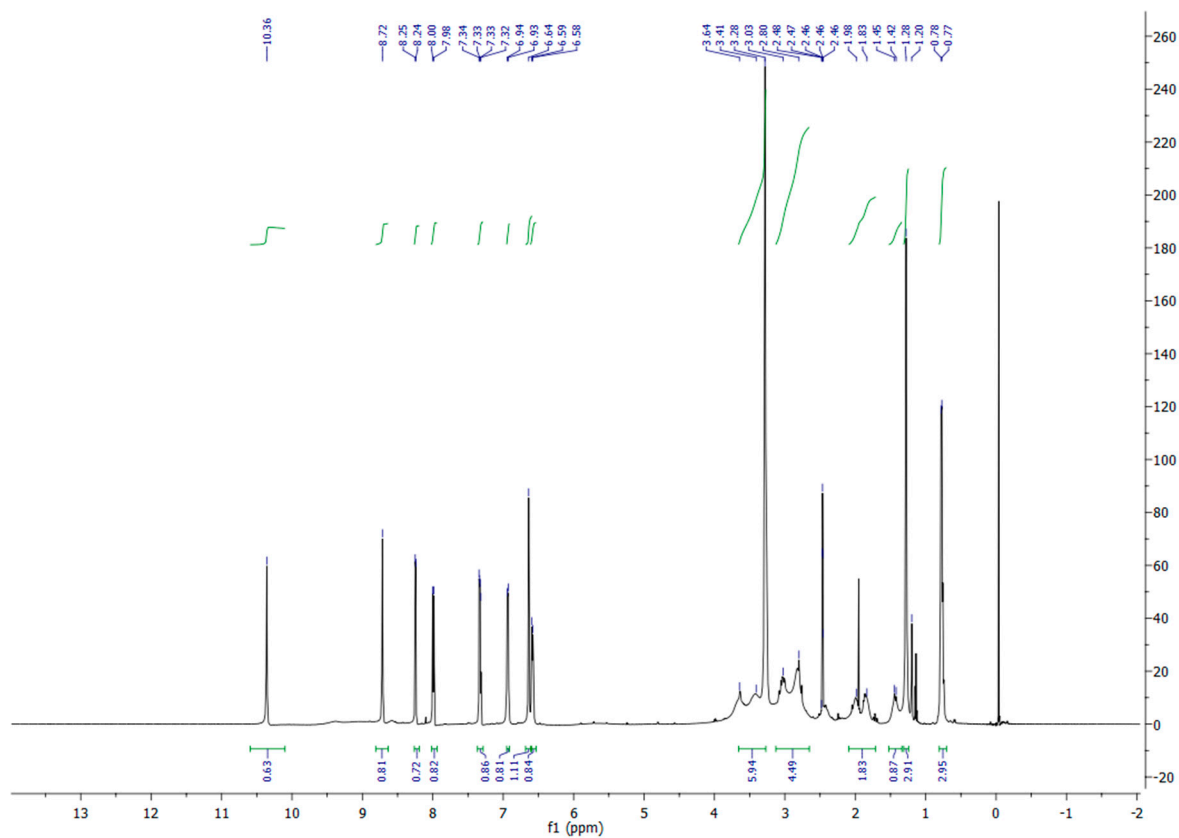


Figure S13. ¹H-NMR (200 MHz, DMSO-*d*₆) spectrum of compound 7.

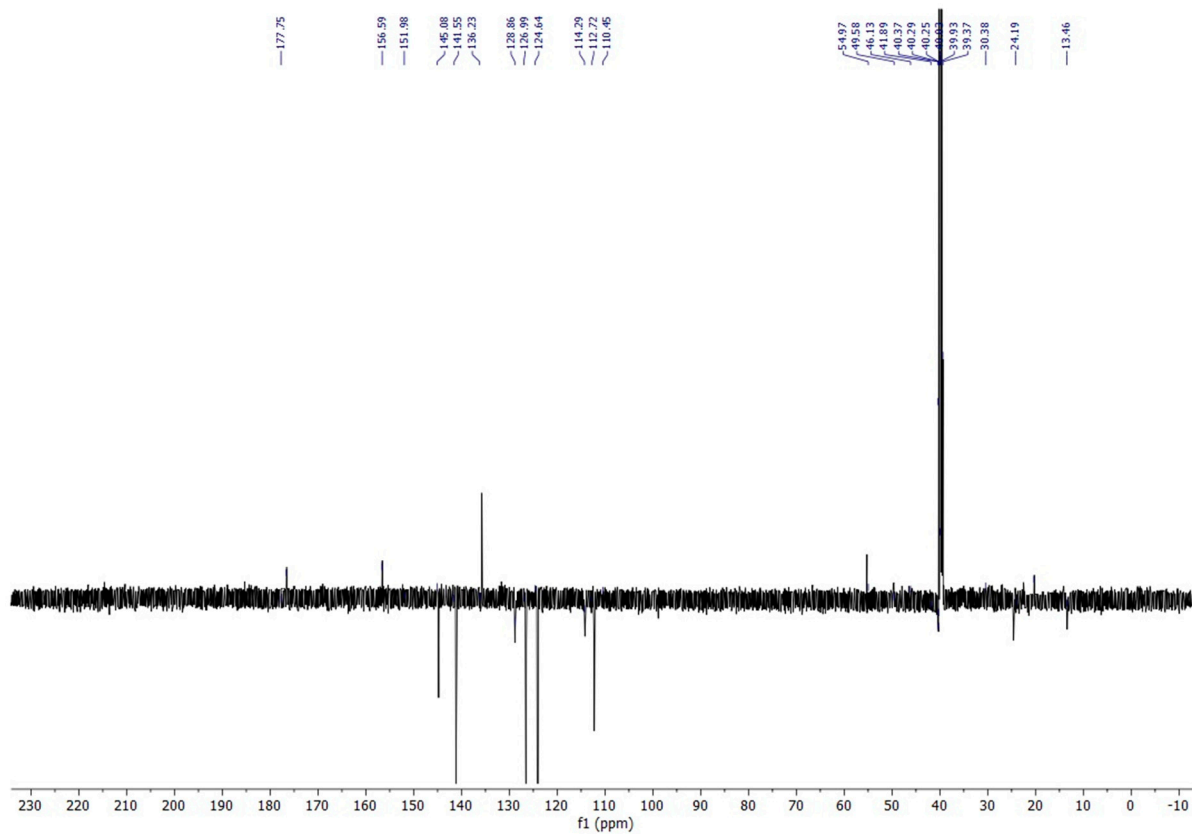


Figure S14. ¹³C-NMR (200 MHz, DMSO-*d*₆) spectrum of compound 7.

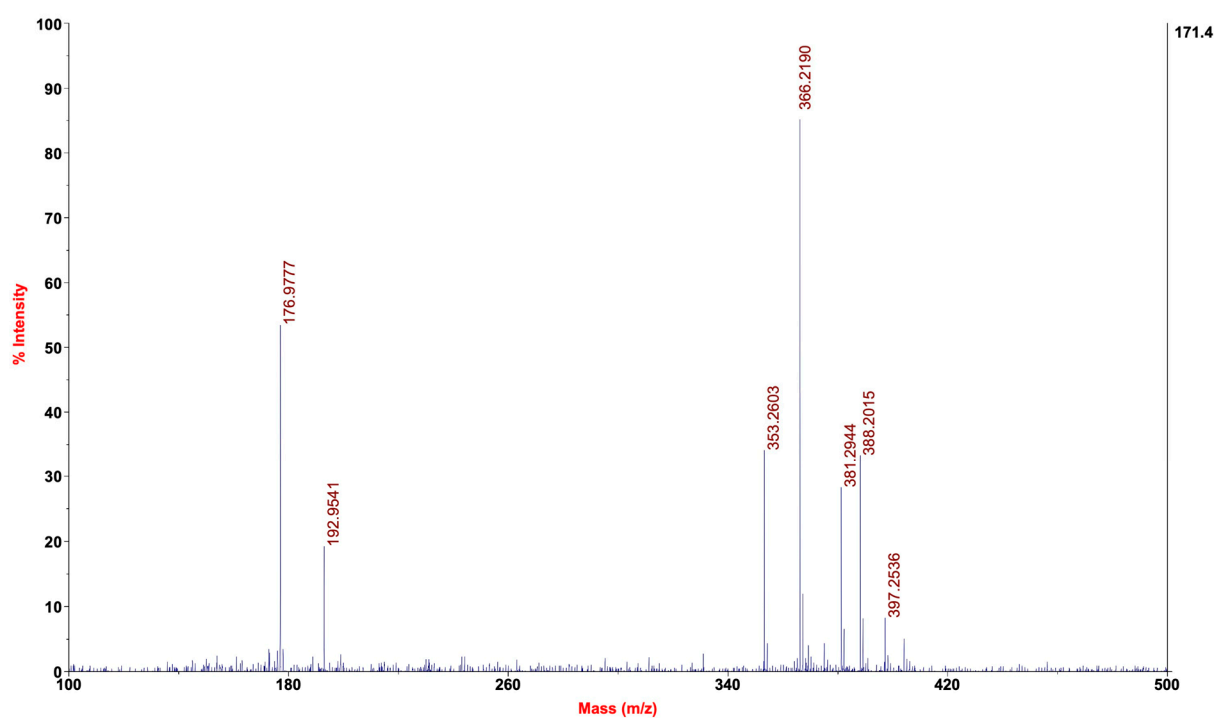


Figure S15. MALDI spectrum of compound **7**.

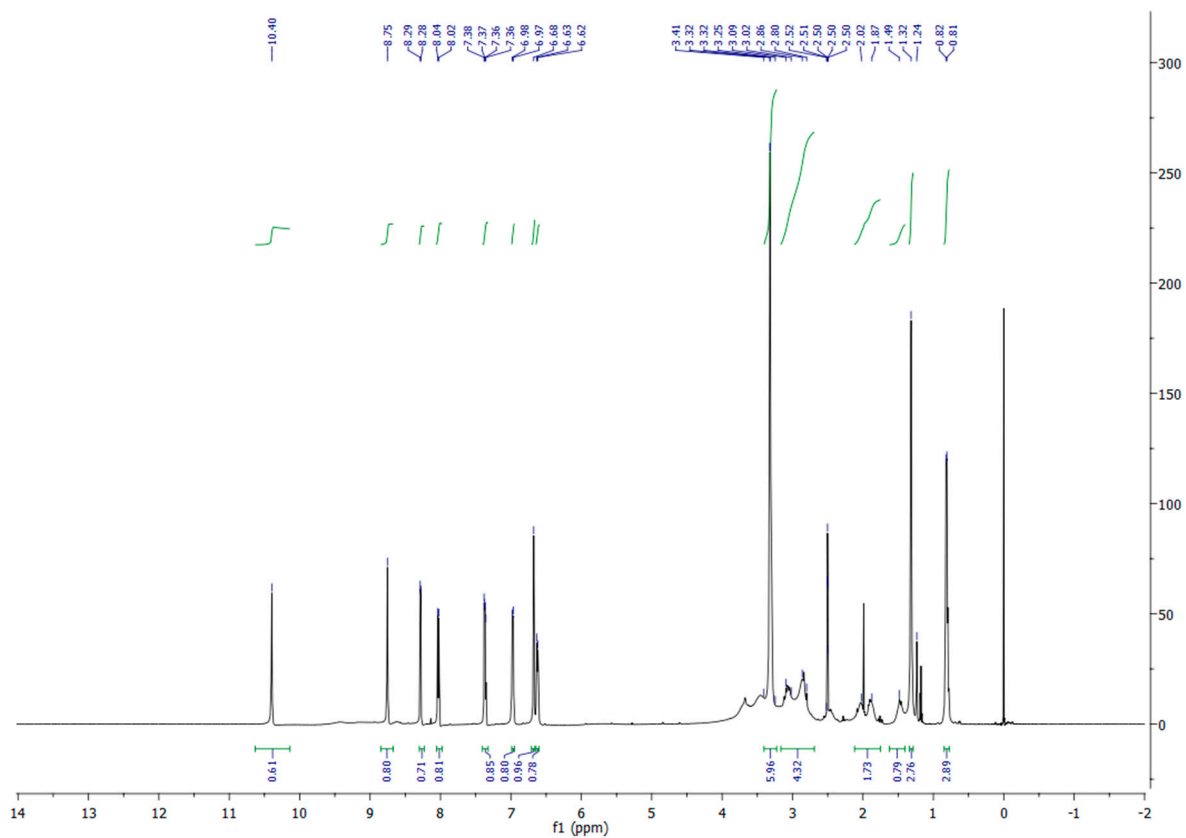


Figure S16. ¹H-NMR (200 MHz, DMSO-*d*₆) spectrum of compound **8**.

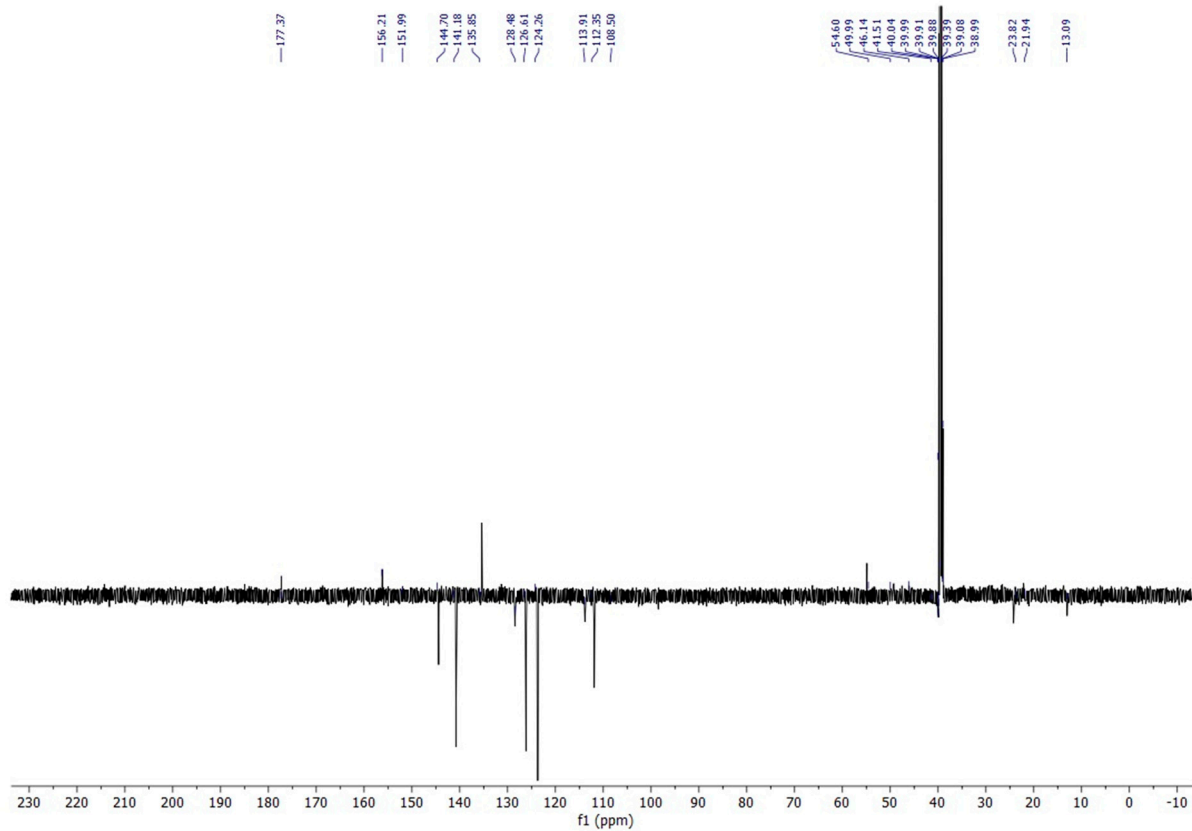


Figure S17. ¹³C-NMR (200 MHz, DMSO-*d*₆) spectrum of compound **8**.

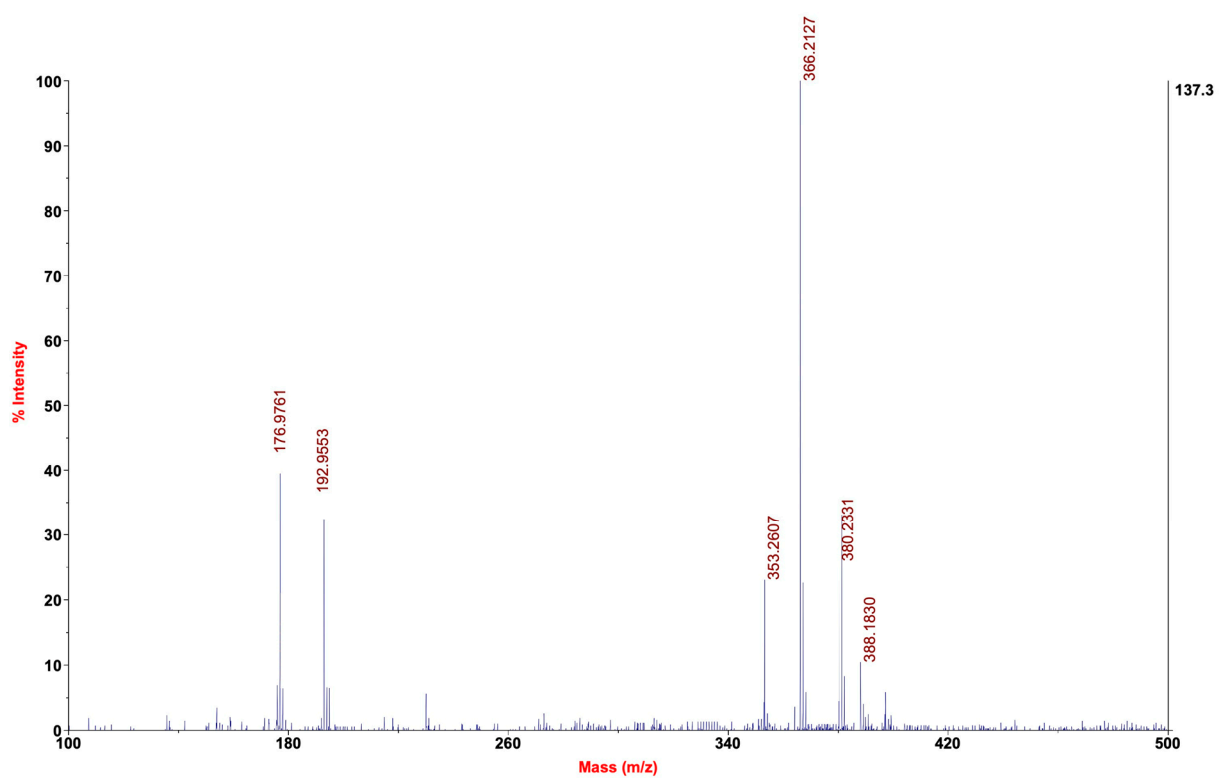


Figure S18. MALDI spectrum of compound **8**.

Table S1. Elemental analysis data for compounds **3–8**.

			Calcd			Found		
Compd	Formula	MW	C	H	N	C	H	N
3	C ₂₃ H ₂₉ N ₃ O ₂	379.49	72.79	7.70	11.07	72.82	7.73	11.04
4	C ₂₃ H ₂₉ N ₃ O ₂	379.49	72.79	7.70	11.07	72.78	7.74	11.02
5	C ₂₄ H ₃₁ N ₃ O ₂	393.52	73.25	7.94	10.68	73.27	7.96	10.63
6	C ₂₄ H ₃₁ N ₃ O ₂	393.52	73.25	7.94	10.68	73.23	7.97	10.65
7	C ₂₂ H ₂₇ N ₃ O ₂	365.46	72.30	7.45	11.50	72.32	7.47	11.48
8	C ₂₂ H ₂₇ N ₃ O ₂	365.46	72.30	7.45	11.50	72.34	7.45	11.46