

Supplementary Information

N-Alkylated Sulfamic Acid Derivatives as Organocatalyst in Multicomponent Synthesis of Fatty Dihydropyrimidinones

Carolina R. L. Hack,^a Larissa Porciuncula,^a Andressa C. H. Weber,^a
Caroline R. M. D'Oca,^a Dennis Russowsky,^b Jaqueline M. Moura,^c
Luiz A. A. Pinto^c and Marcelo G. M. D'Oca^{*a}

^aLaboratório Kolbe de Síntese Orgânica, Universidade Federal do Rio Grande,
Av. Itália, km 08 s/n, 96203-900 Rio Grande-RS, Brazil

^bLaboratório de Síntese Orgânica, Universidade Federal do Rio Grande do Sul,
Av. Bento Gonçalves 9500, 91501-970 Porto Alegre-RS, Brazil

^cLaboratório de Operações Unitárias, Universidade Federal do Rio Grande, Av. Itália,
km 08 s/n, 96203-900 Rio Grande-RS, Brazil

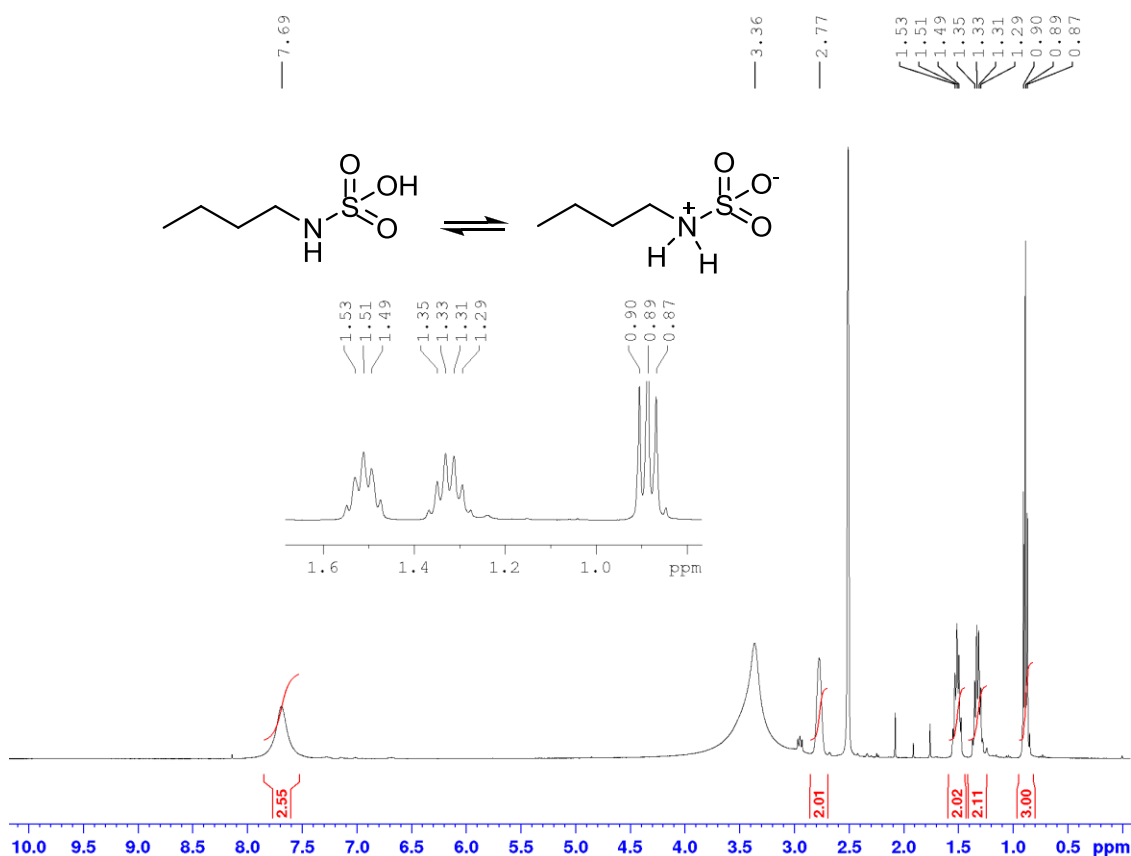


Figure S1. ¹H NMR (400 MHz, DMSO-*d*₆) spectrum of NSA 01.

*e-mail: dqmdoca@furg.br

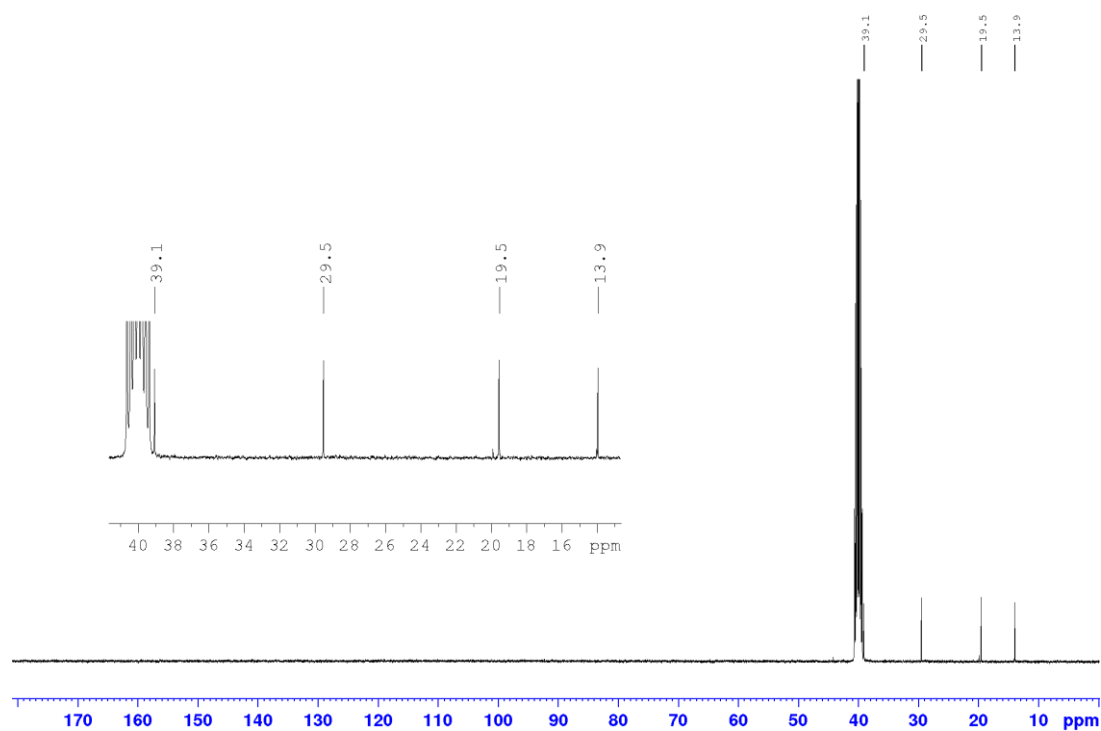


Figure S2. ¹³C NMR (100 MHz, DMSO-*d*₆) spectrum of NSA 01.

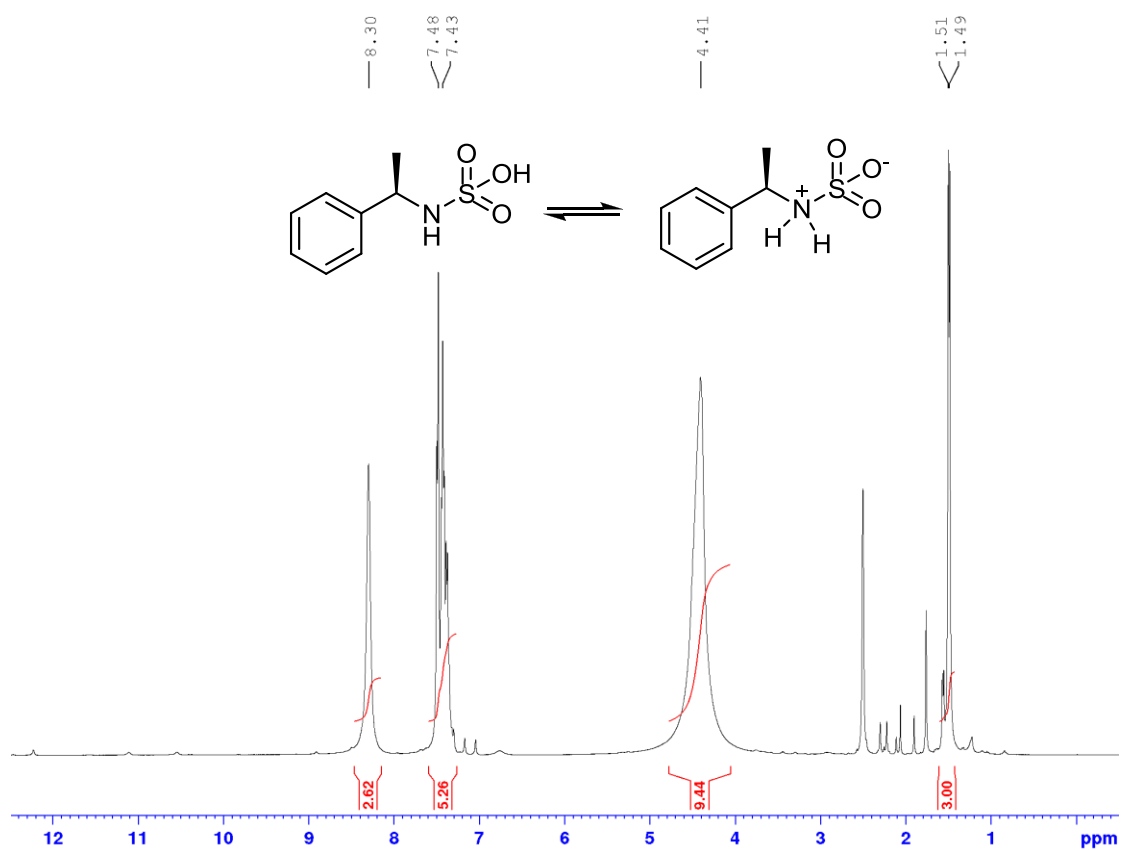


Figure S3. ¹H NMR (400 MHz, DMSO-*d*₆) spectrum of NSA 02.

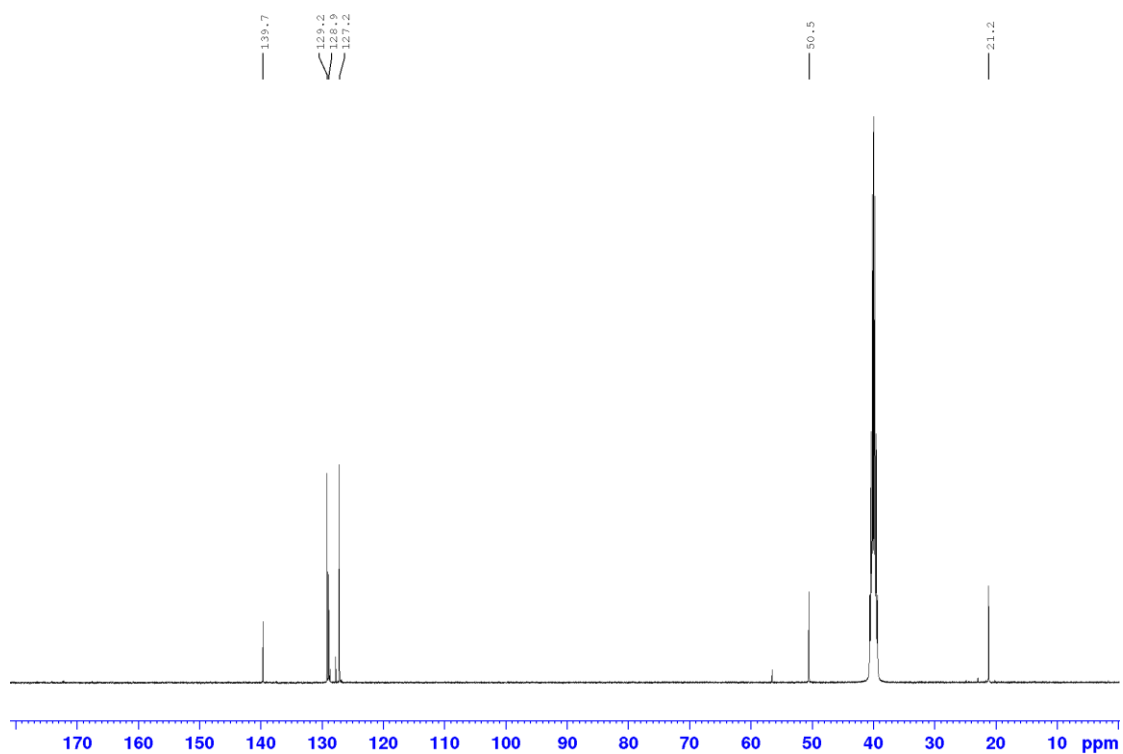


Figure S4. ¹³C NMR (100 MHz, DMSO-*d*₆) spectrum of NSA 02.

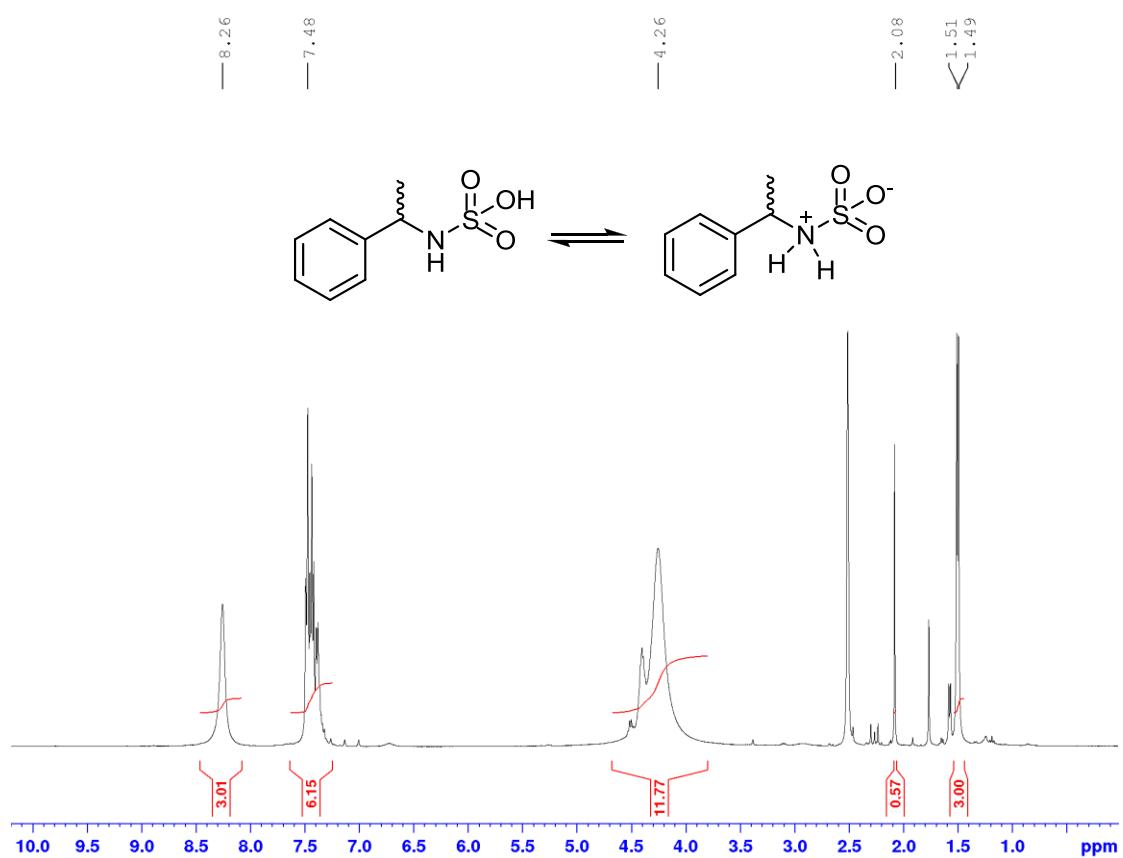


Figure S5. ¹H NMR (400 MHz, DMSO-*d*₆) spectrum of NSA 03.

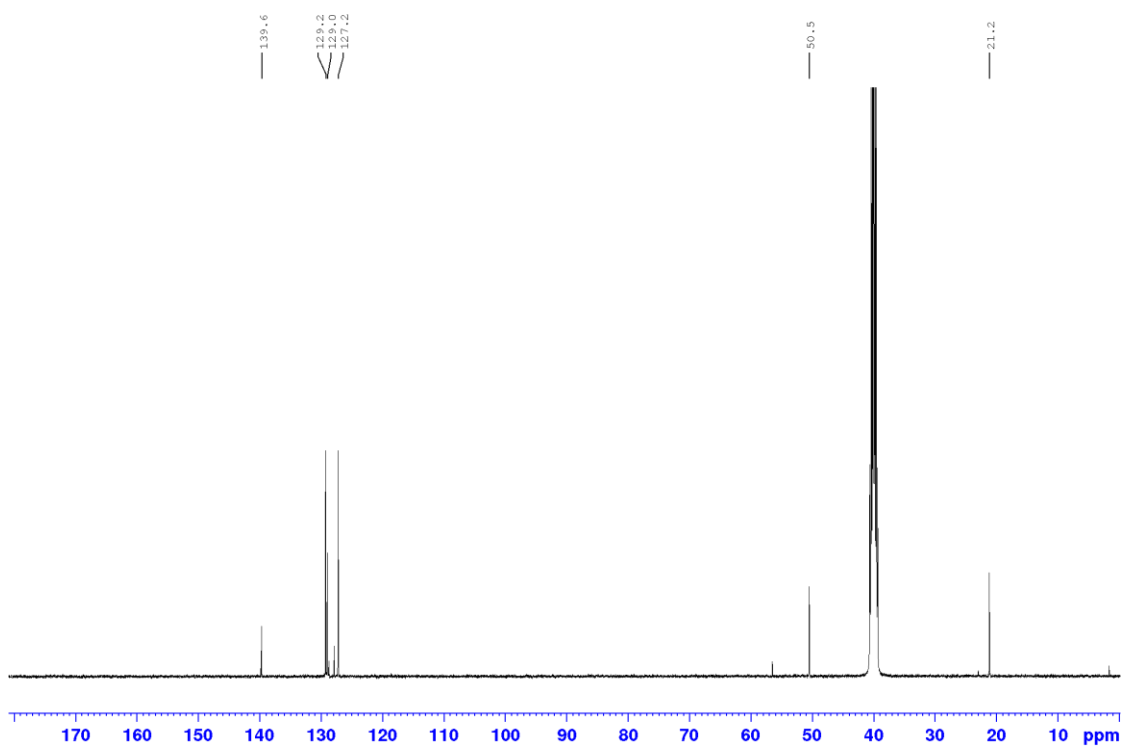


Figure S6. ^{13}C NMR (100 MHz, $\text{DMSO}-d_6$) spectrum of NSA 03.

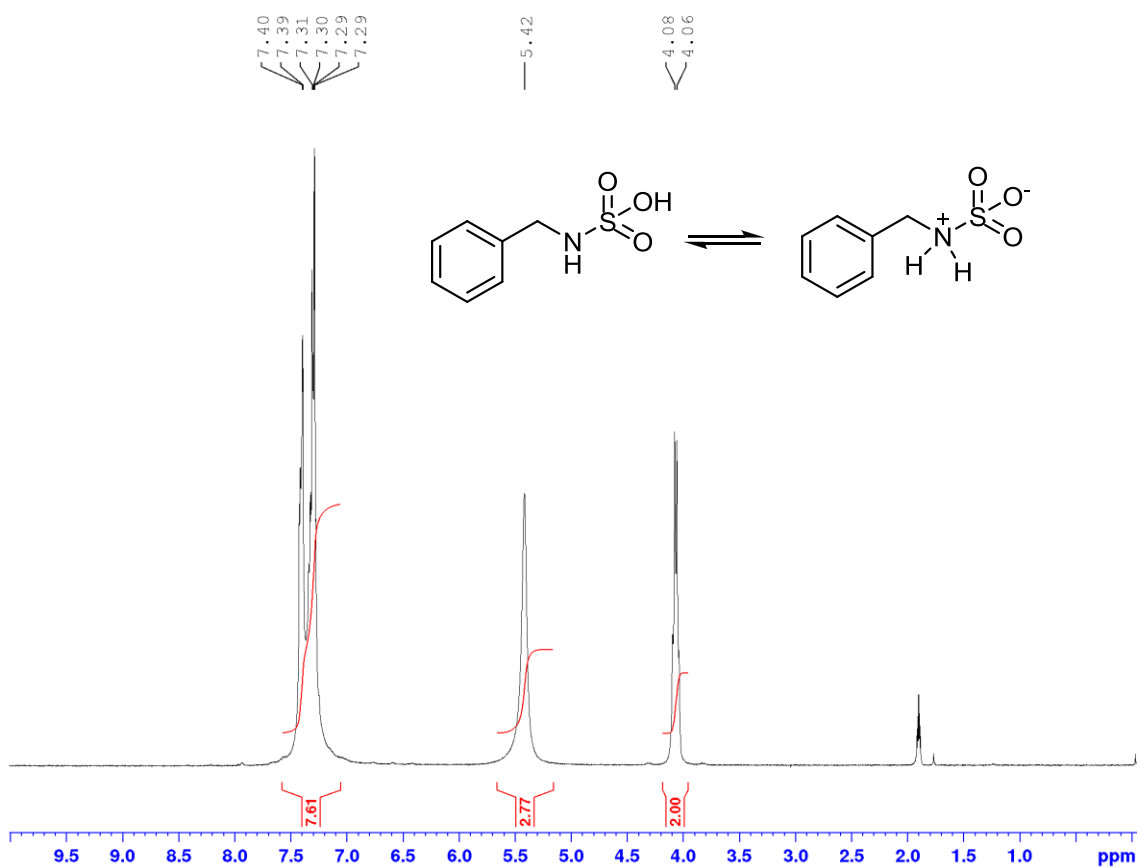


Figure S7. ^1H NMR (400 MHz, CD_3CN) spectrum of NSA 04.

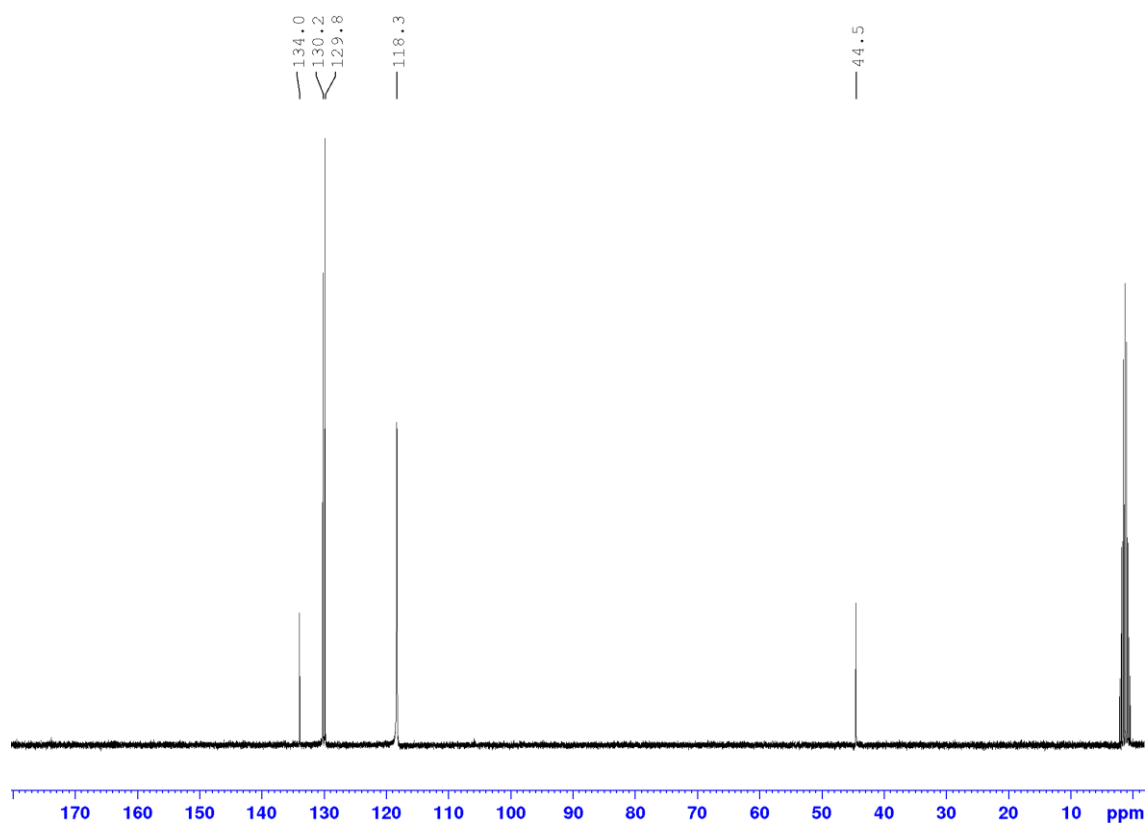


Figure S8. ^{13}C NMR (100 MHz, CD_3CN) spectrum of NSA 04.

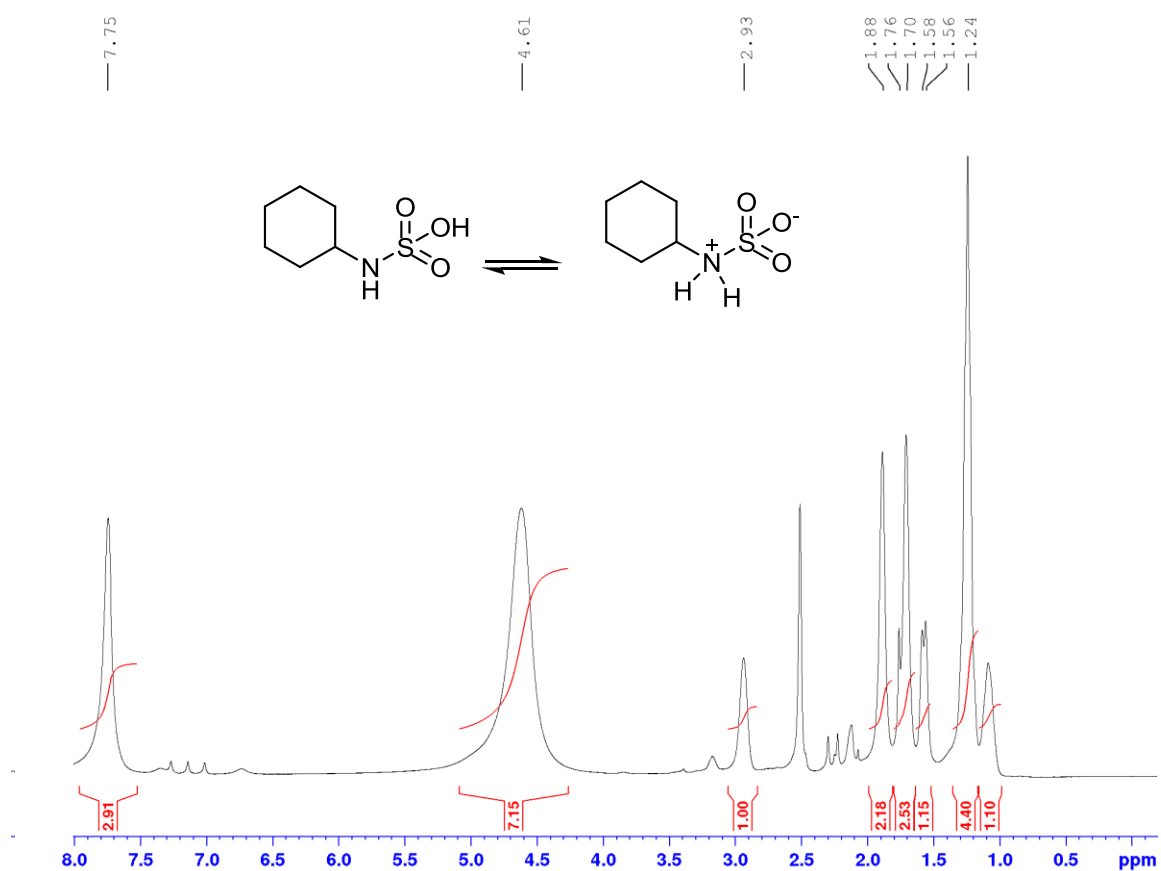


Figure S9. ^1H NMR (400 MHz, $\text{DMSO}-d_6$) spectrum of NSA 05.

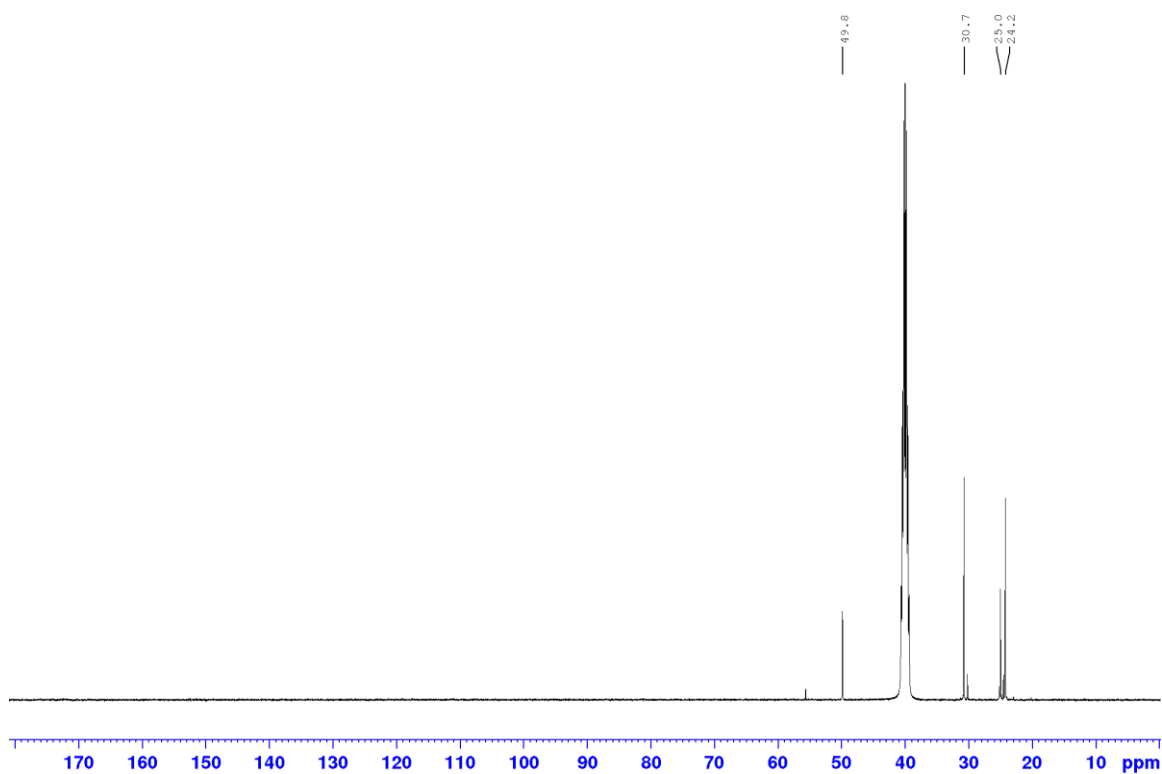


Figure S10. ¹³C NMR (100 MHz, DMSO-*d*₆) spectrum of NSA 05.

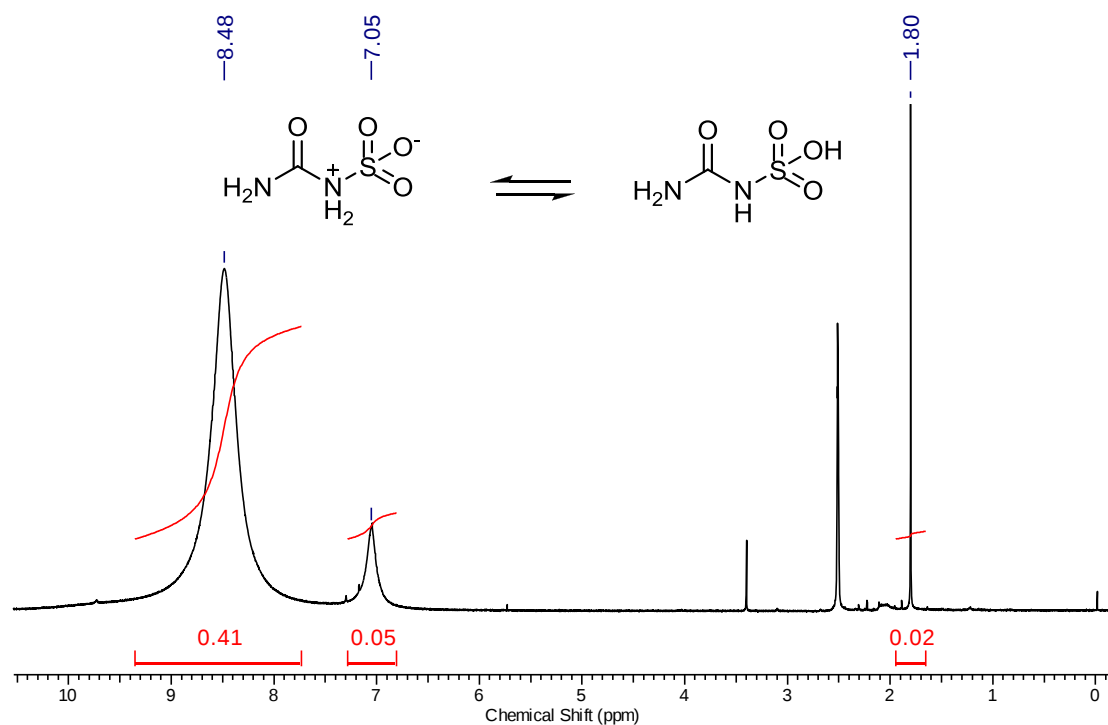


Figure S11. ¹H NMR (400 MHz, DMSO-*d*₆) spectrum of NSA 07.

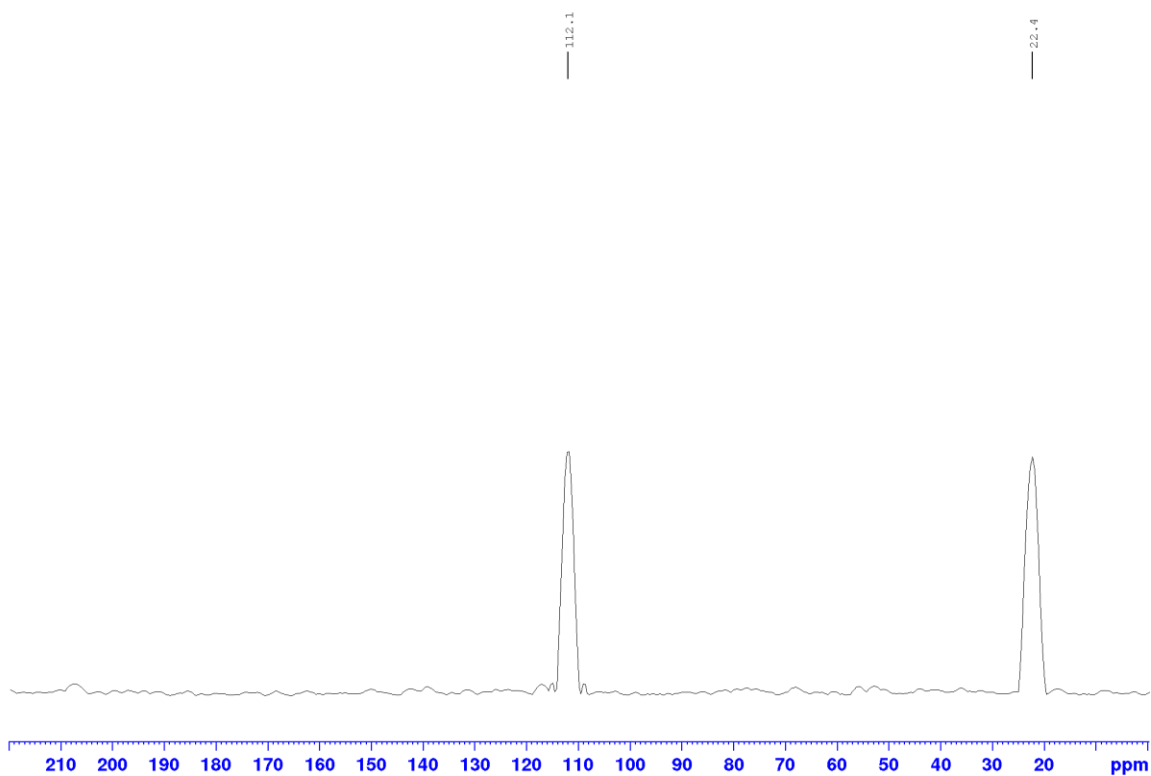


Figure S12. ^{15}N NMR (40 MHz, CD_3CN) spectrum of NSA 07.

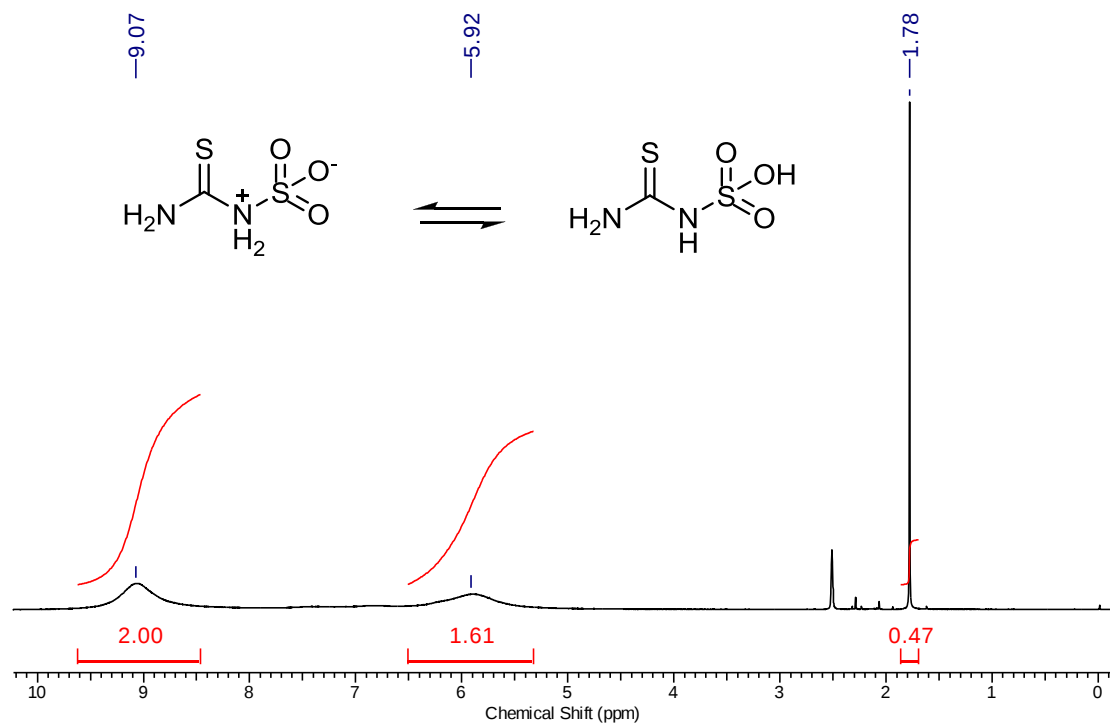


Figure S13. ^1H NMR (400 MHz, $\text{DMSO}-d_6$) spectrum of NSA 08.

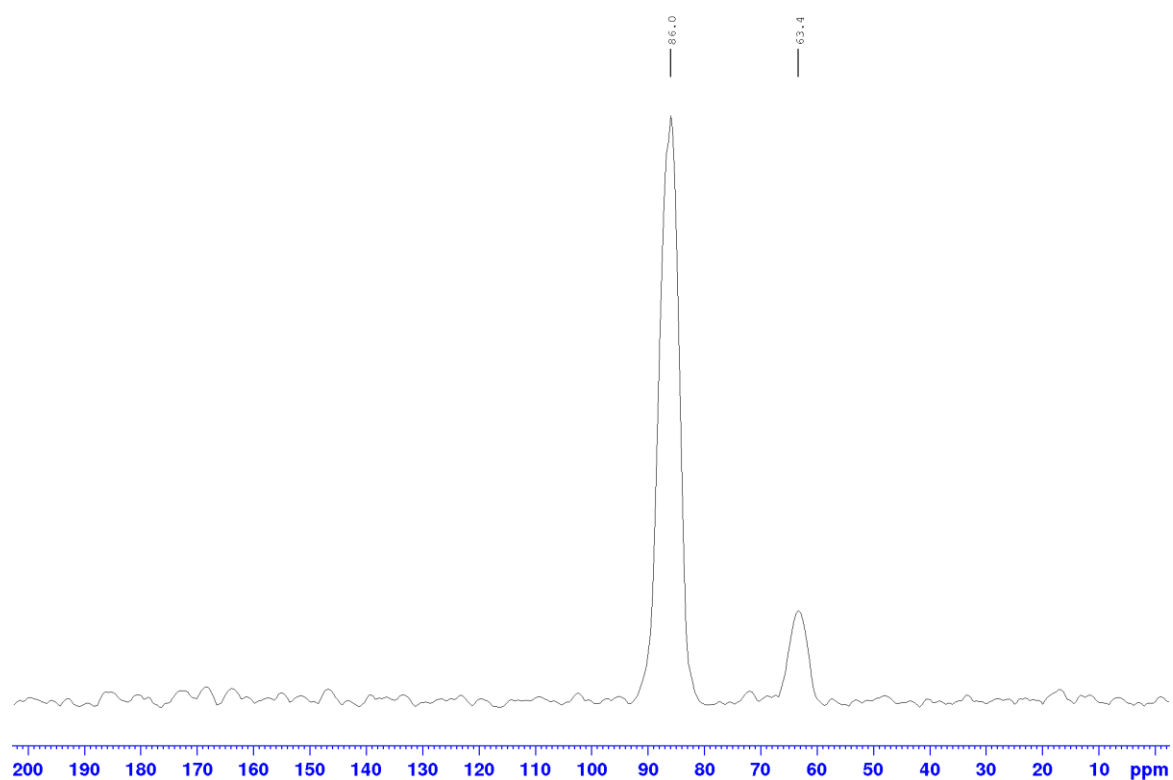


Figure S14. ^{15}N NMR (40 MHz, CD_3CN) spectrum of NSA 08.

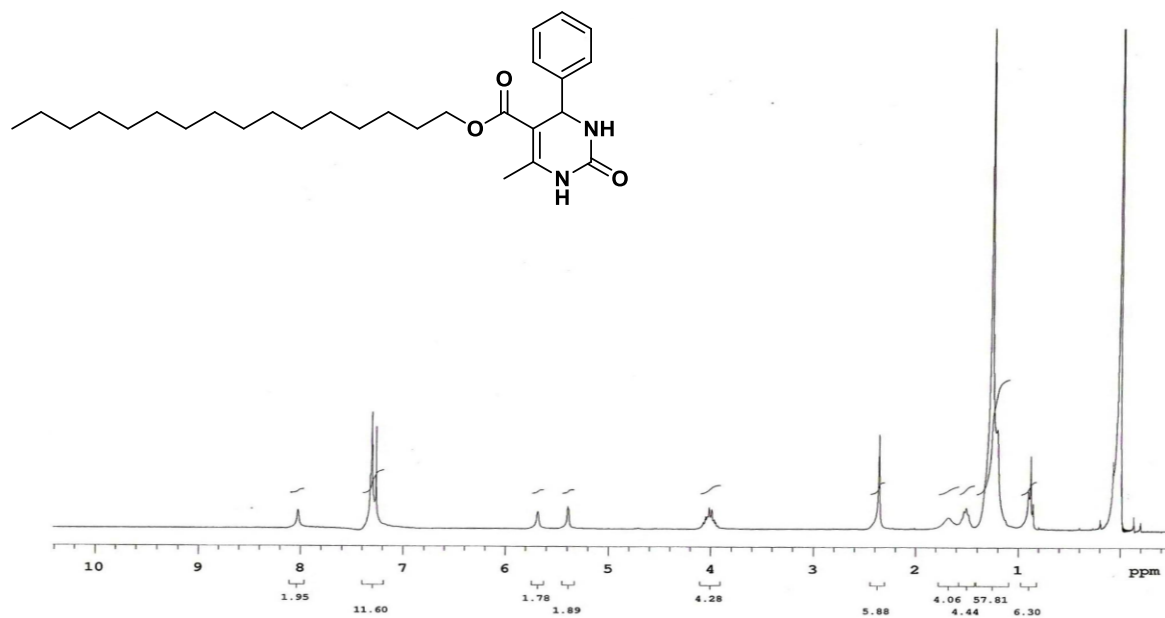


Figure S15. ^1H NMR (300 MHz, CDCl_3) spectrum of **1b**.

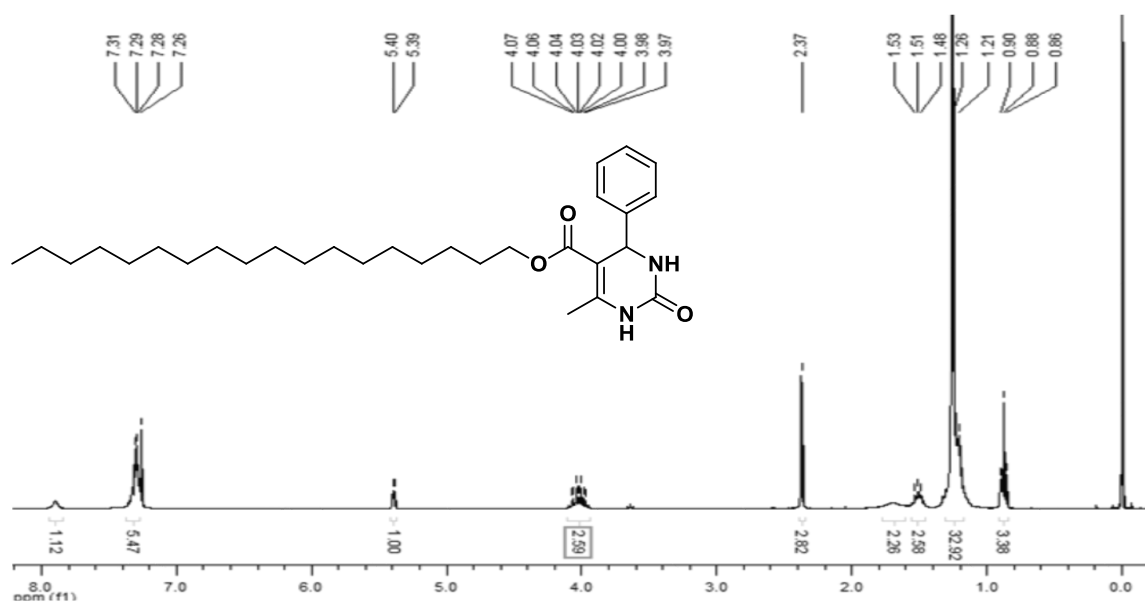


Figure S16. ¹H NMR (300 MHz, CDCl₃) spectrum of **1c**.

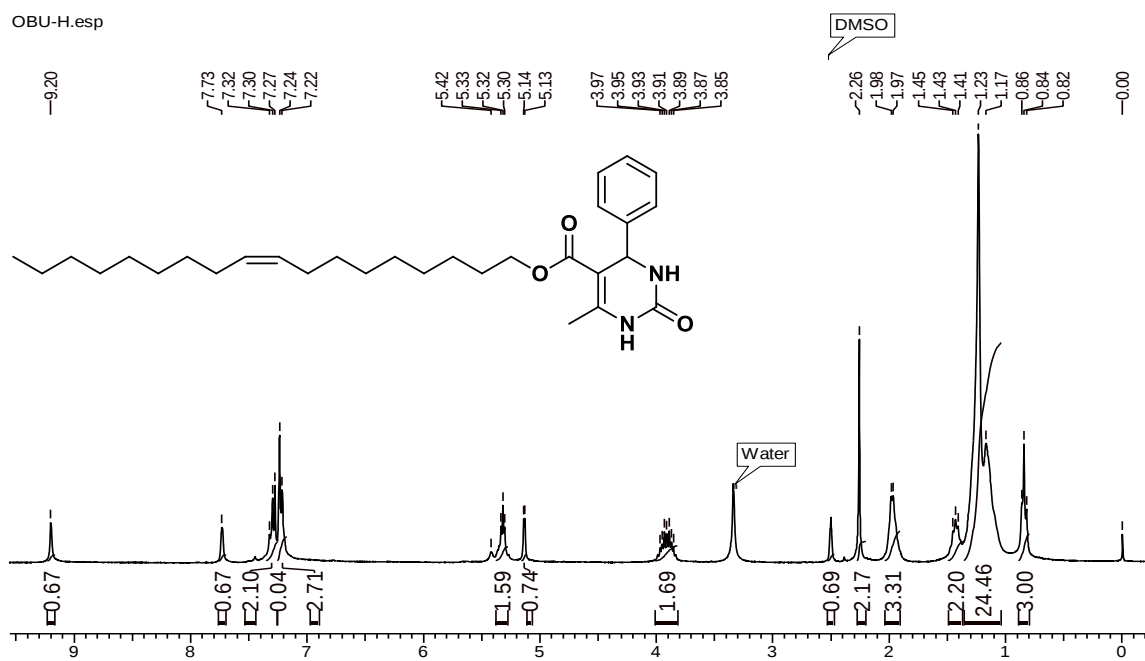


Figure S17. ¹H NMR (300 MHz, DMSO-*d*₆) spectrum of **1d**.

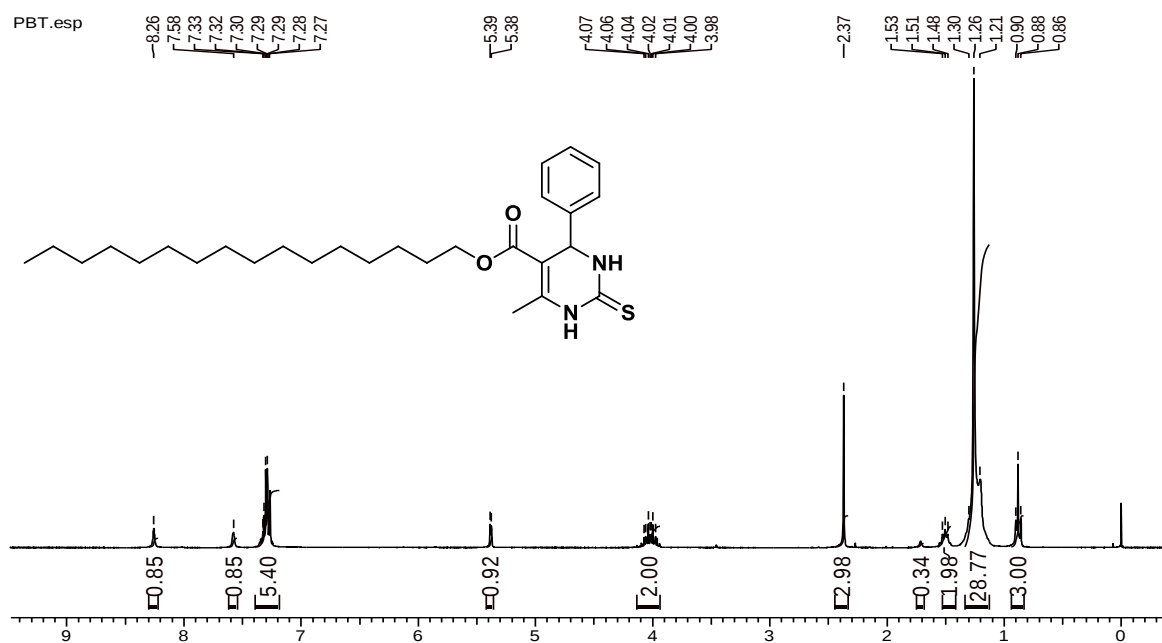


Figure S18. ^1H NMR (300 MHz, CDCl_3) spectrum of **4b**.

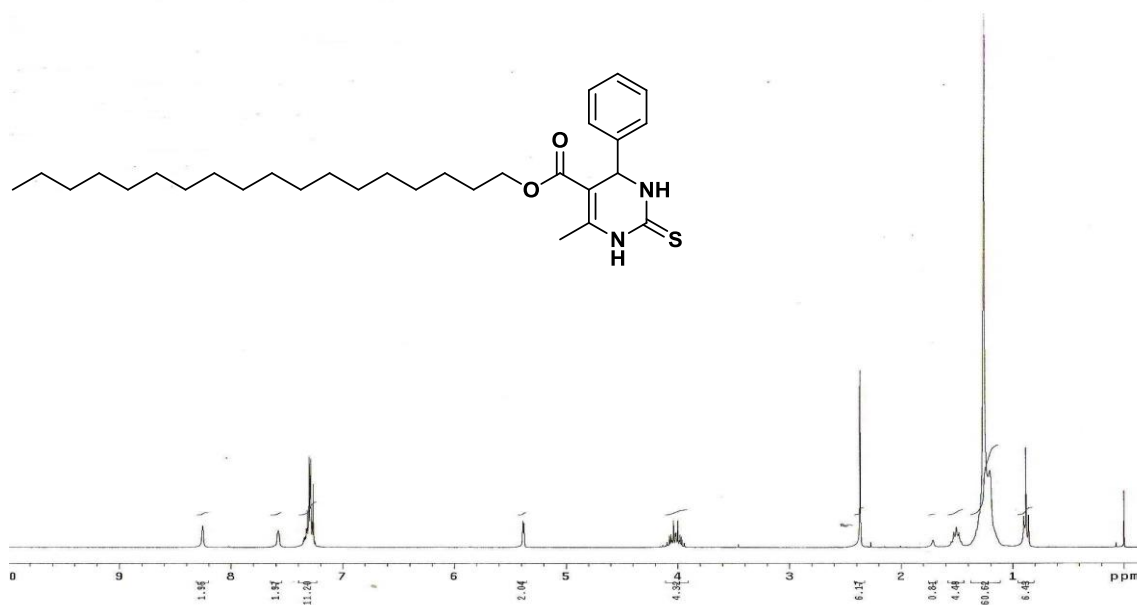


Figure S19. ^1H NMR (300 MHz, CDCl_3) spectrum of **4c**.

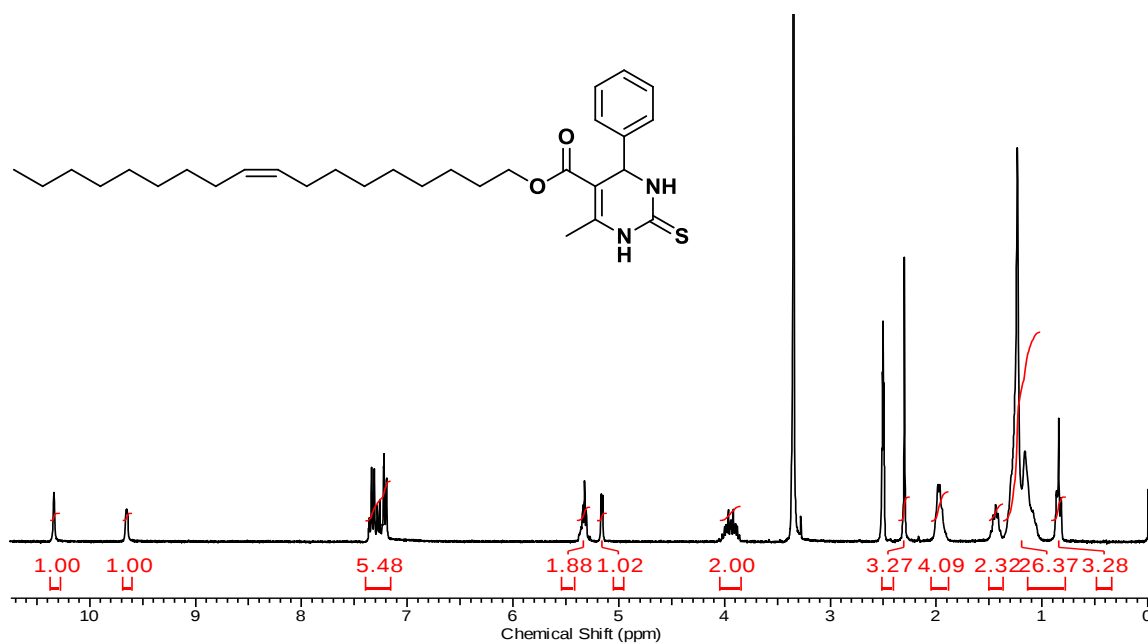


Figure S20. ¹H NMR (300 MHz, DMSO-*d*₆) spectrum of **4d**.

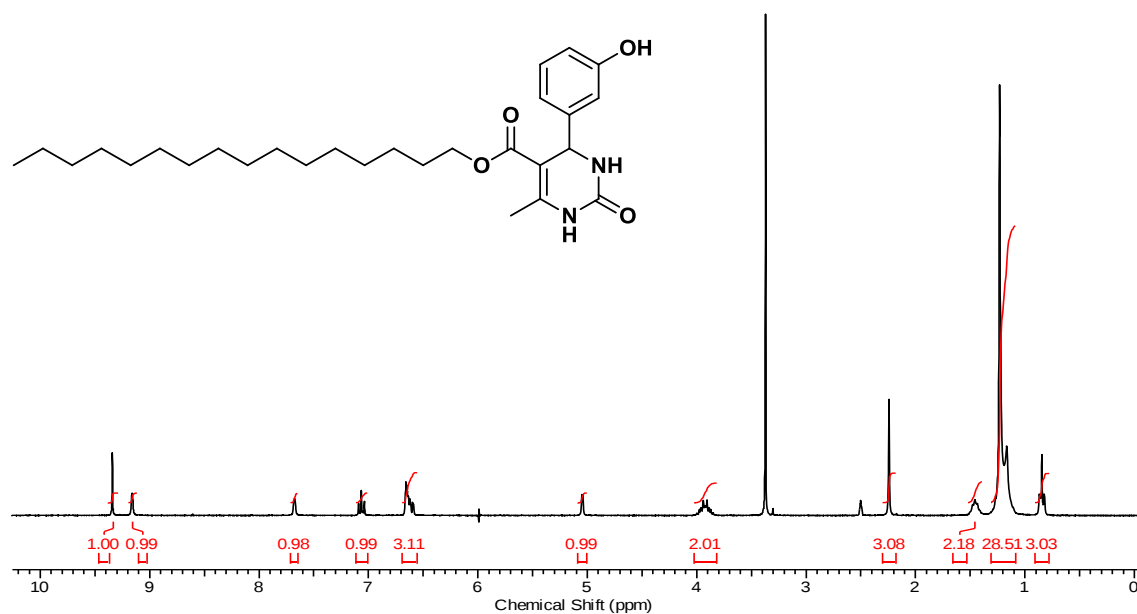


Figure S21. ¹H NMR (300 MHz, DMSO-*d*₆) spectrum of **2b**.

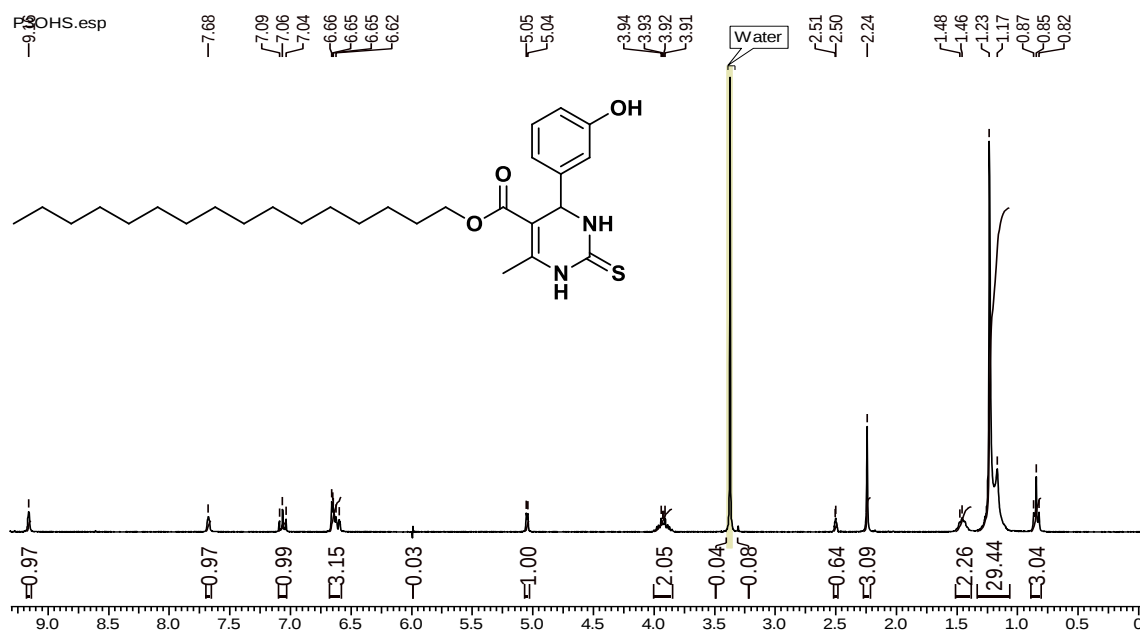


Figure S22. ¹H NMR (300 MHz, DMSO-*d*₆) spectrum of **5b**.

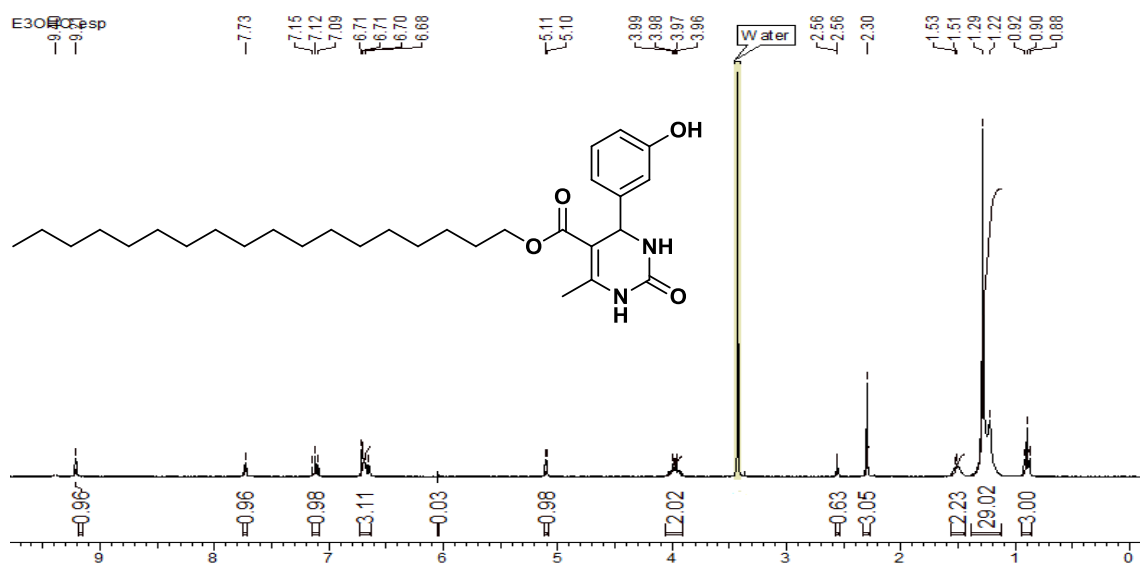


Figure S23. ¹H NMR (300 MHz, DMSO-*d*₆) spectrum of **2c**.

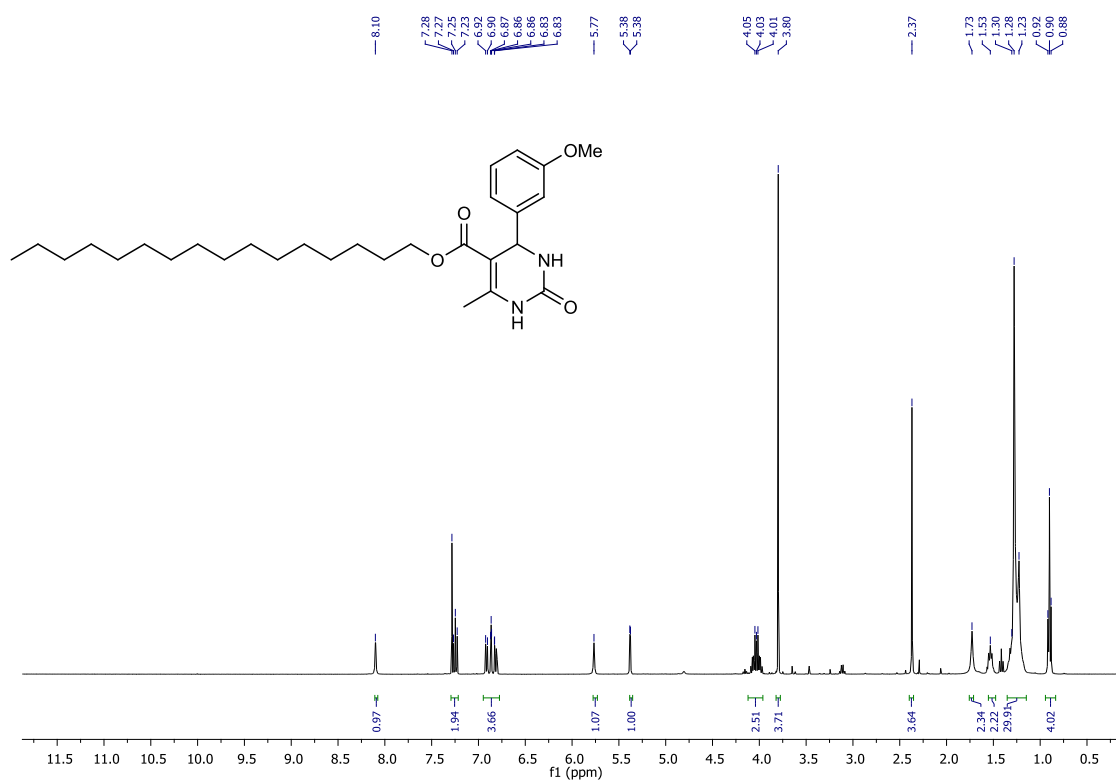


Figure S24. ¹H NMR (400 MHz, CDCl₃) spectrum of 3b.

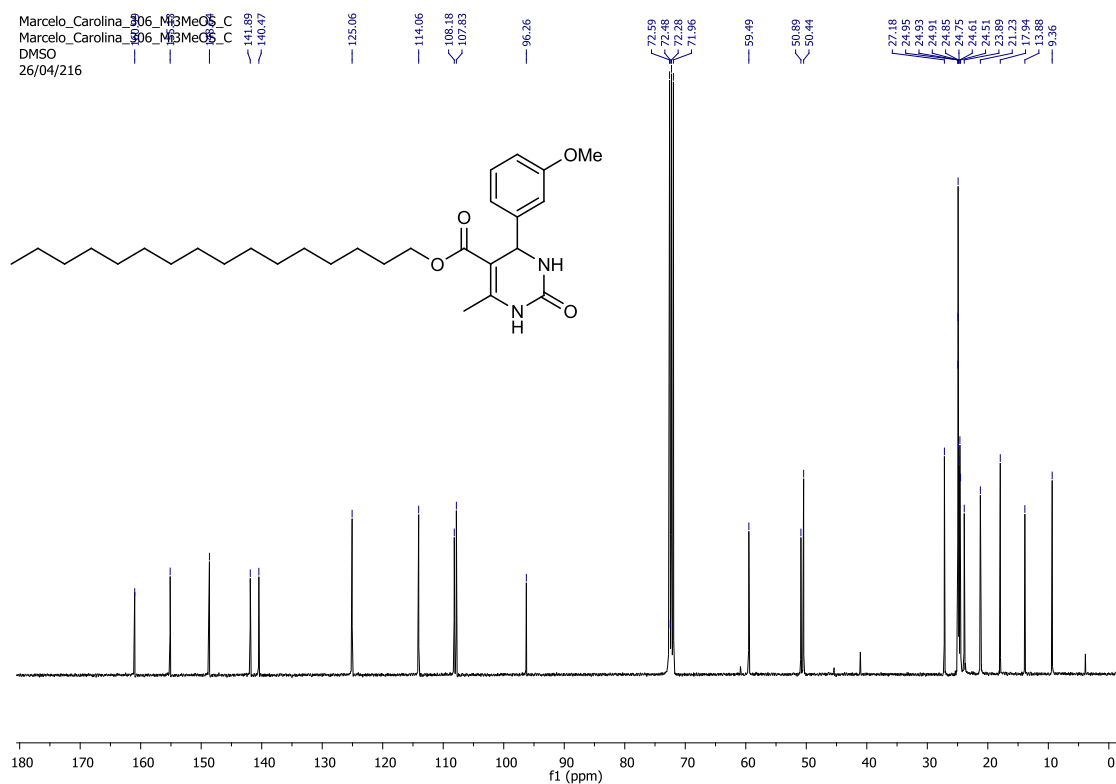


Figure S25. ¹³C NMR (100 MHz, CDCl₃) spectrum of 3b.

E3MeOO - H

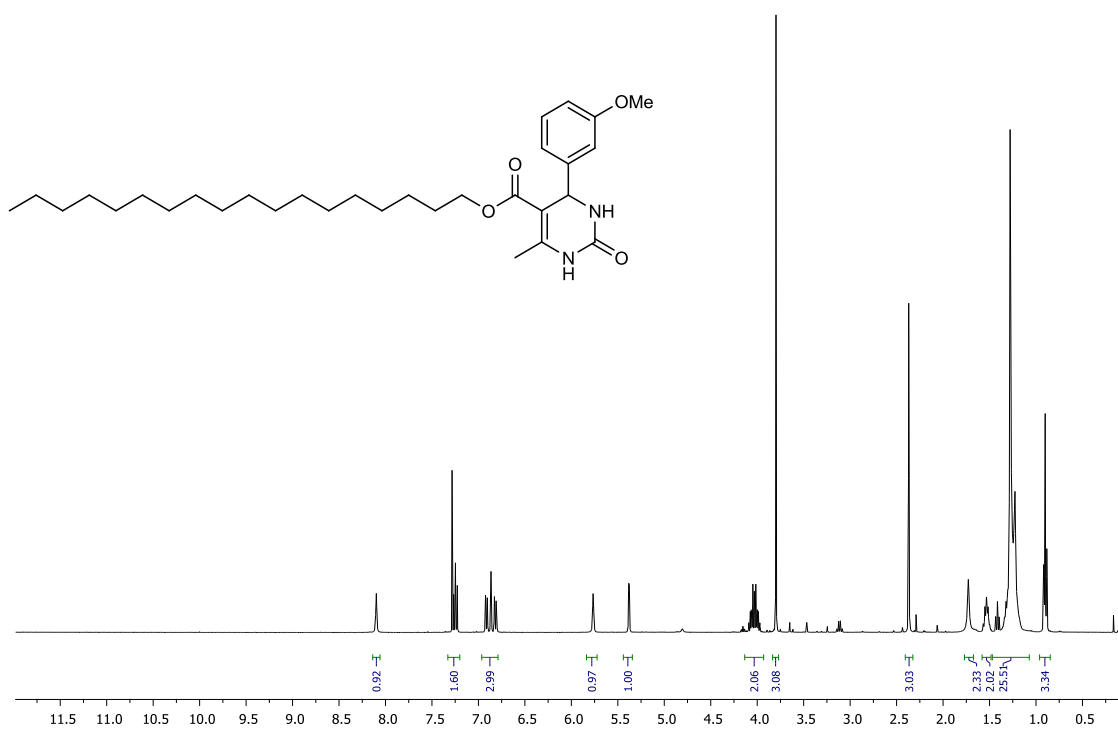


Figure S26. ¹H NMR (400 MHz, CDCl₃) spectrum of 3c.

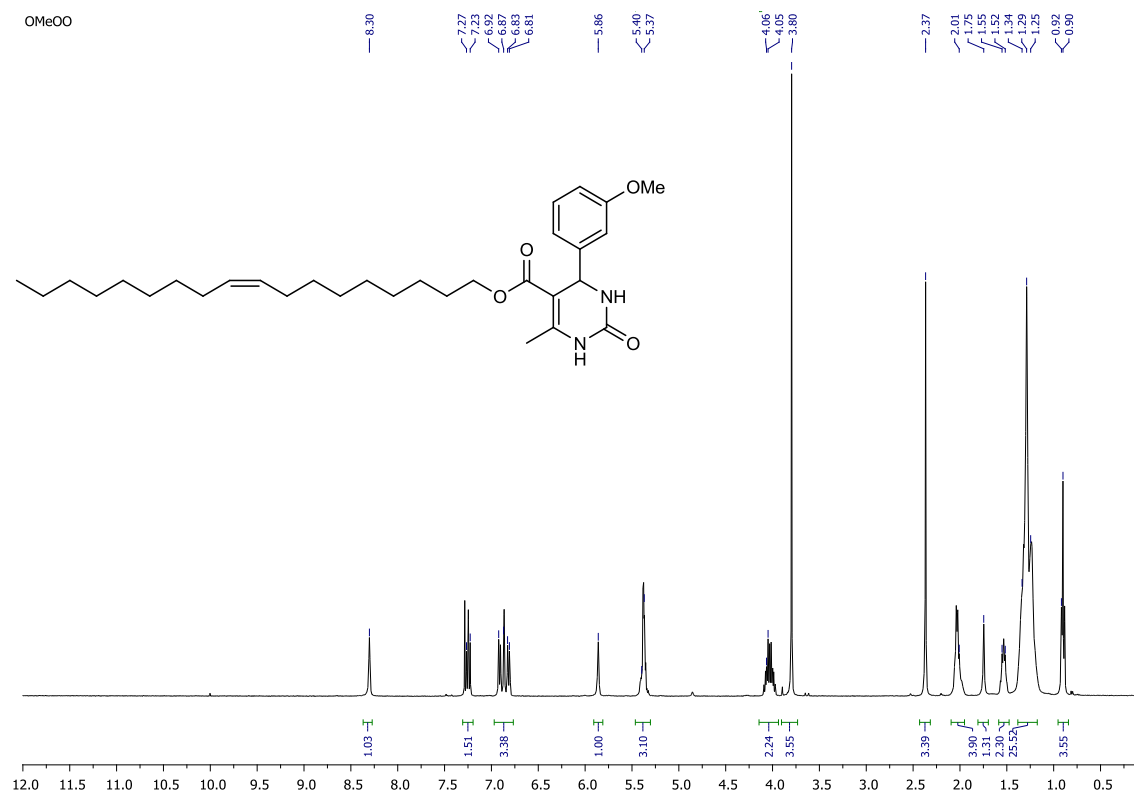


Figure S27. ¹H NMR (400 MHz, CDCl₃) spectrum of 3d.

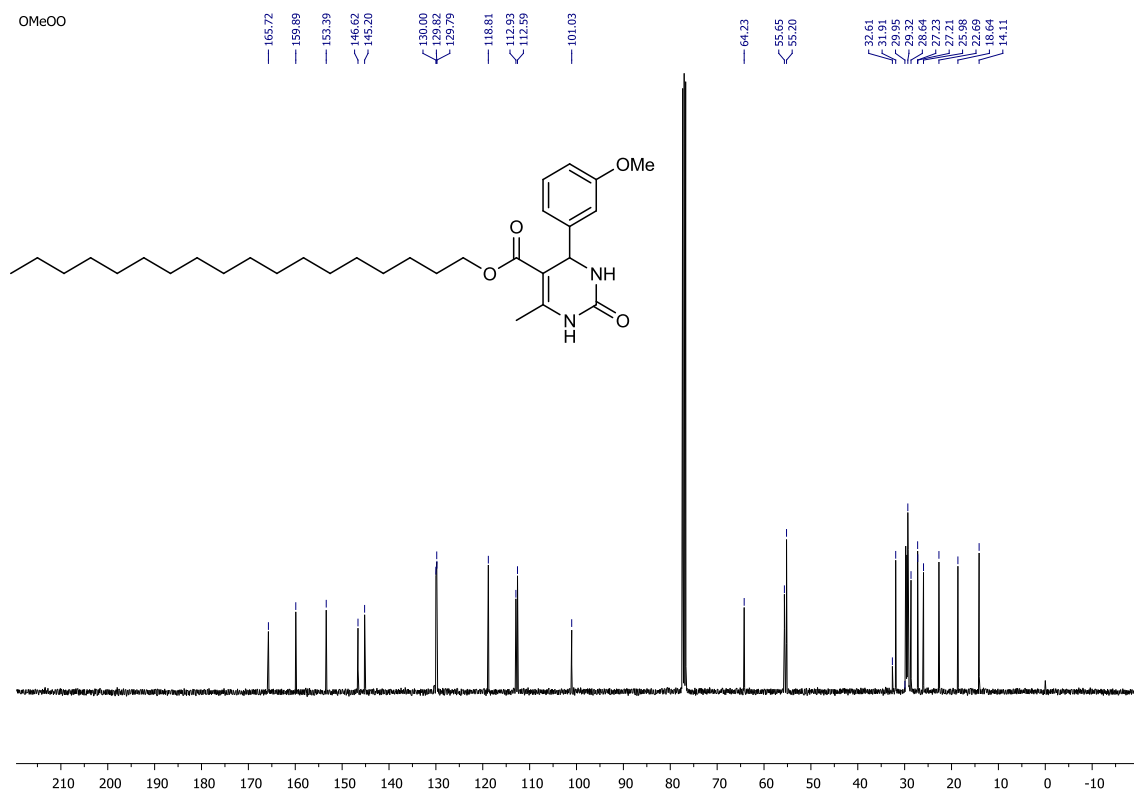


Figure S28. ¹³C NMR (100 MHz, CDCl₃) spectrum of 3d.

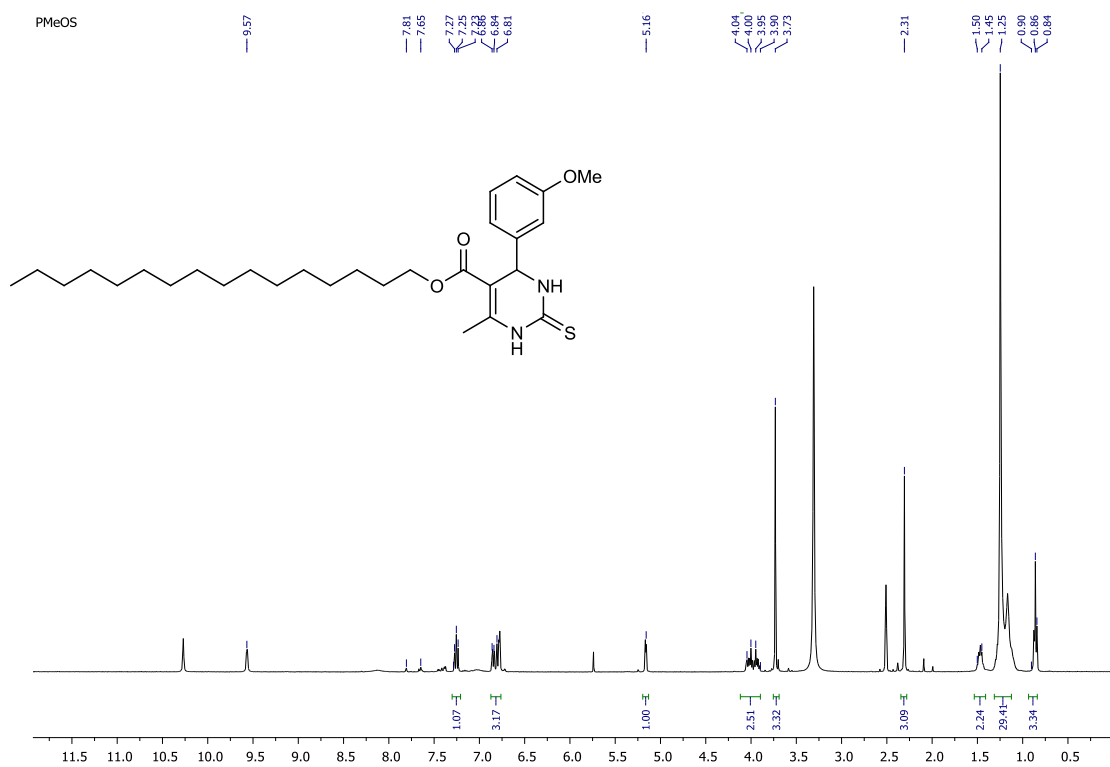


Figure S29. ¹H NMR (400 MHz, CDCl₃) spectrum of 6b.

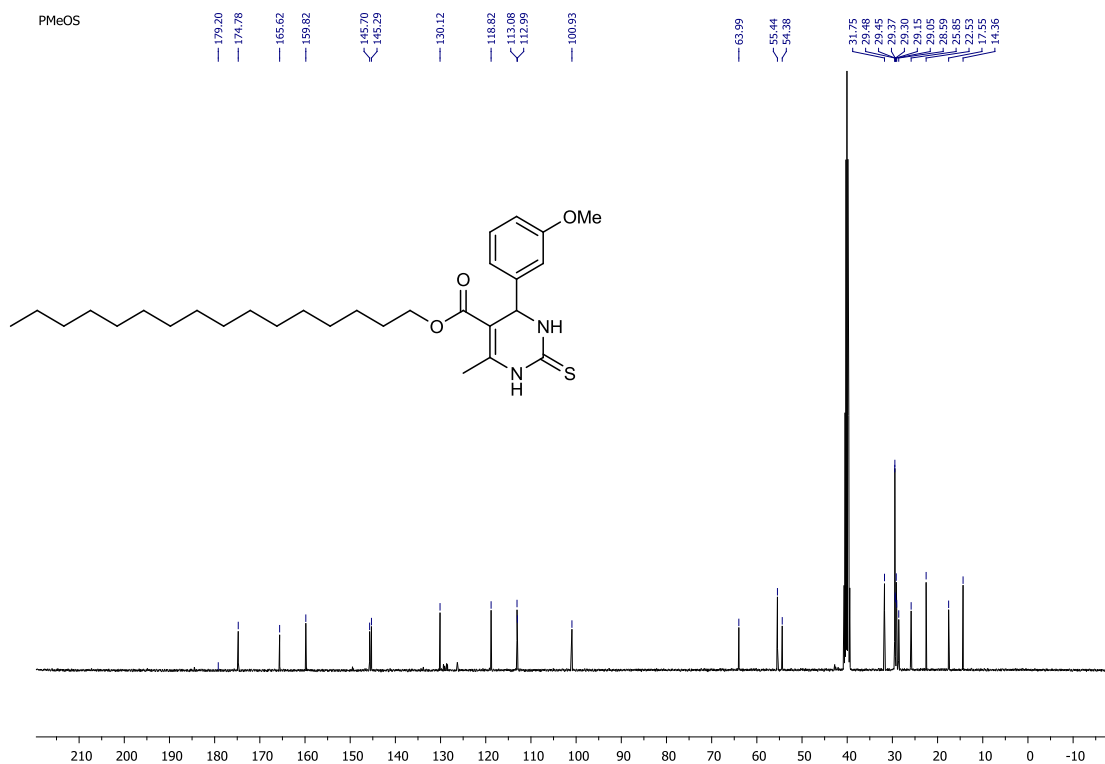


Figure S30. ^{13}C NMR (100 MHz, CDCl_3) spectrum of 6b.

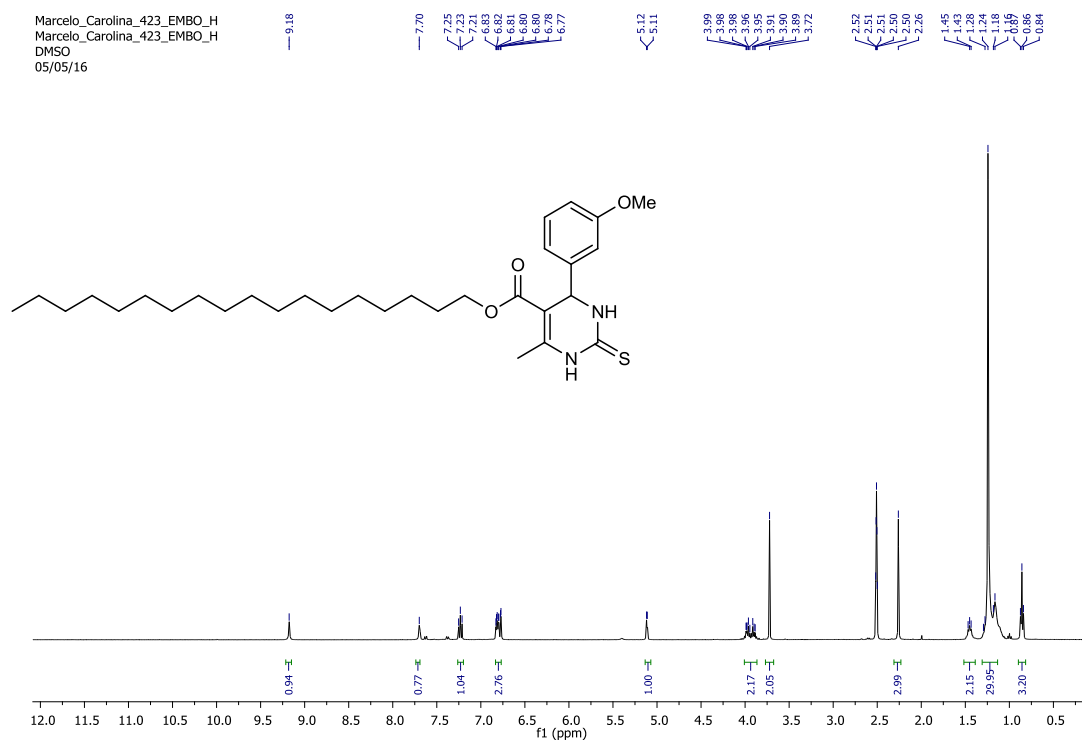


Figure S31. ^1H NMR (400 MHz, CDCl_3) spectrum of 6c.

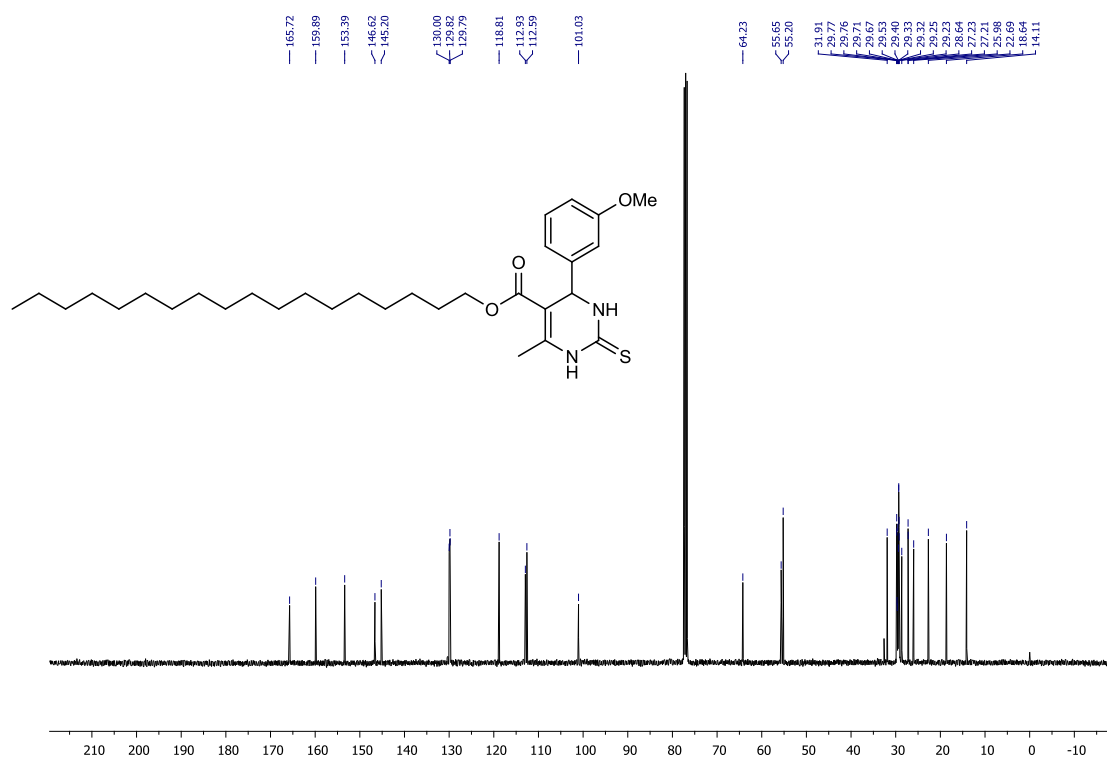


Figure S32. ¹³C NMR (100 MHz, CDCl₃) spectrum of **6c**.