

Supplementary Information

Two Novel Donepezil-Lipoic Acid Hybrids: Synthesis, Anticholinesterase and Antioxidant Activities and Theoretical Studies

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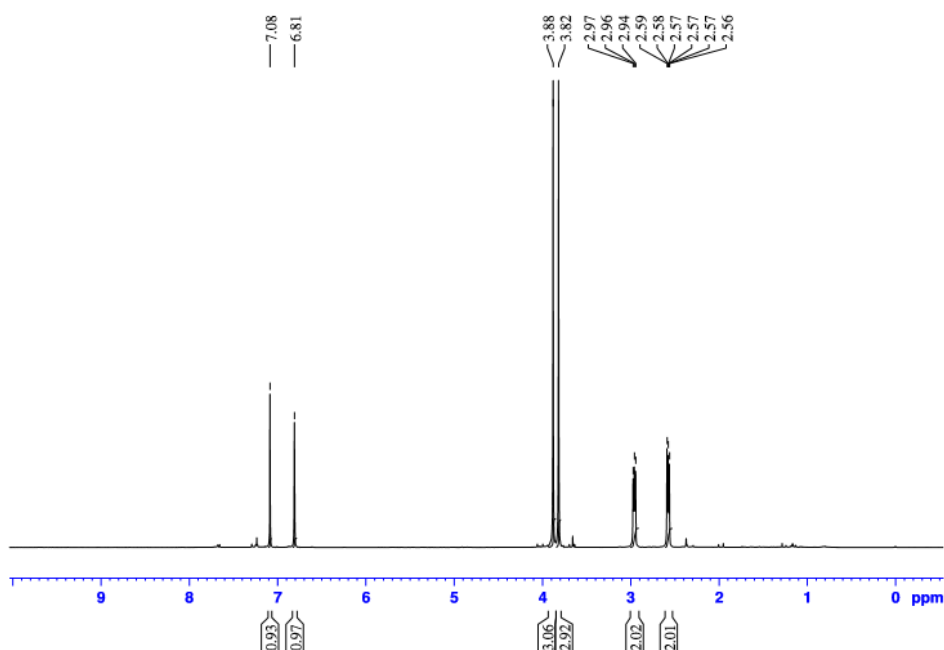


Figure S1. ¹H NMR spectrum (400 MHz, CDCl₃) of compound (6).

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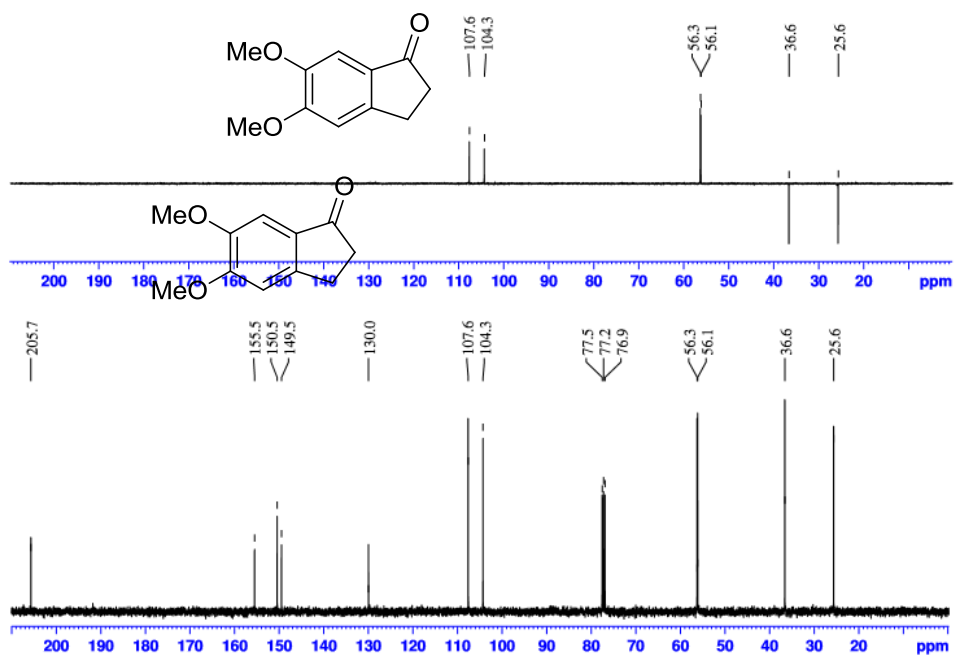


Figure S2. ^{13}C NMR spectrum (down) and DEPT 135 (up) (100 MHz, CDCl_3) of compound (6).

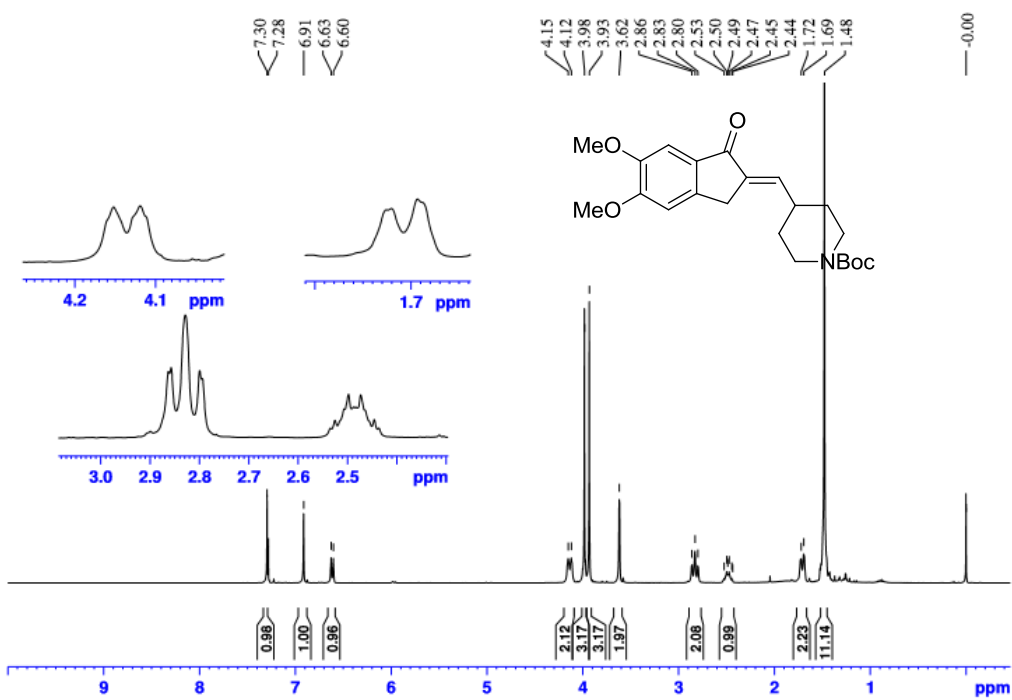


Figure S3. ^1H NMR spectrum (200 MHz, CDCl_3) of compound (7).

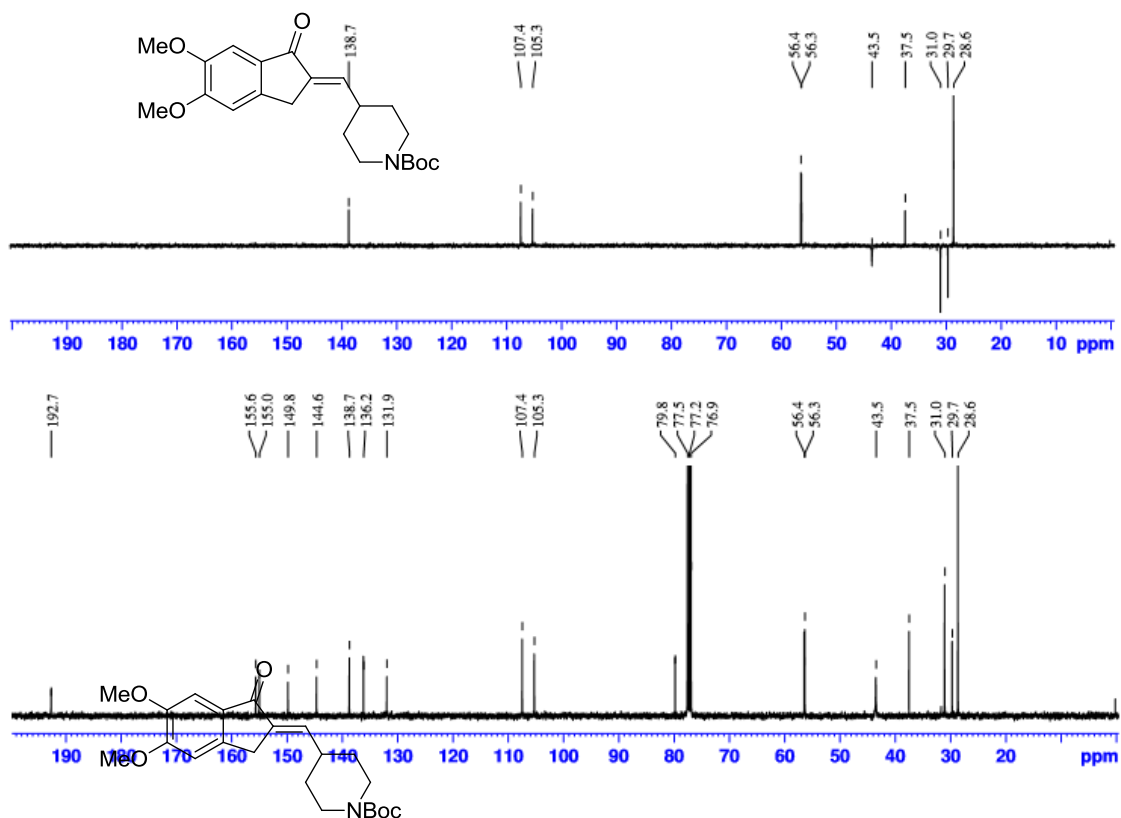


Figure S4. ^{13}C NMR spectrum (down) and distortionless enhancement by polarization transfer (DEPT) 135 (up) (50 MHz, CDCl_3) of compound (7).

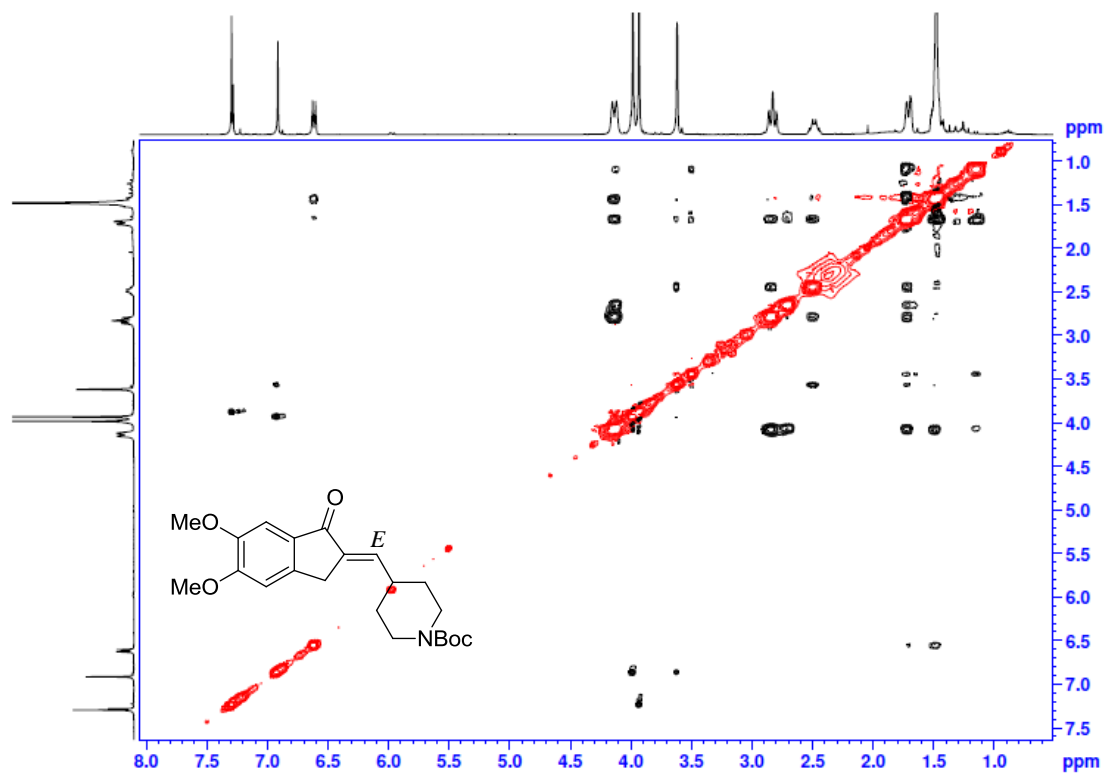


Figure S5. Nuclear Overhauser effect (NOESY) spectrum (400 MHz, CDCl_3) of compound (7).

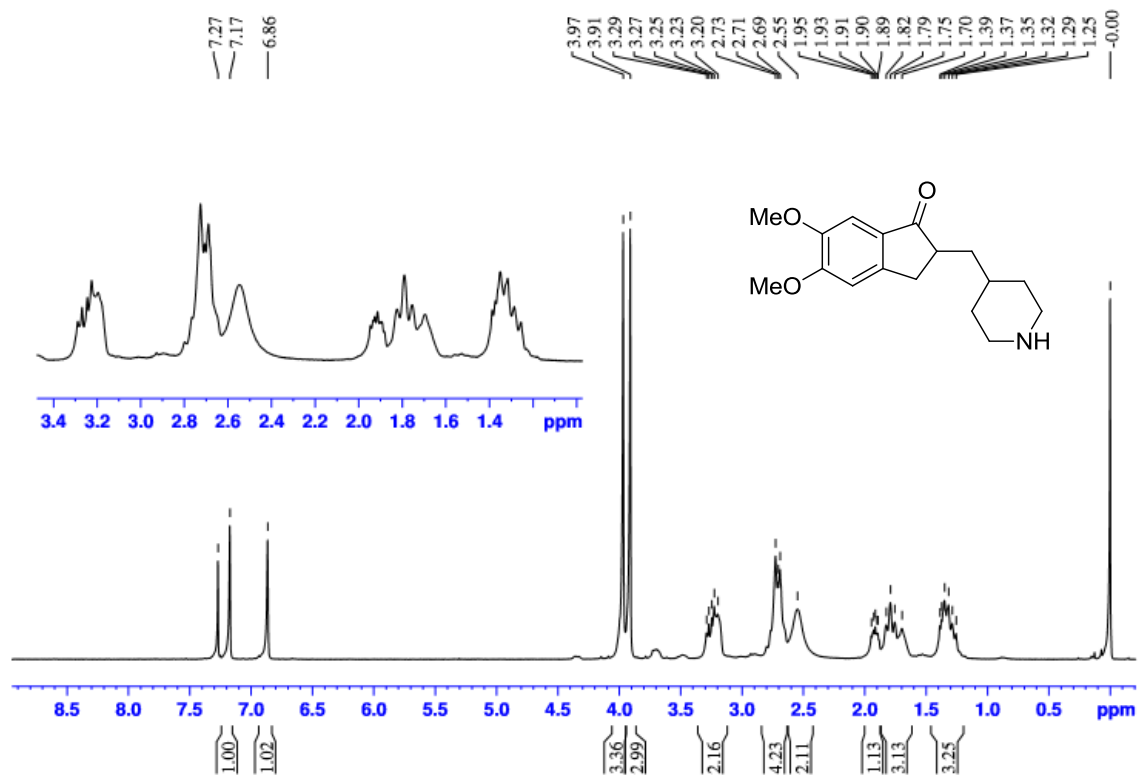


Figure S6. ¹H NMR spectrum (400 MHz, CDCl₃) of compound (4).

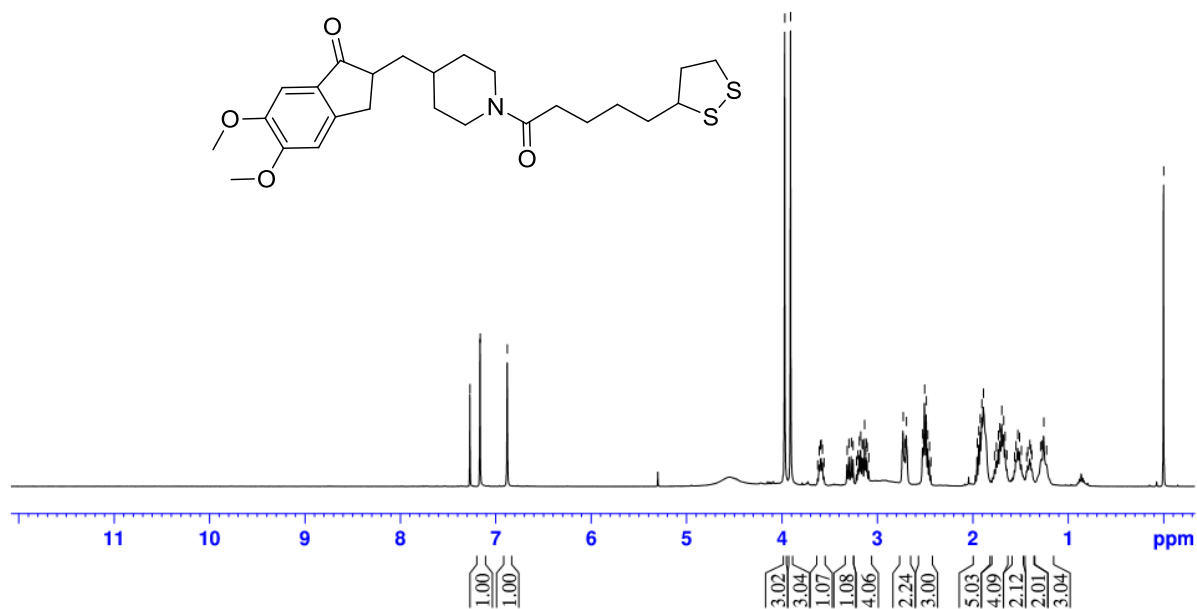


Figure S7. ¹H NMR spectrum (400 MHz, CDCl₃) of compound (1).

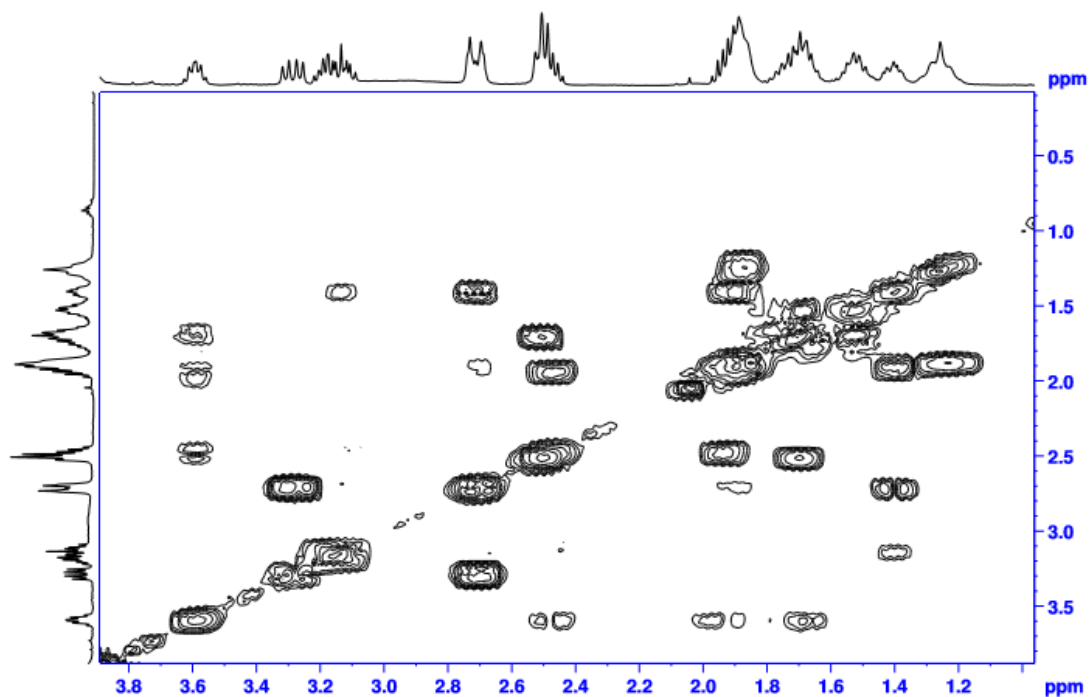


Figure S8. Correlated spectroscopy (COSY) correlations spectrum (400 MHz, CDCl_3) of compound (1).

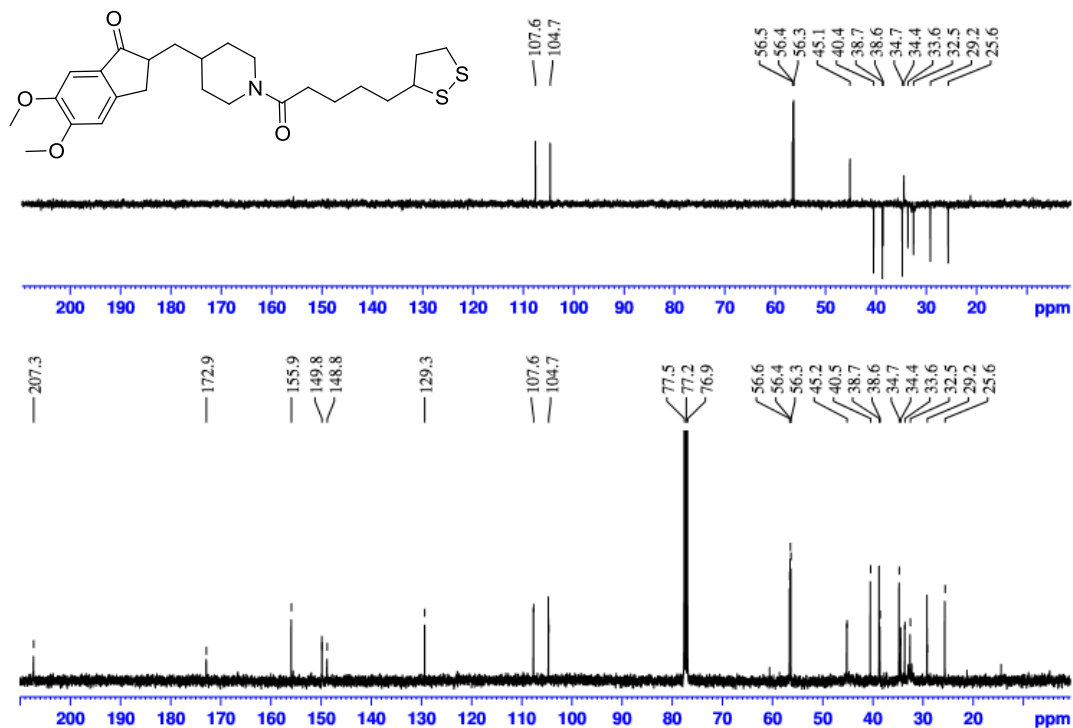


Figure S9. ^{13}C NMR spectrum (down) and DEPT 135 (up) (100 MHz, CDCl_3) of compound (1).

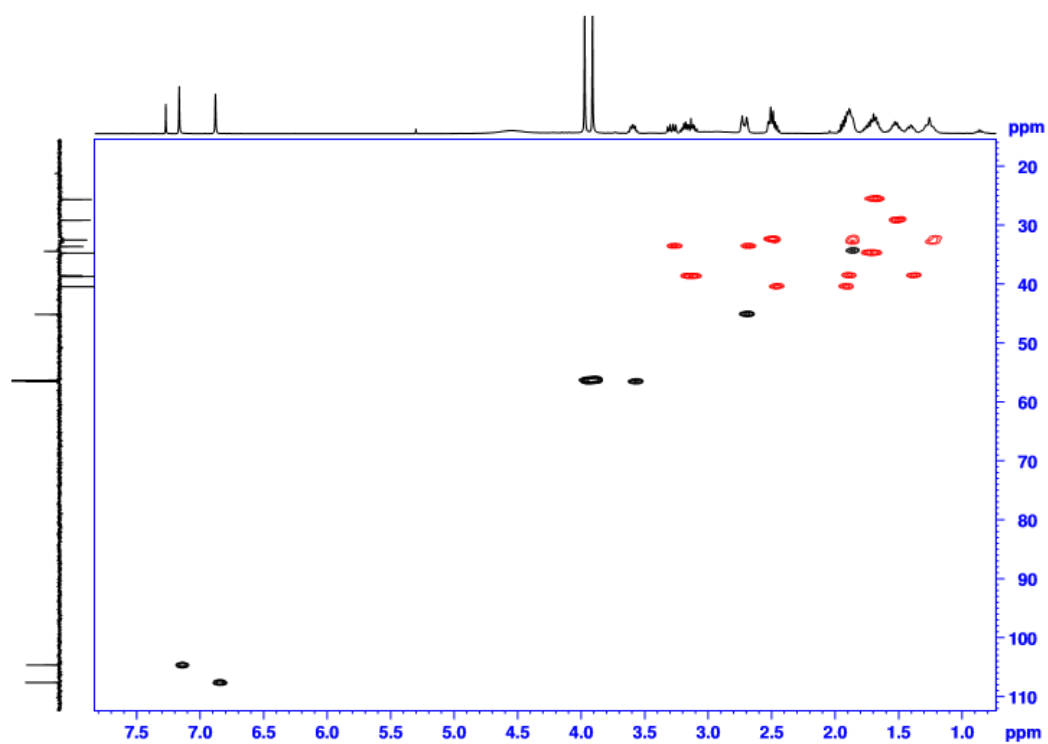


Figure S10. Heteronuclear single quantum correlation (HSQC) spectrum (400 MHz, CDCl₃) of compound (1).

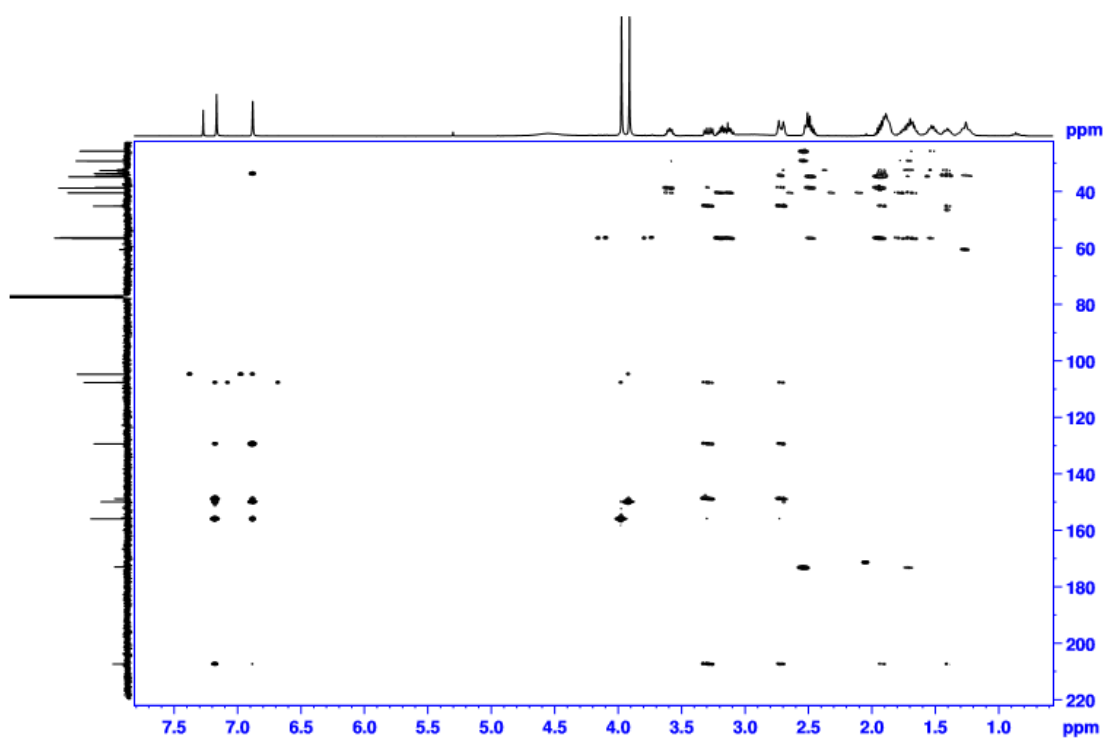


Figure S11. Heteronuclear multiple bond correlation (HMBC) spectrum (400 MHz, CDCl₃) of compound (1).

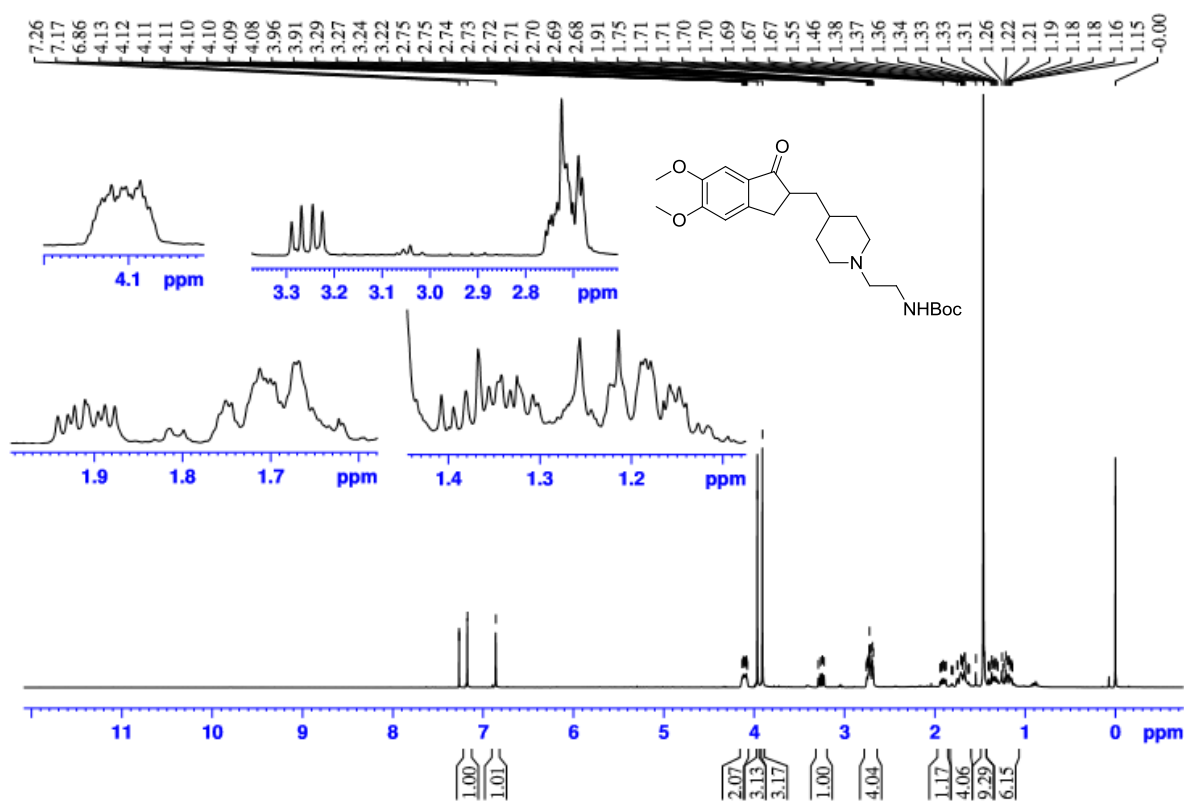


Figure S12. ¹H NMR spectrum (400 MHz, CDCl₃) of compound (8).

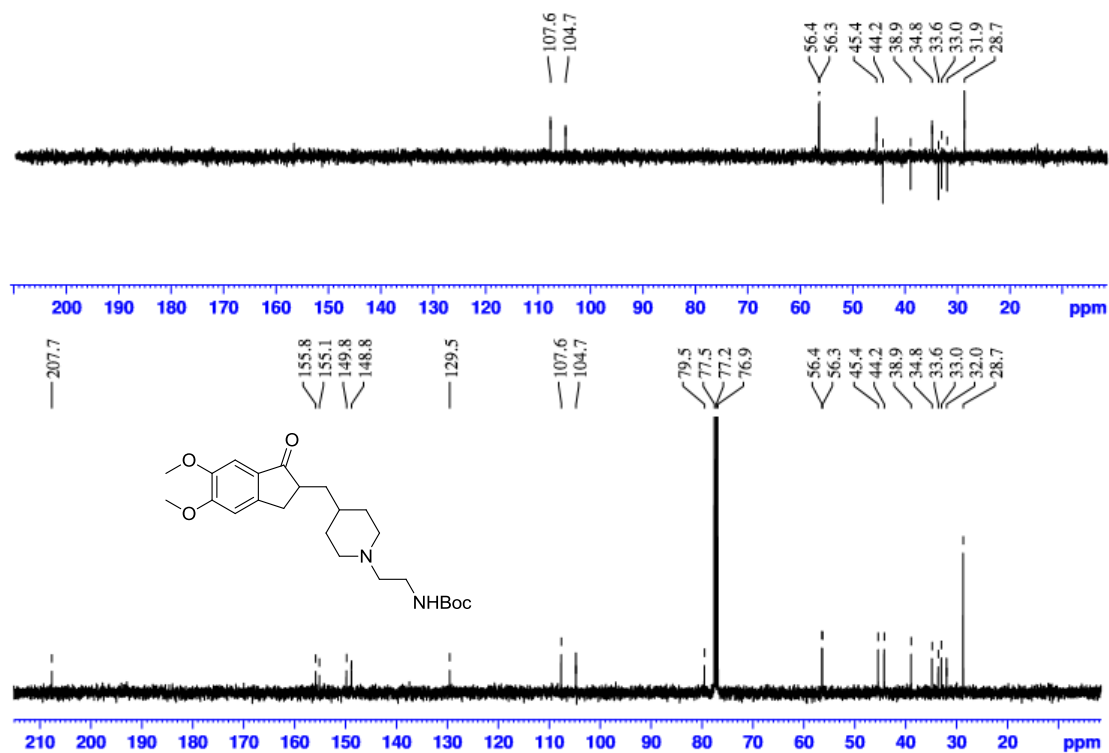


Figure S13. ¹³C NMR spectrum (100 MHz, CDCl₃) of compound (8).

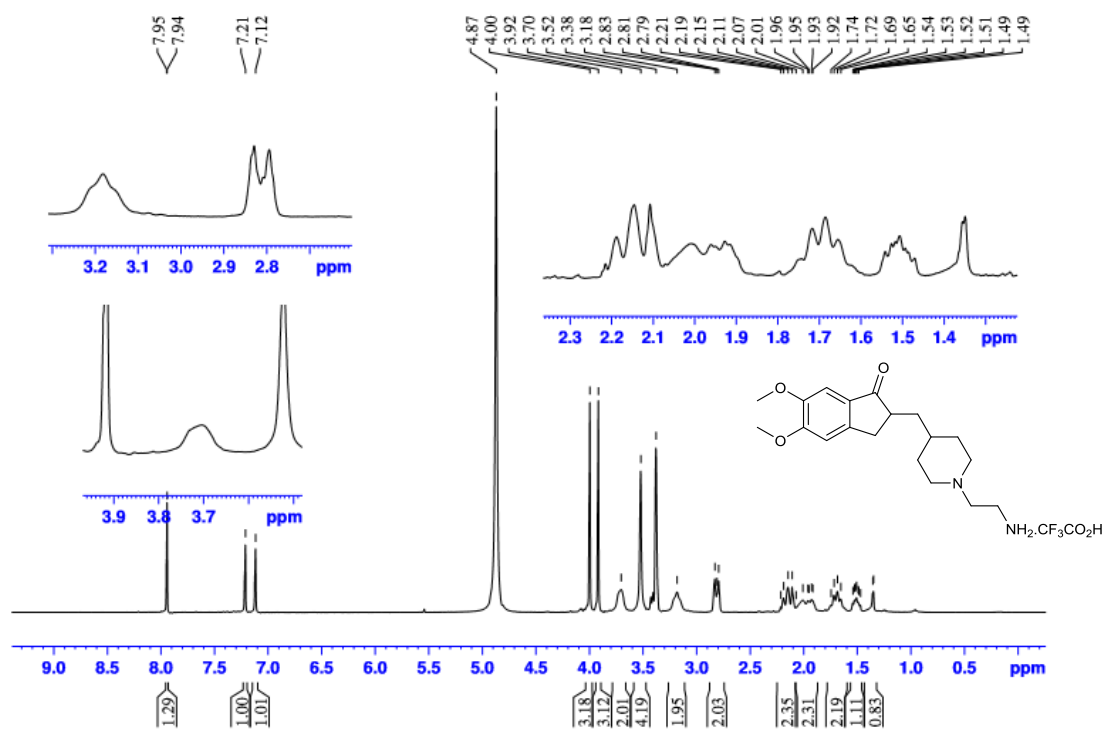


Figure S14. ¹H NMR spectrum (400 MHz, CD₃OD) of compound (9).

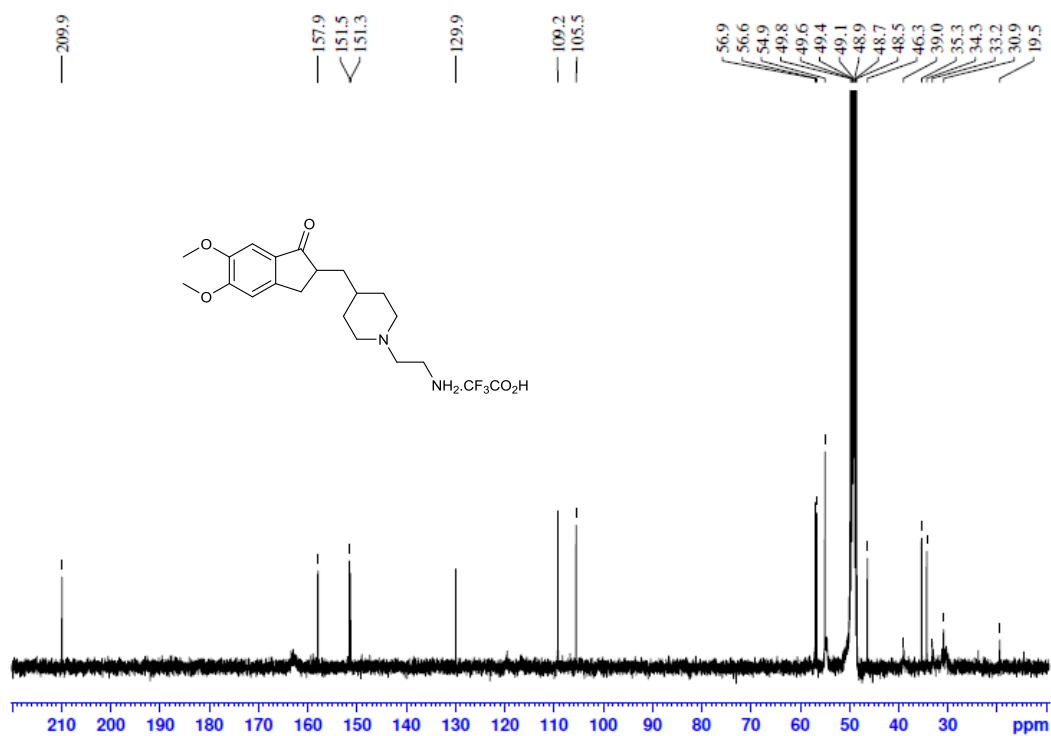


Figure S15. ¹³C NMR spectrum (100 MHz, CD₃OD) of compound (9).

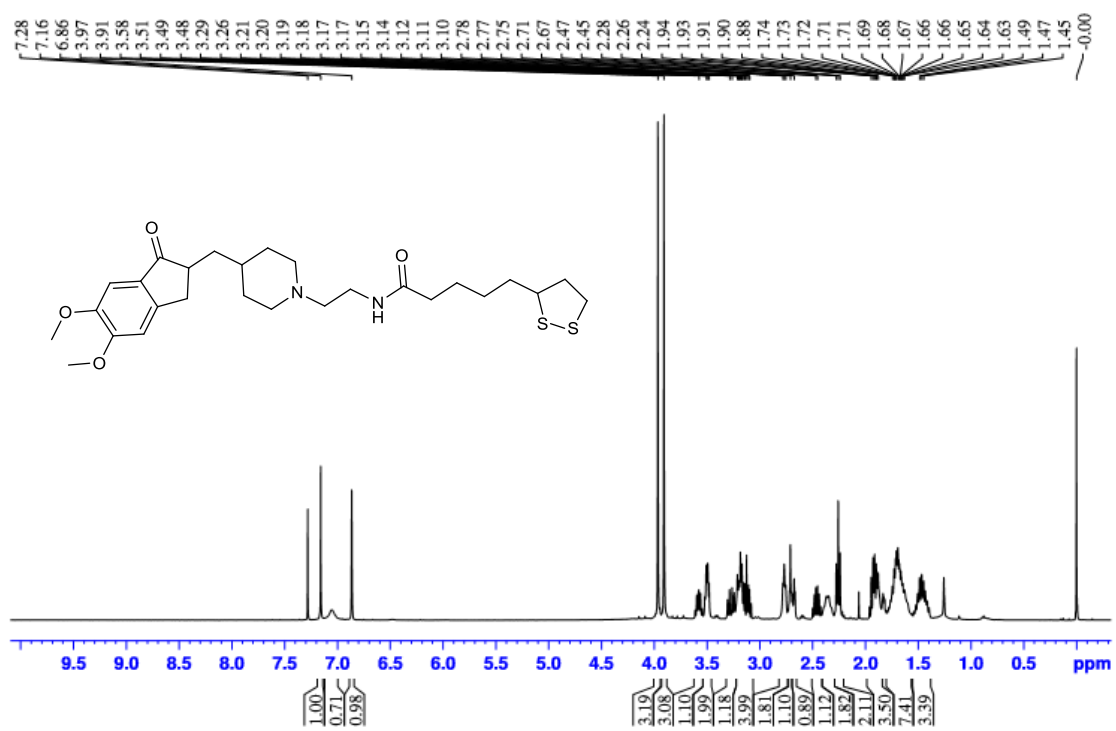


Figure S16. ¹H NMR spectrum (400 MHz, CDCl₃) of compound (2).

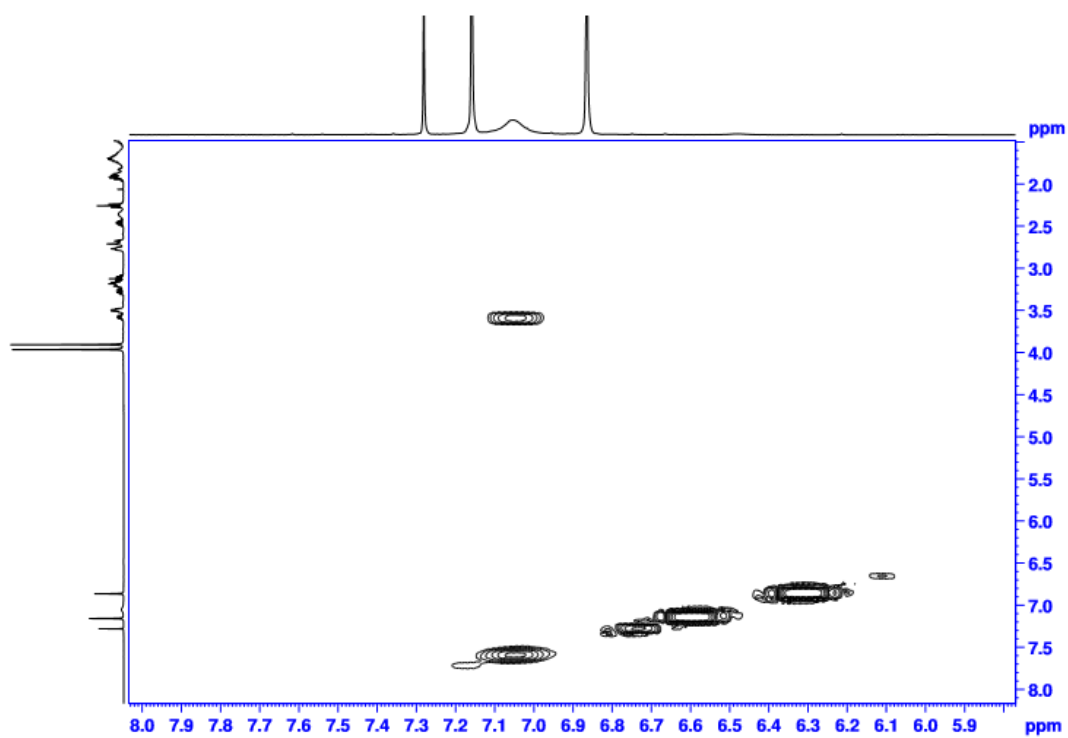


Figure S17. COSY spectrum (400 MHz, CDCl₃) of compound (2).

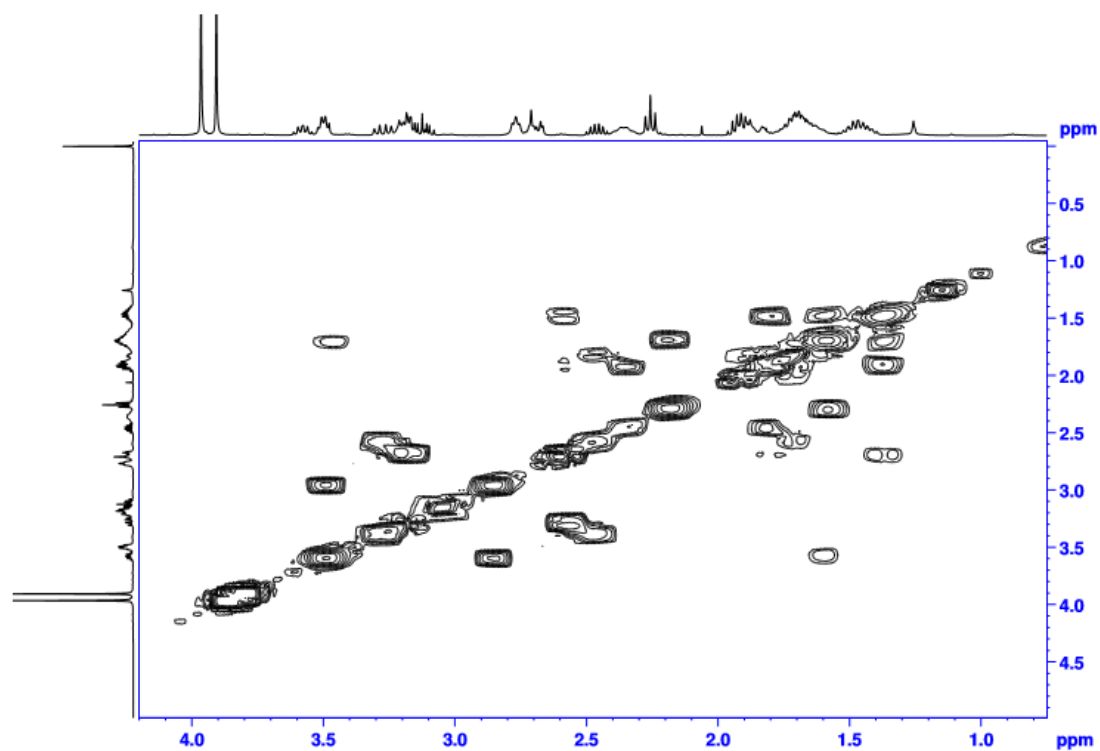


Figure S18. COSY spectrum (400 MHz, CDCl₃) of compound (2).

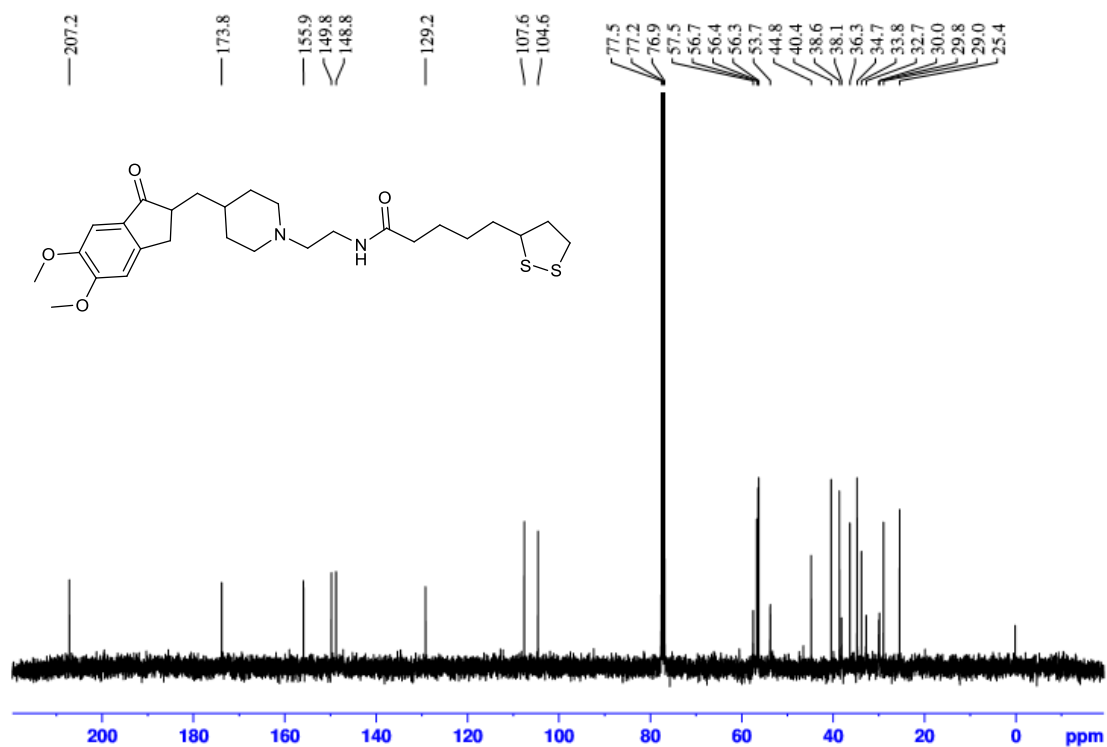


Figure S19. ¹³C NMR spectrum (100 MHz, DMSO-*d*₆) of compound (2).

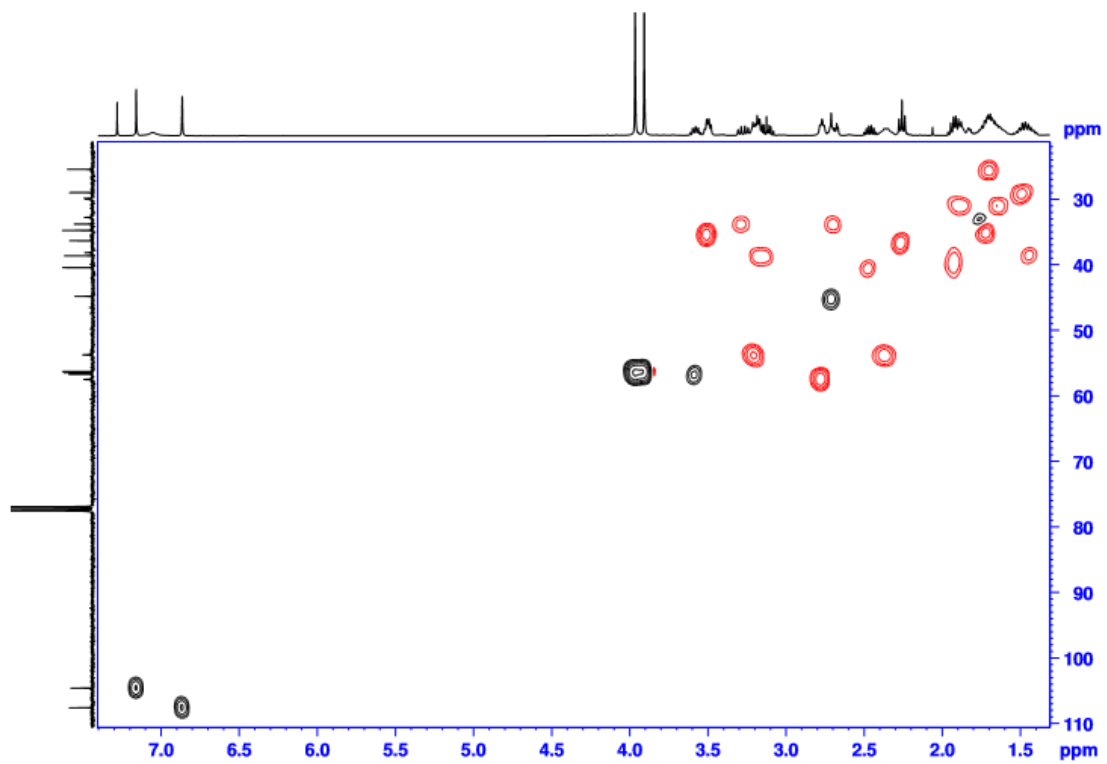


Figure S20. HSQC spectrum (400 MHz, CDCl_3) of compound (2).