

Supporting Information

Synthesis and In Vitro Antitumor Evaluation of Novel 3,4-Dihydropyridinone–Vorinostat Hybrids against Gastric and Breast Cancer Cell Lines

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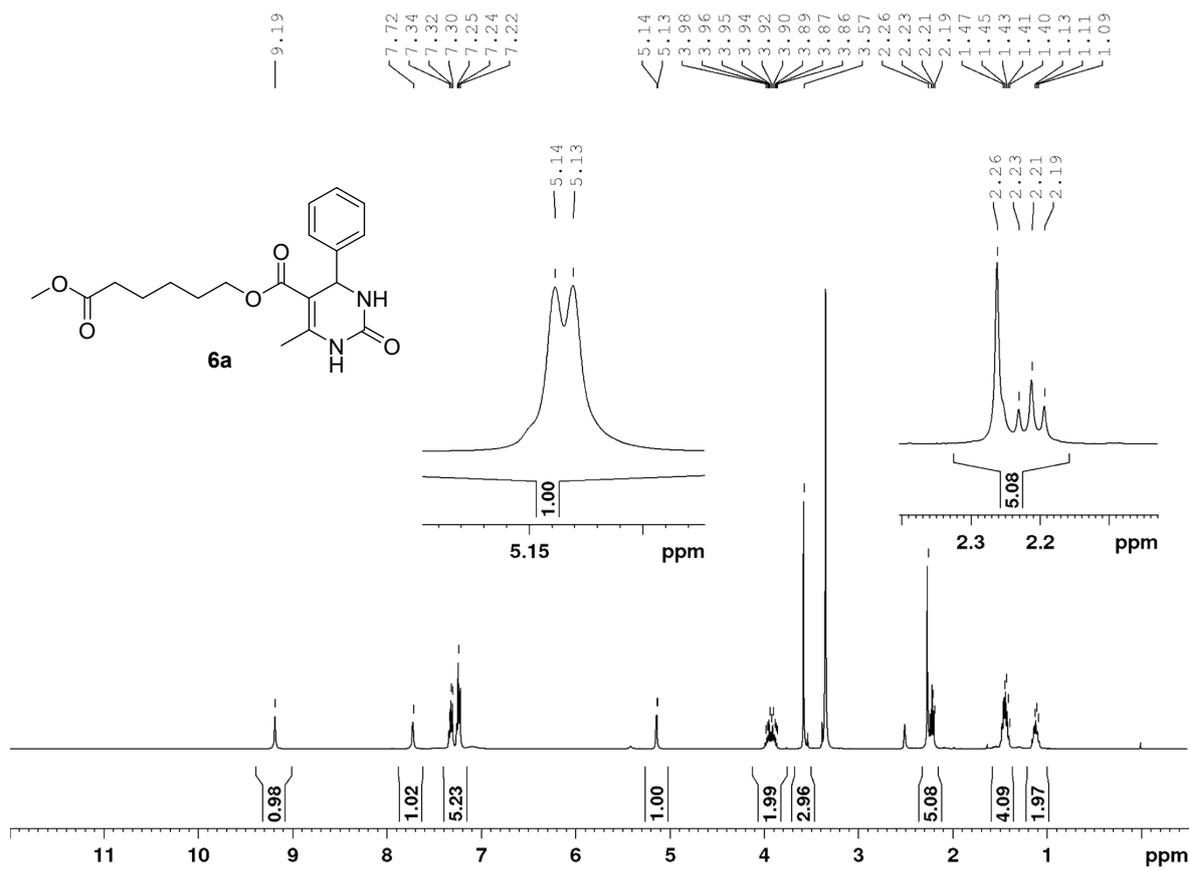


Figure S1. $^1\text{H NMR}$ (400 MHz, DMSO-d_6) spectrum of DHPM **6a**.

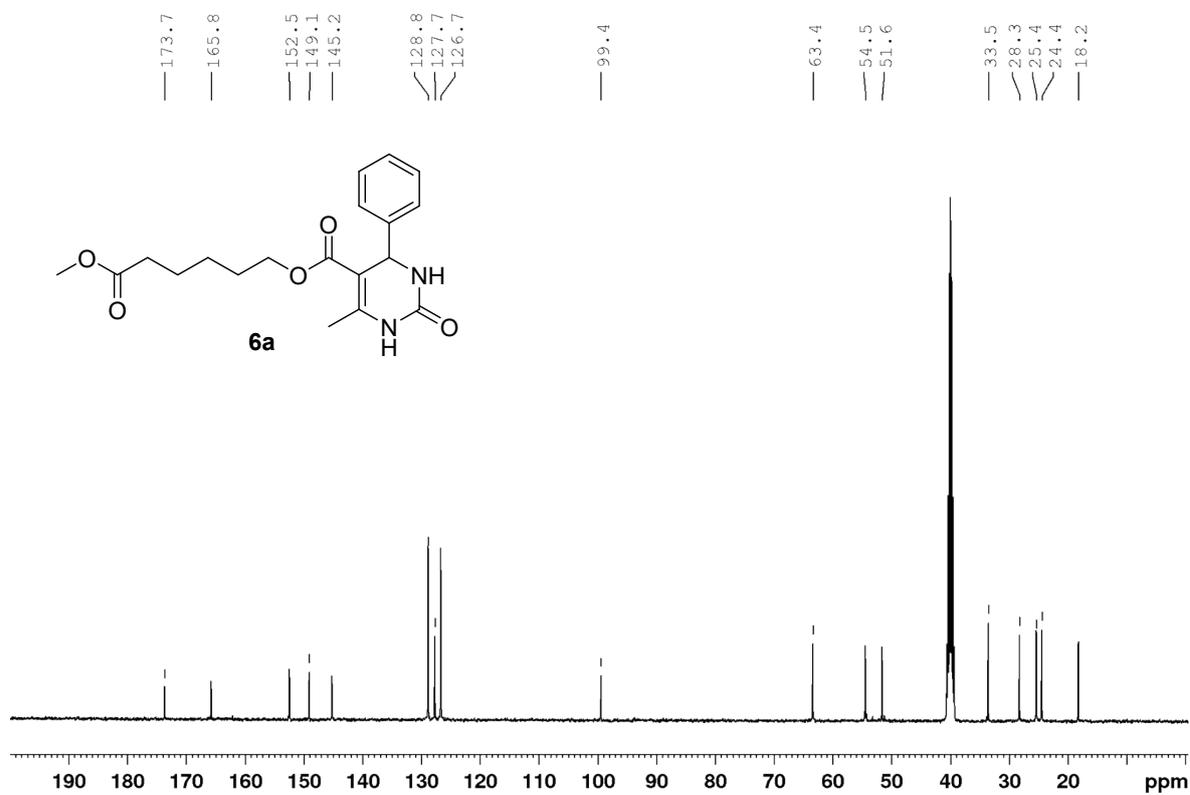


Figure S2. $^{13}\text{C NMR}$ (100 MHz, DMSO-d_6) spectrum of DHPM **6a**.

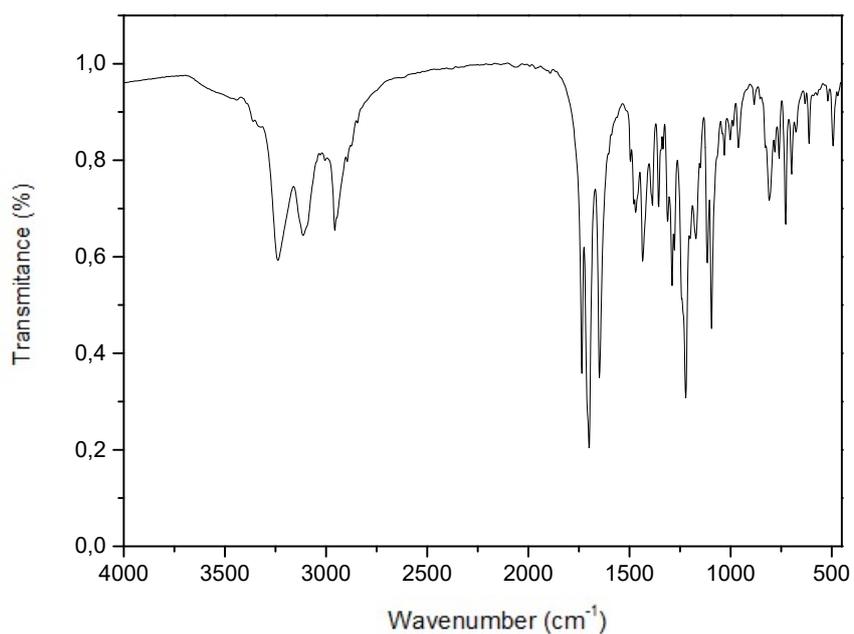


Figure S3. FT-IR (4000-400 cm^{-1} , KBr) spectrum of DHPM **6a**.

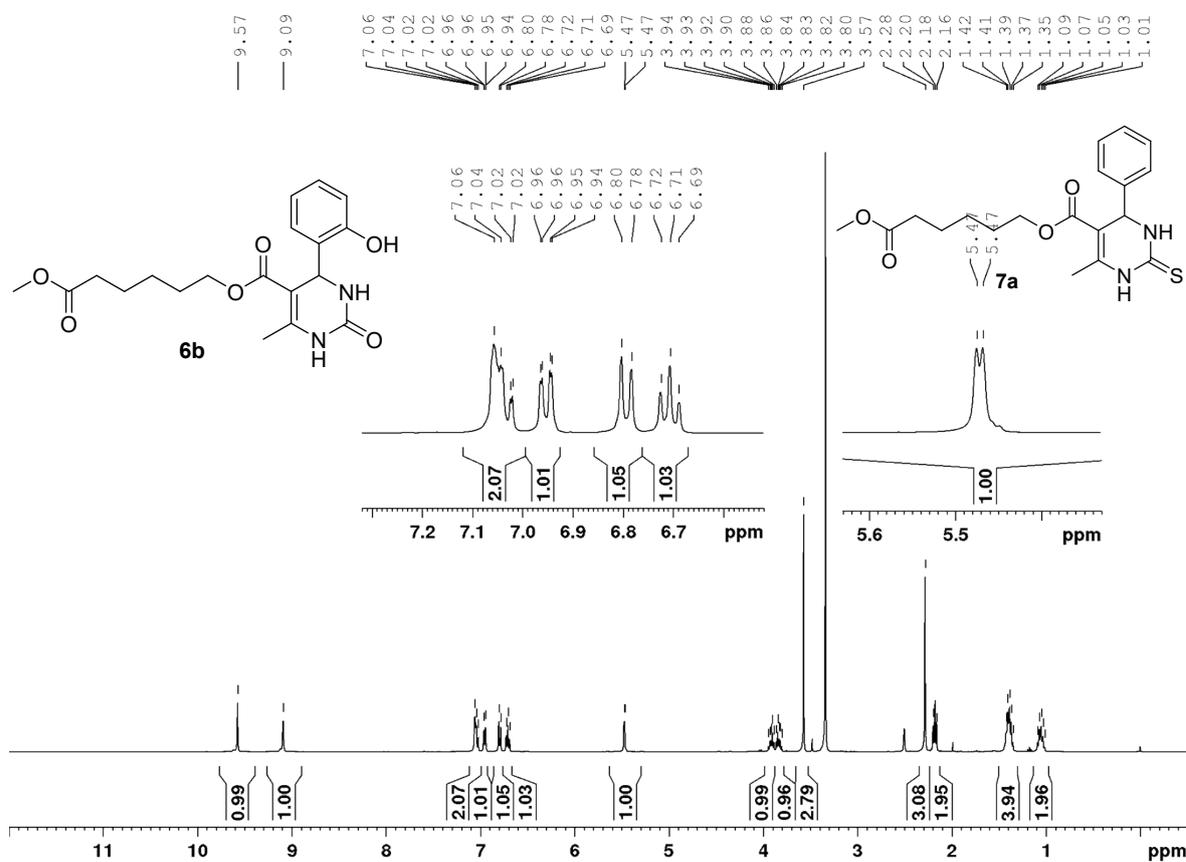


Figure S4. ^1H NMR (400 MHz, DMSO- d_6) spectrum of DHPM **6b**.

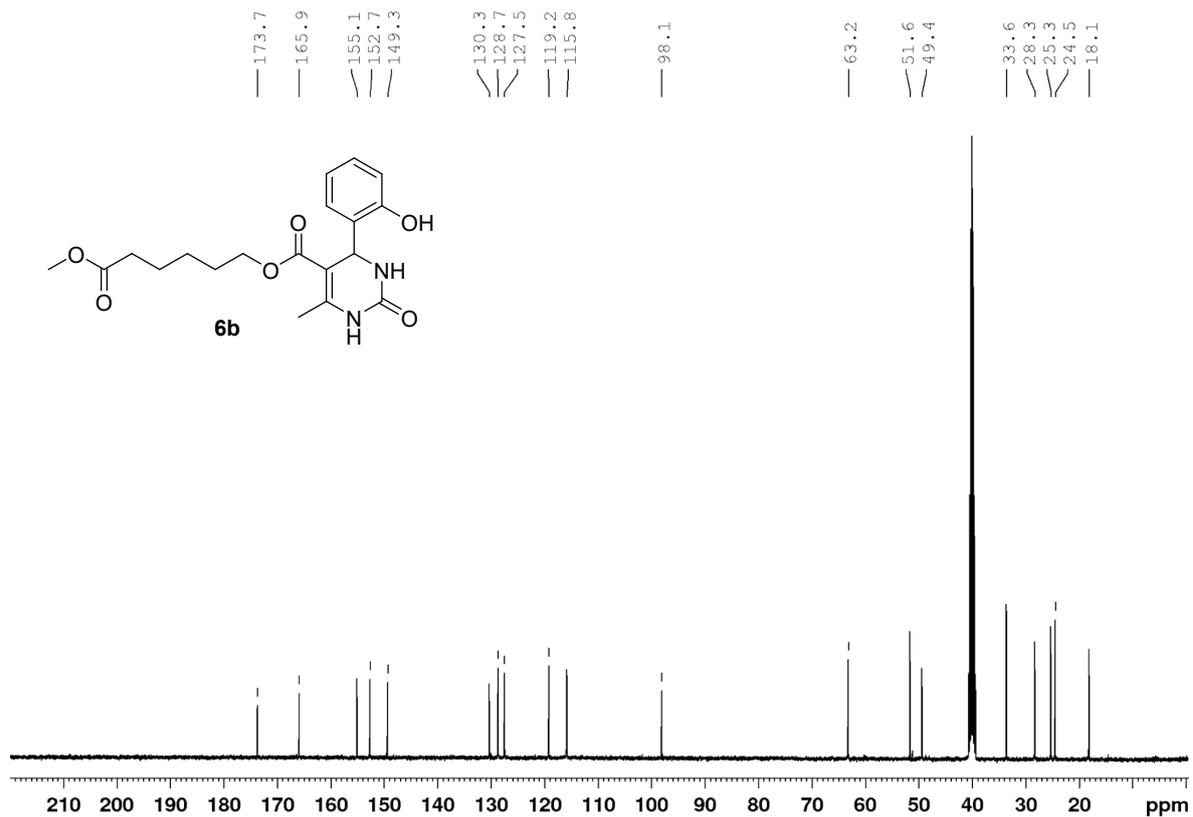


Figure S5. ^{13}C NMR (100 MHz, DMSO- d_6) spectrum of DHPM **6b**.

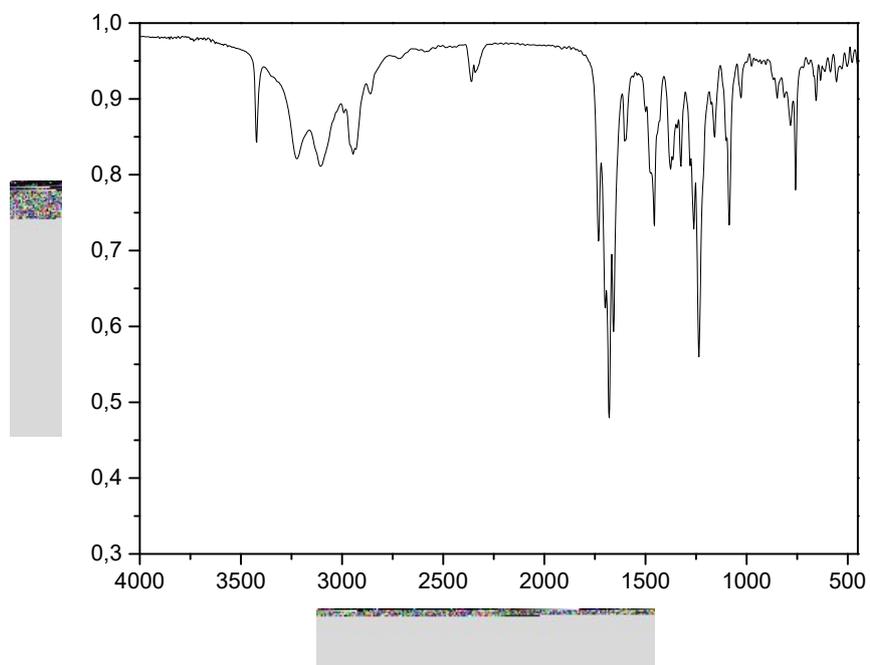


Figure S6. FT-IR (4000-400 cm^{-1} , KBr) spectrum of DHPM **6b**.

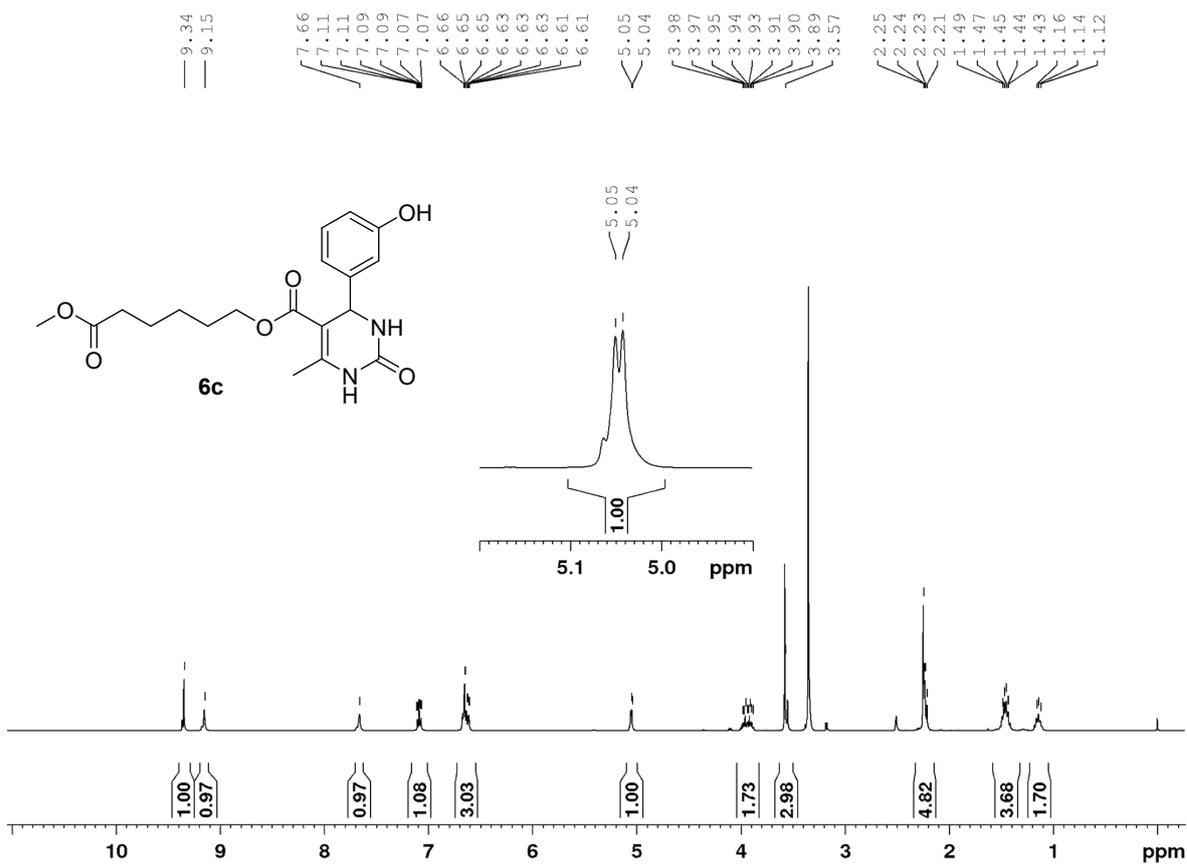


Figure S7. ^1H NMR (400 MHz, DMSO-d_6) spectrum of DHPM **6c**.

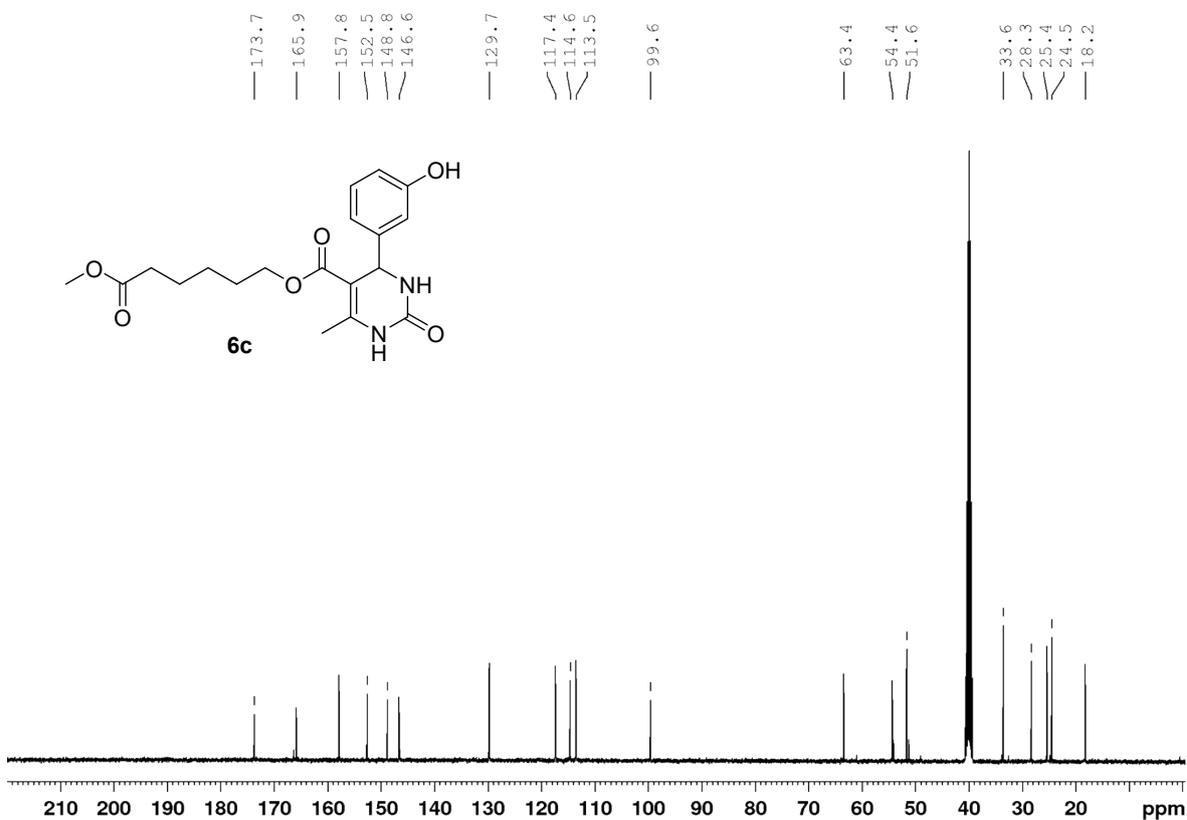


Figure S8. ^{13}C NMR (100 MHz, DMSO-d_6) spectrum of DHPM **6c**.

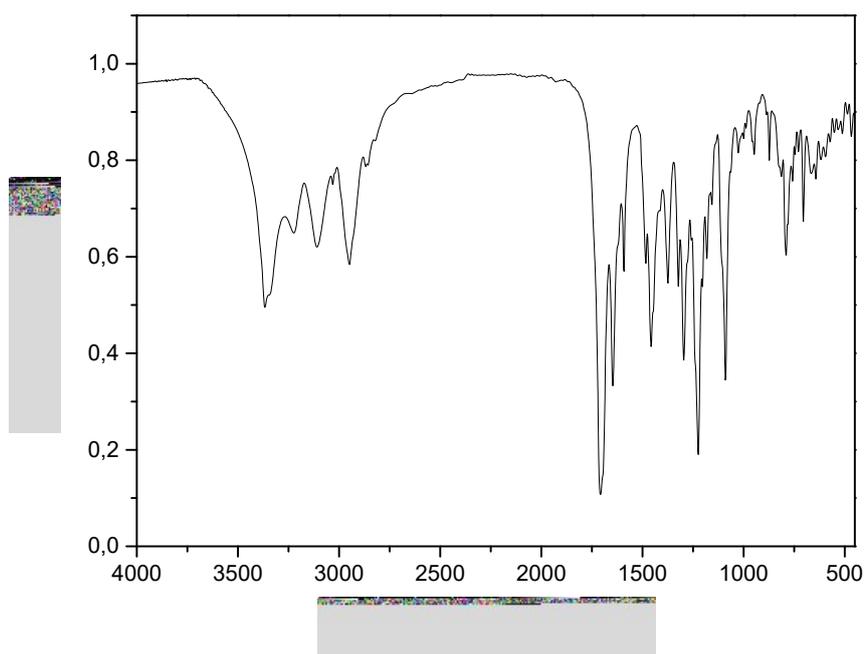


Figure S9. FT-IR (4000-400 cm^{-1} , KBr) spectrum of DHPM **6c**.

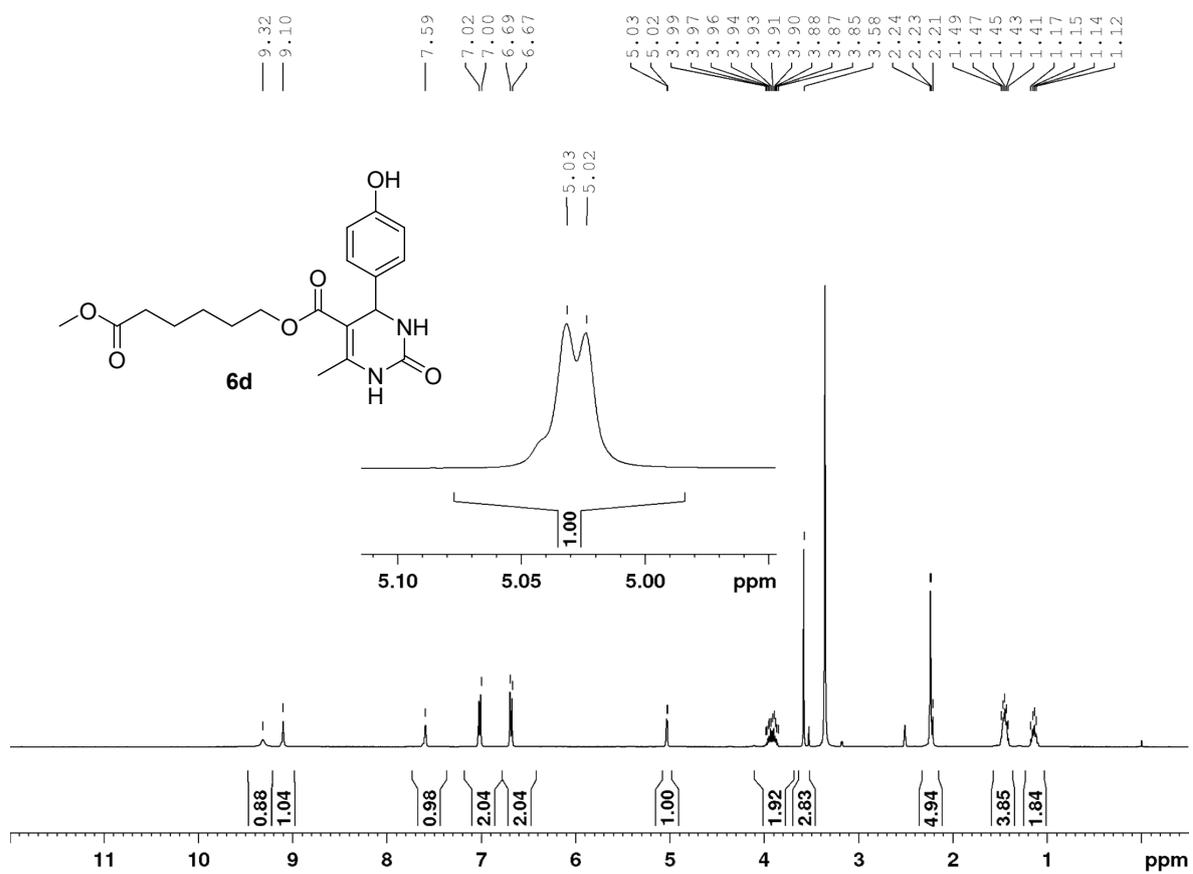


Figure S10. ^1H NMR (400 MHz, DMSO-d_6) spectrum of DHPM **6d**.

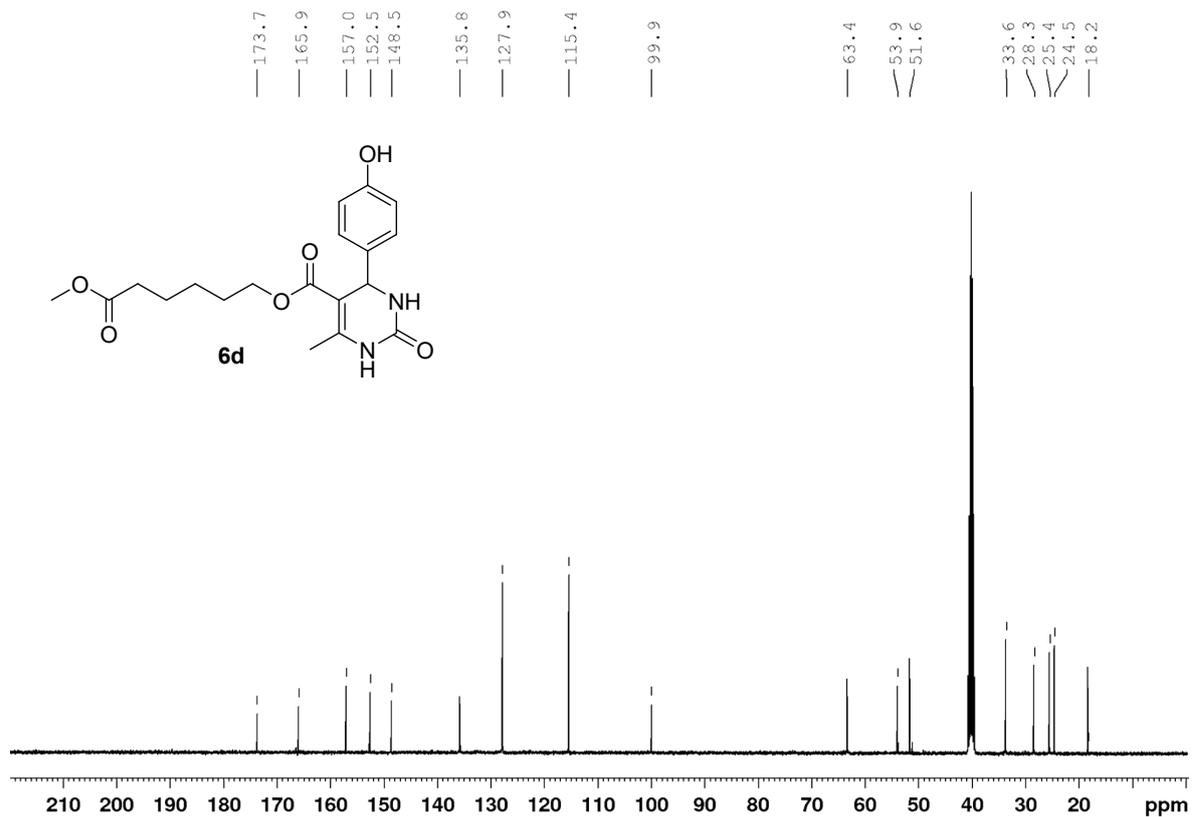


Figure S11. ^{13}C NMR (100 MHz, DMSO-d_6) spectrum of DHPM **6d**.

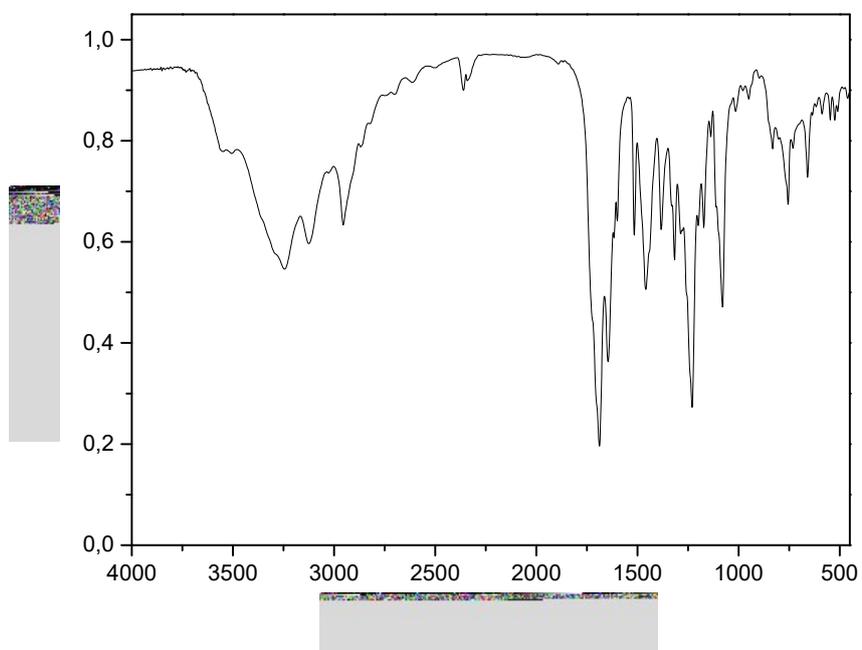


Figure S12. FT-IR (4000-400 cm^{-1} , KBr) spectrum of DHPM **6d**.

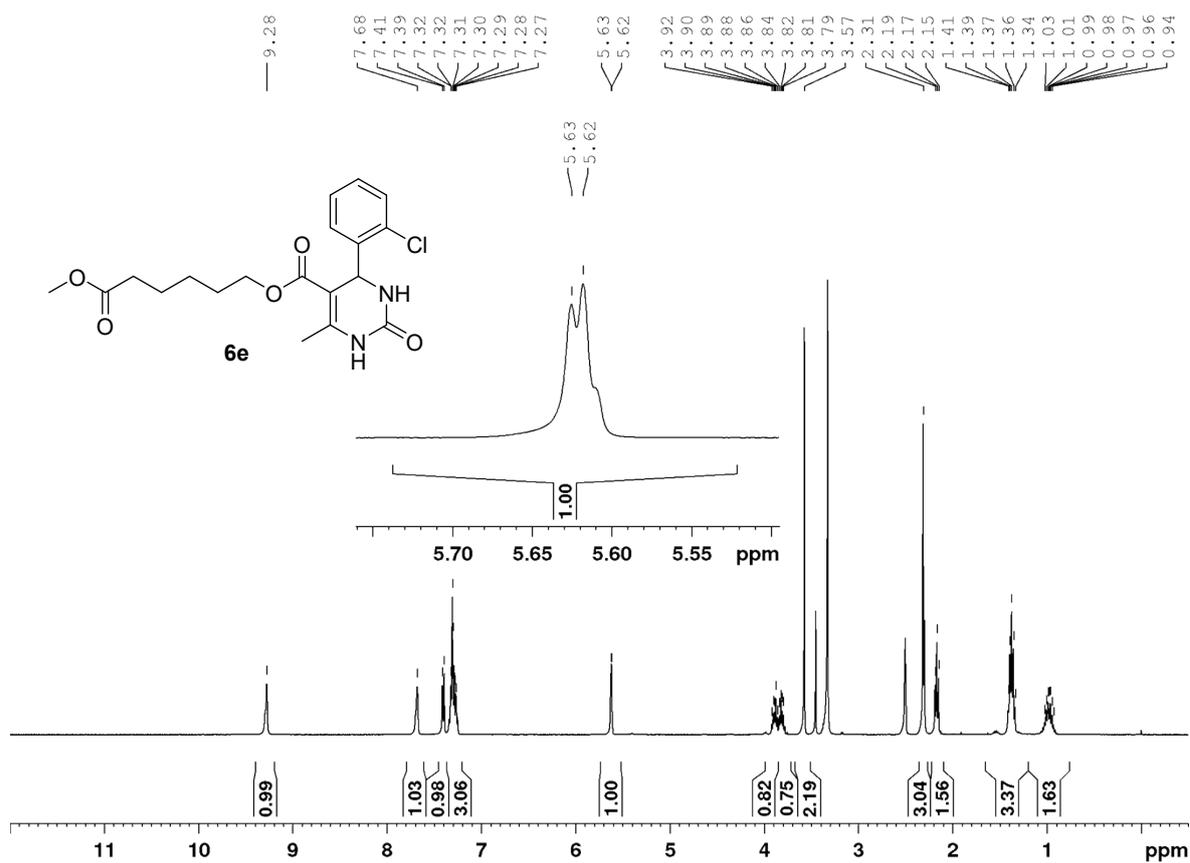


Figure S13. ^1H NMR (400 MHz, DMSO-d_6) spectrum of DHPM **6e**.

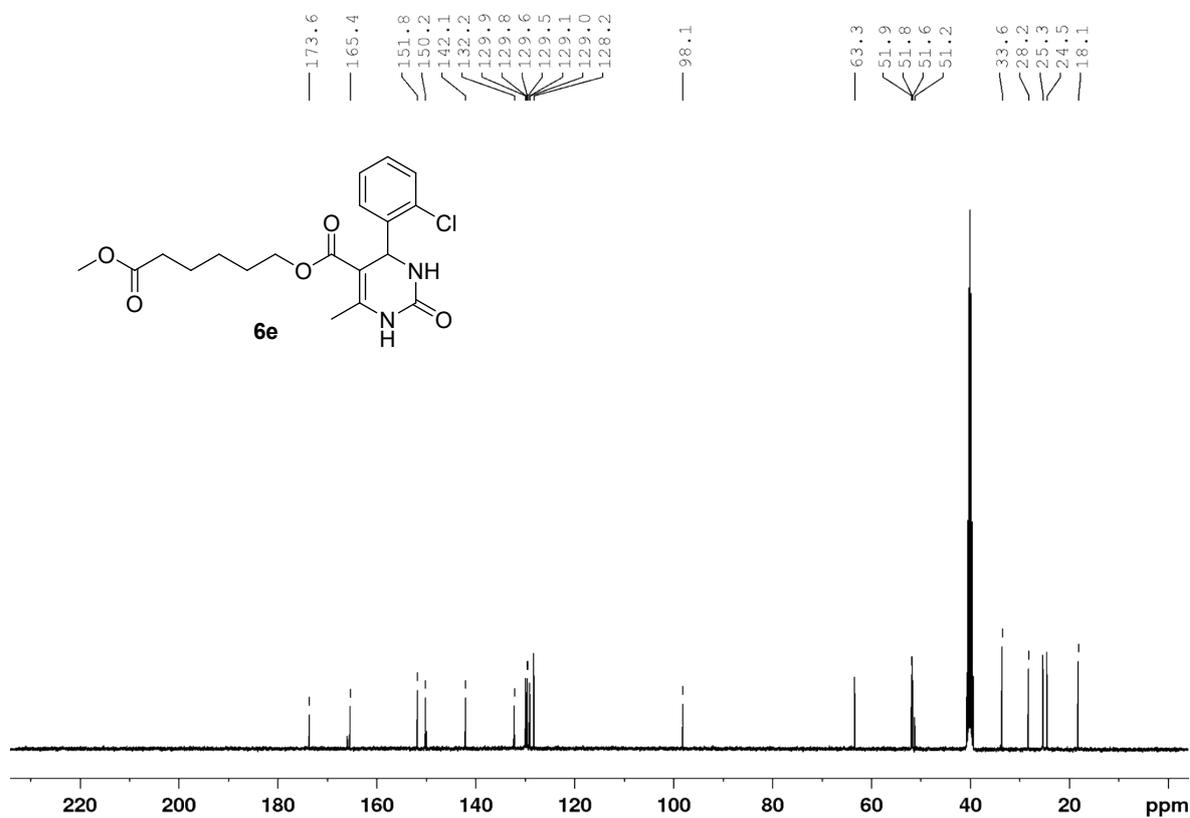


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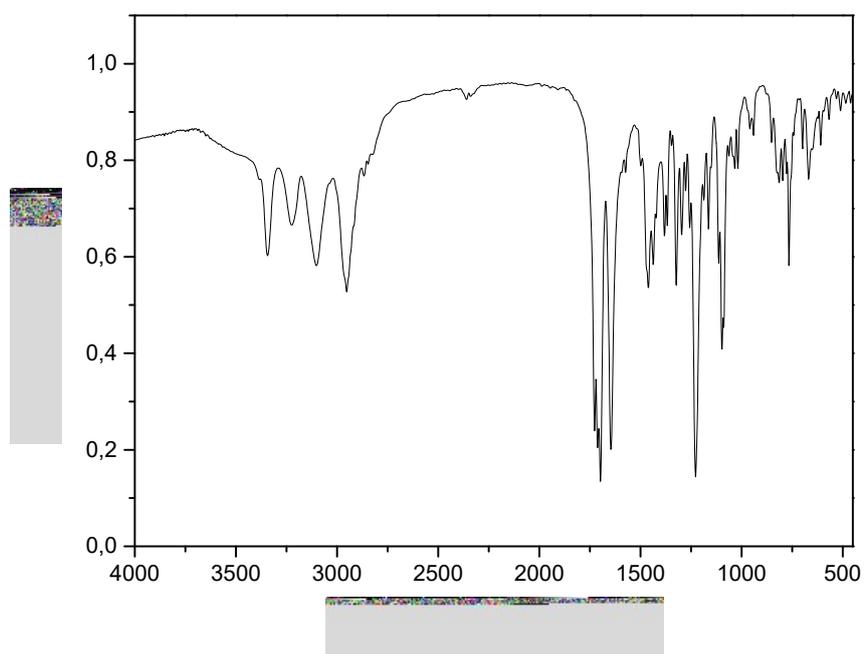


Figure S15. FT-IR (4000-400 cm^{-1} , KBr) spectrum of DHPM **6e**.

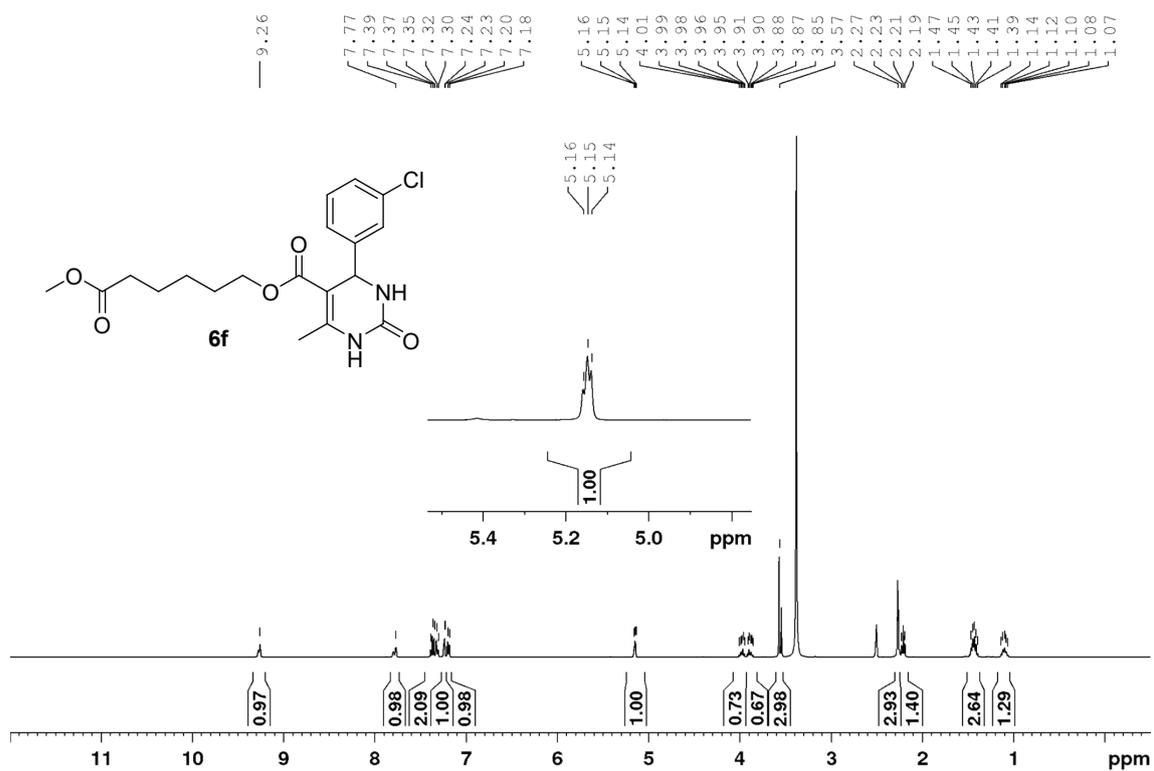


Figure S16. ^1H NMR (400 MHz, DMSO-d_6) spectrum of DHPM **6f**.

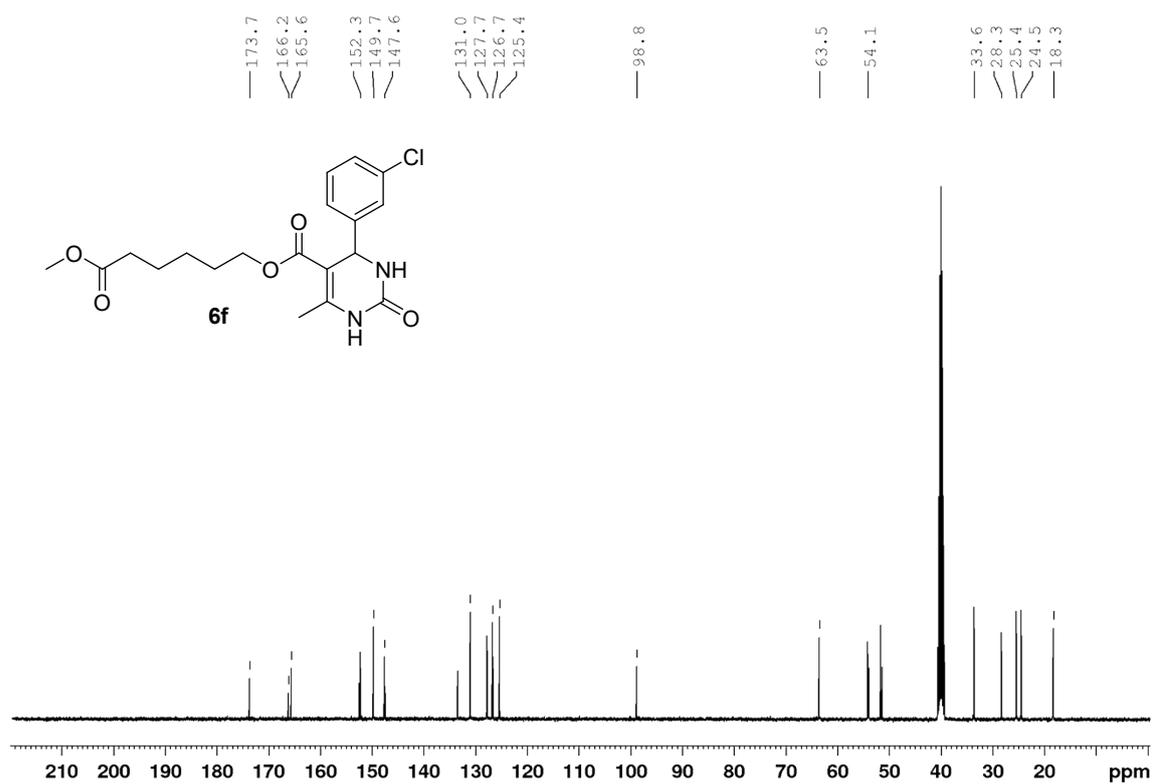


Figure S17. ^{13}C NMR (100 MHz, DMSO- d_6) spectrum of DHPM **6f**.

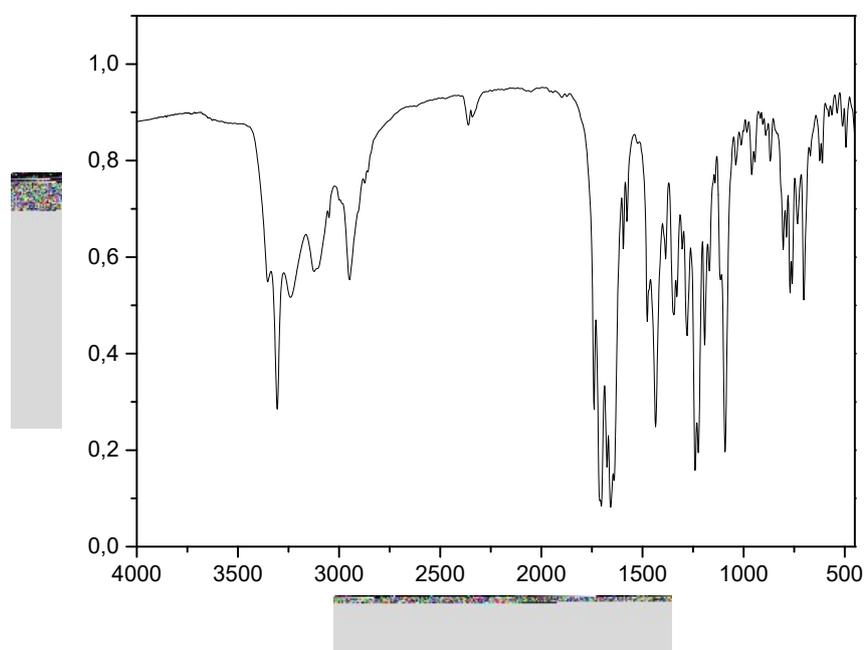


Figure S18. FT-IR (4000-400 cm^{-1} , KBr) spectrum of DHPM **6f**.

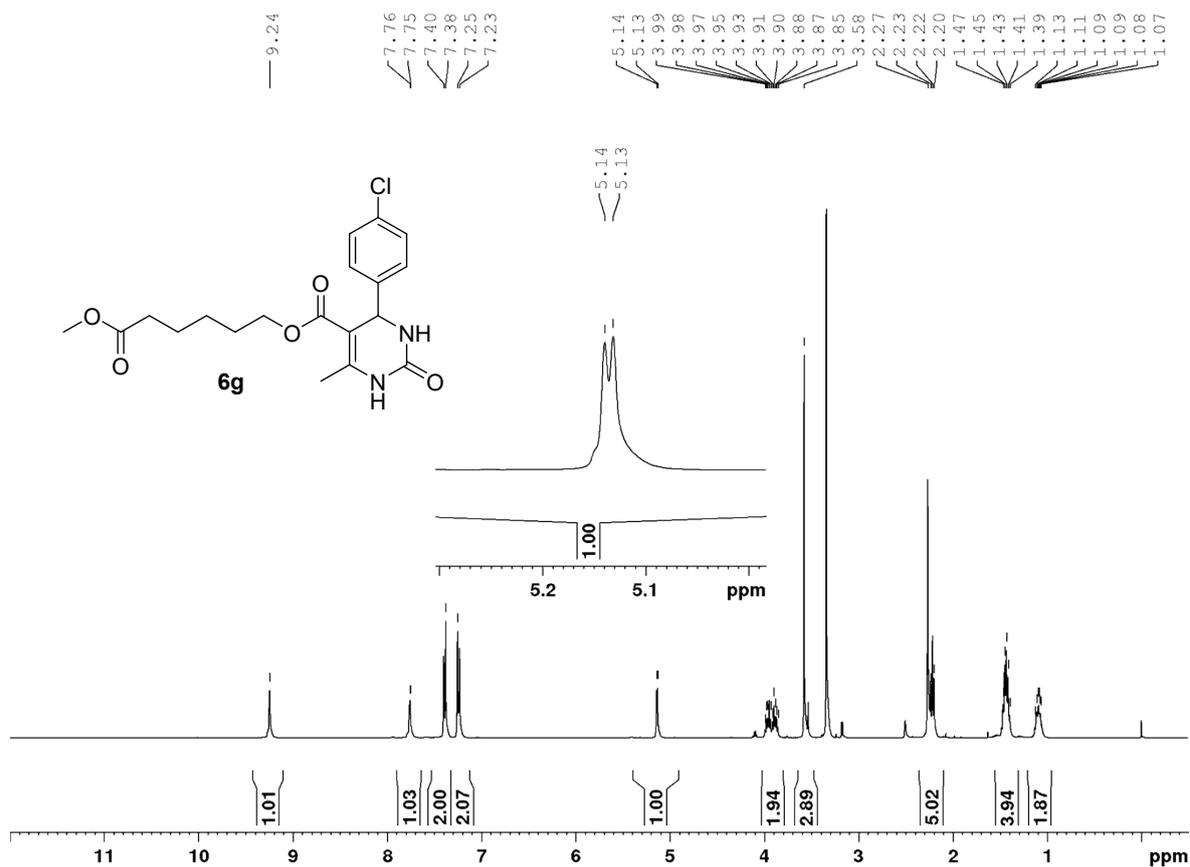


Figure S19. ^1H NMR (400 MHz, DMSO-d_6) spectrum of DHPM **6g**.

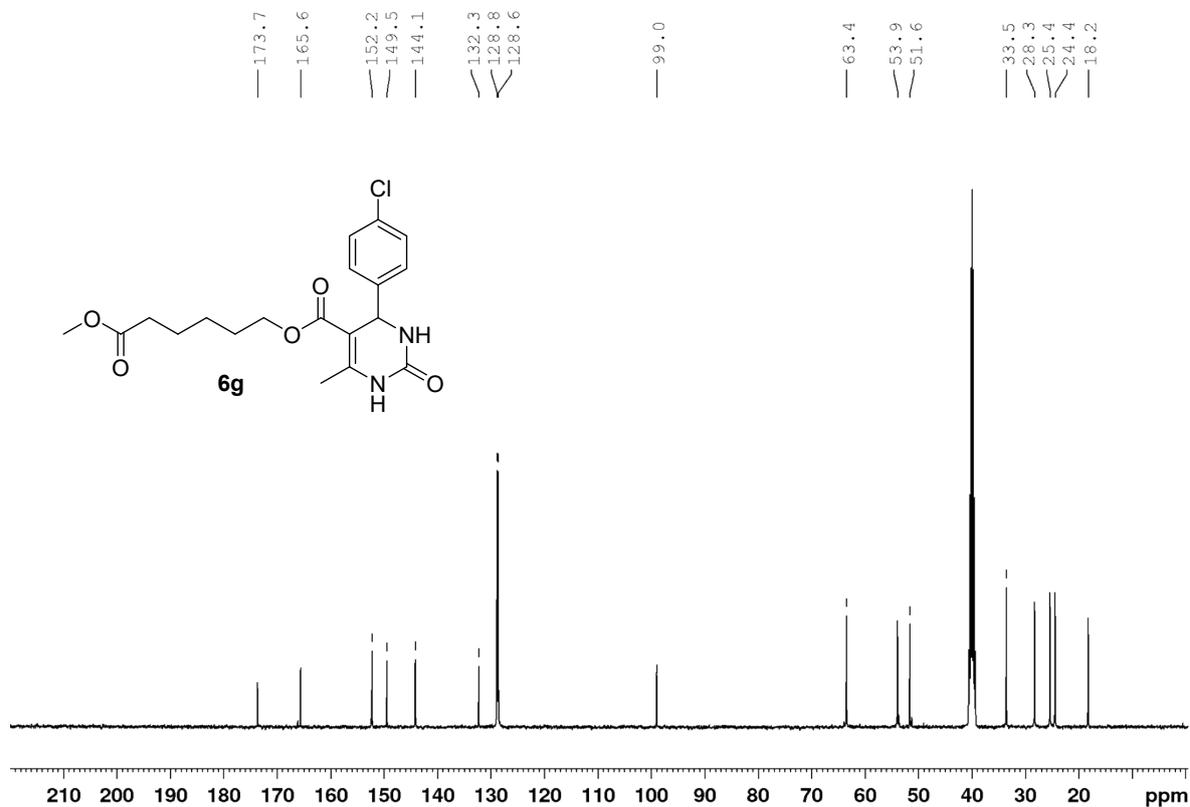


Figure S20. ^{13}C NMR (100 MHz, DMSO-d_6) spectrum of DHPM **6g**.

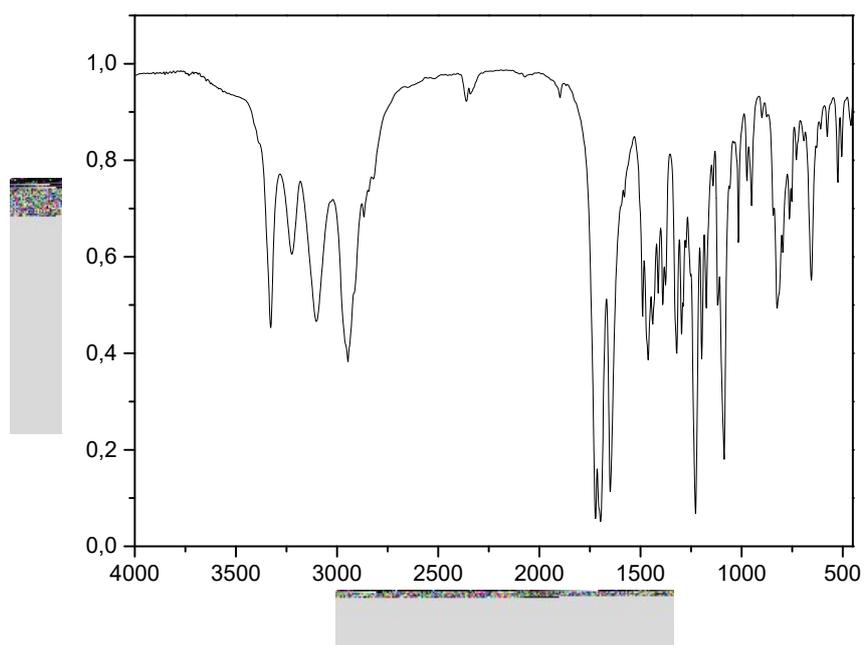


Figure S21. FT-IR (4000-400 cm^{-1} , KBr) spectrum of DHPM **6g**.

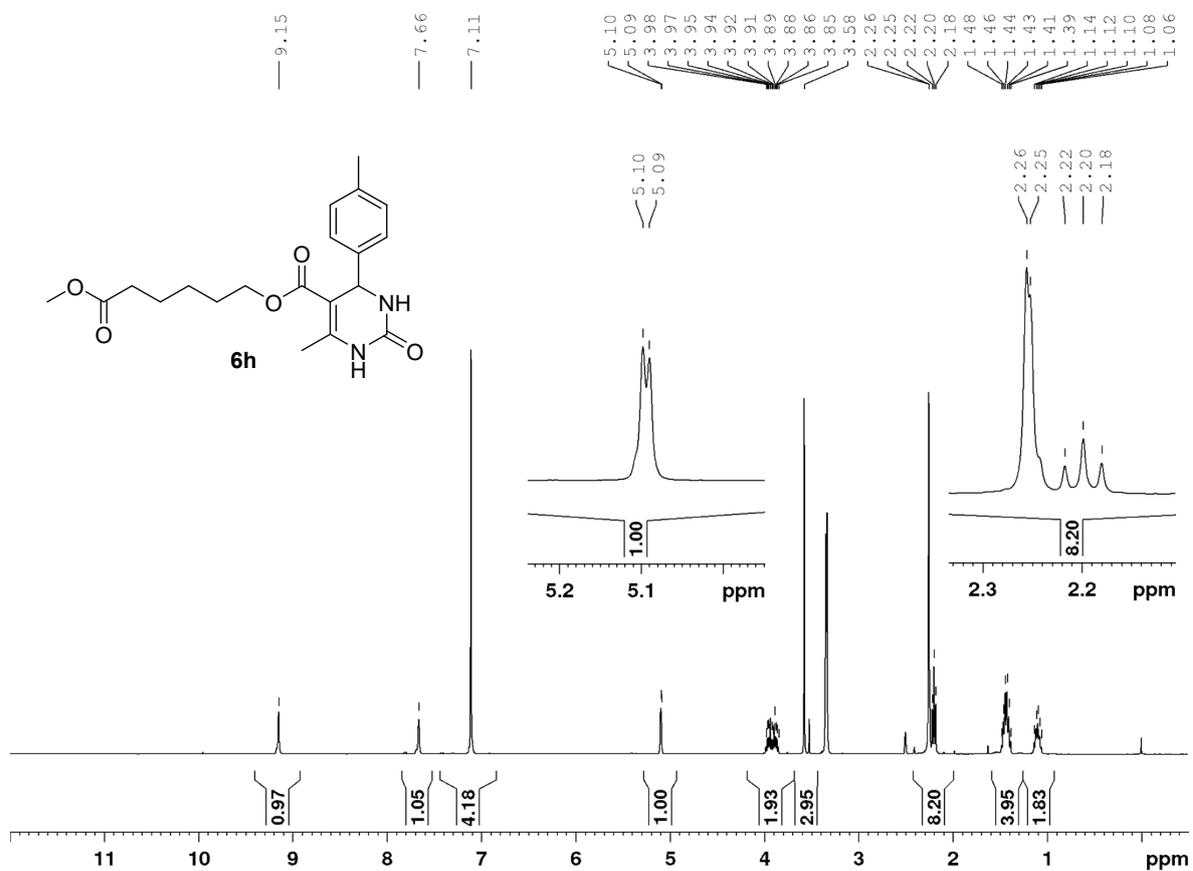


Figure S22. ^1H NMR (400 MHz, DMSO-d_6) spectrum of DHPM **6h**.

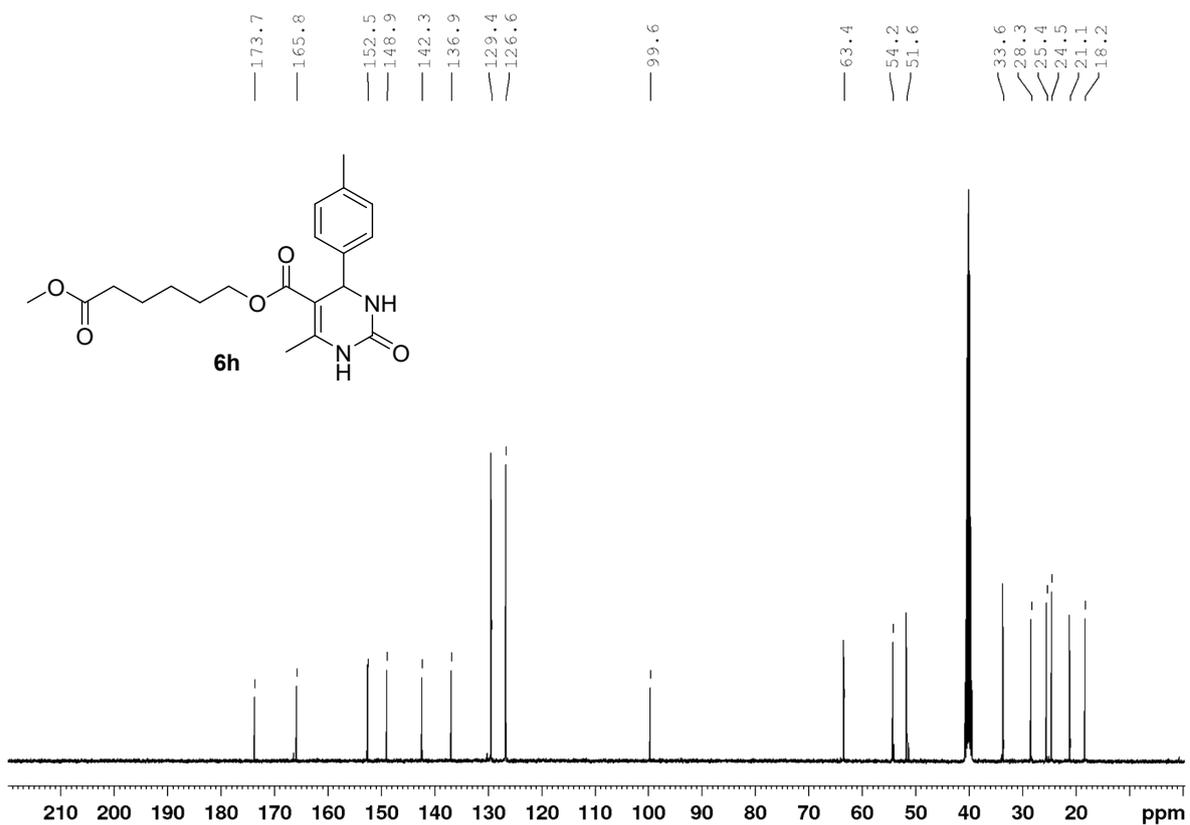


Figure S23. ¹³C NMR (100 MHz, DMSO-d₆) spectrum of DHPM 6h.

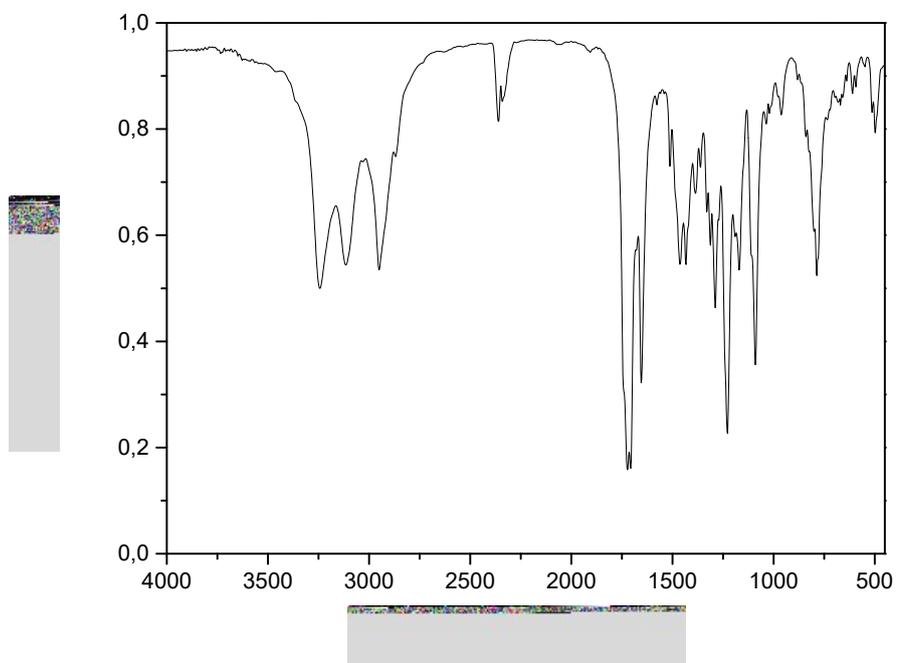


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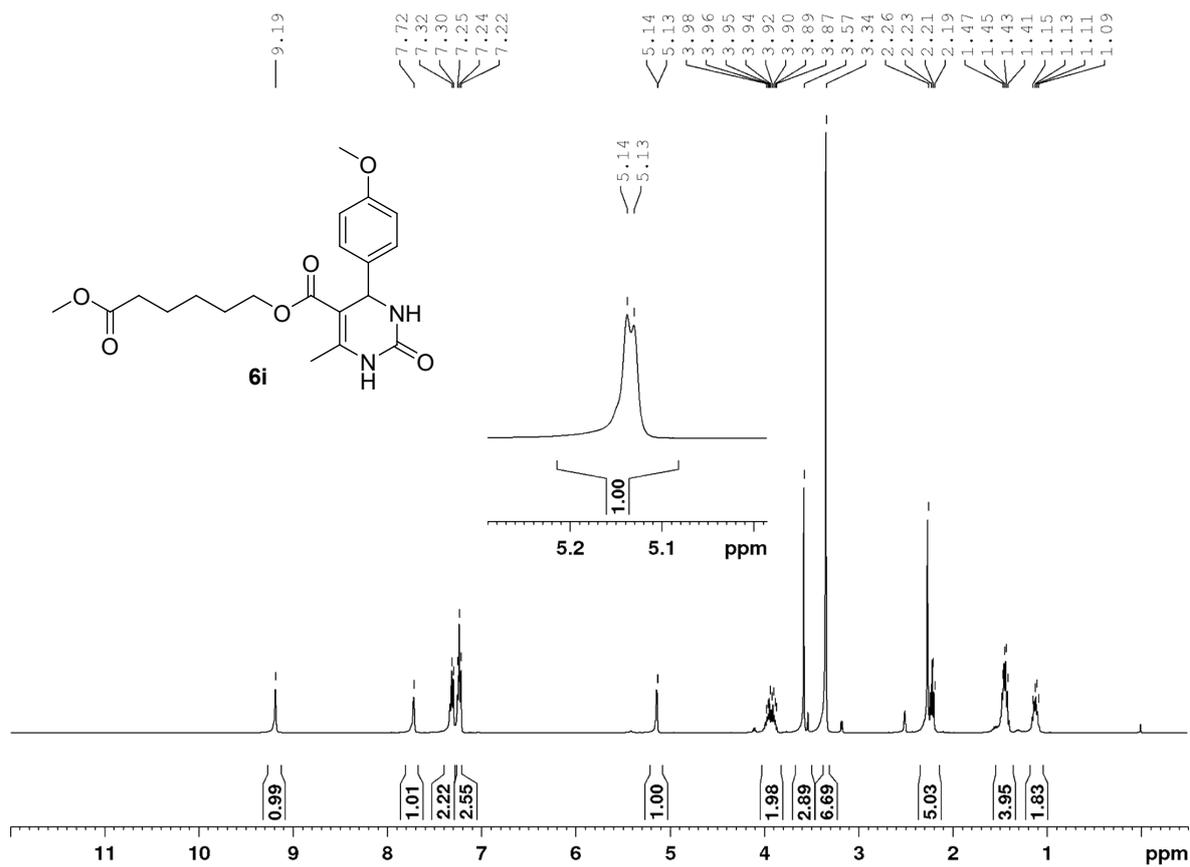


Figure S25. ¹H NMR (400 MHz, DMSO-d₆) spectrum of DHPM **6i**.

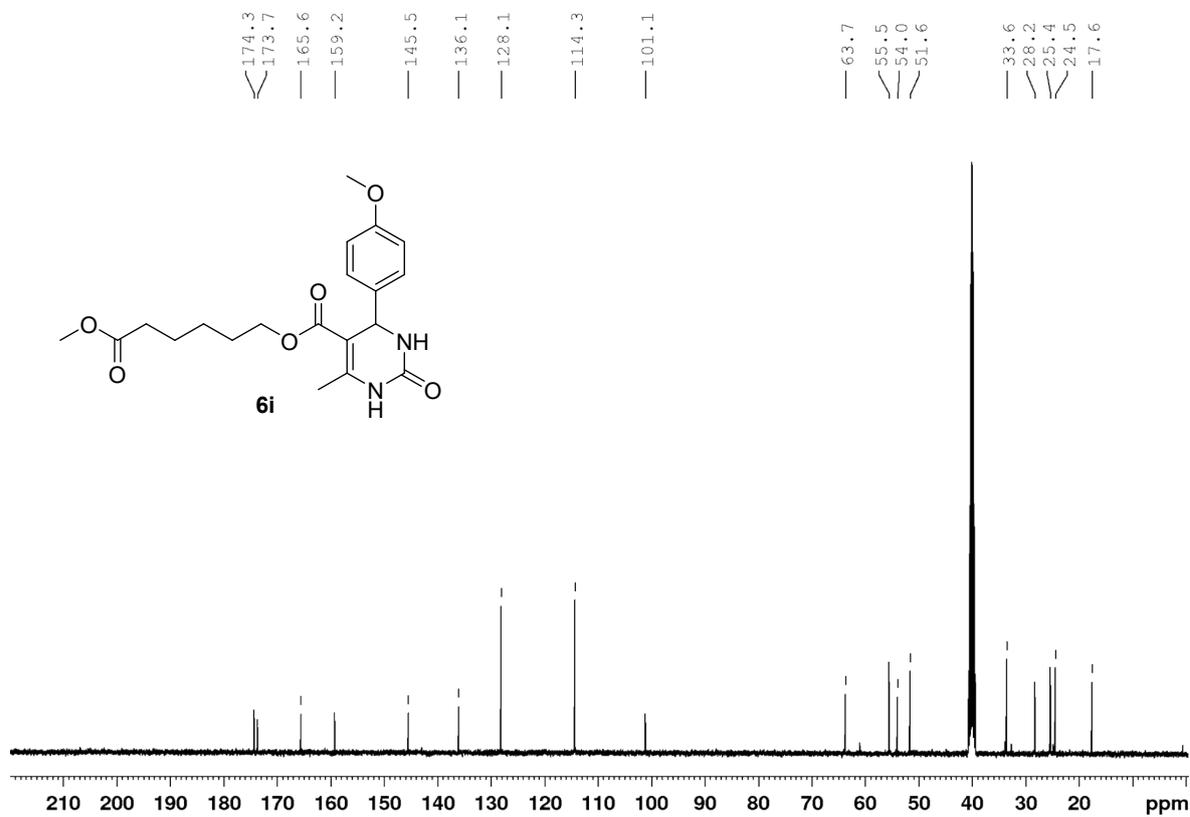


Figure S26. ¹³C NMR (100 MHz, DMSO-d₆) spectrum of DHPM **6i**.

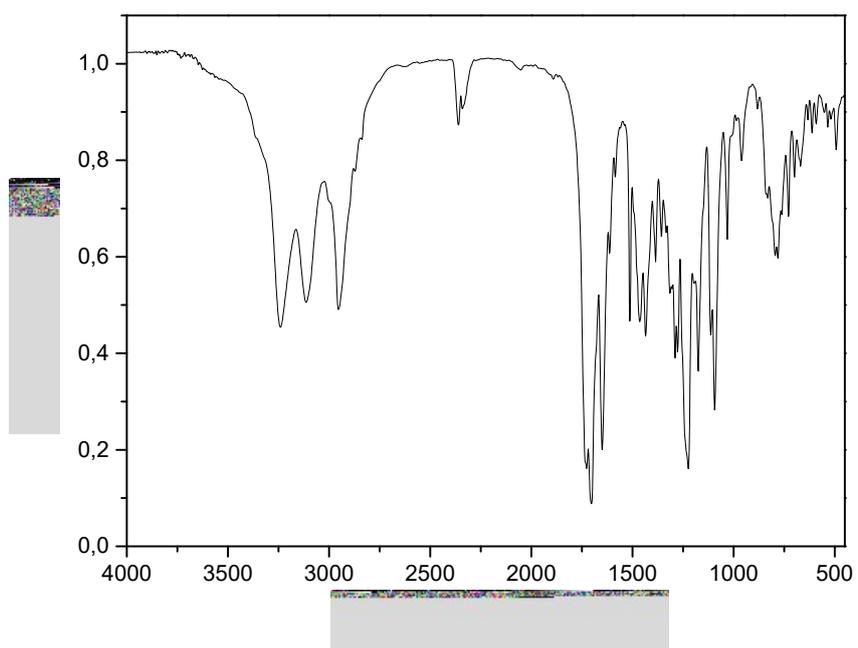


Figure S27. FT-IR (4000-400 cm⁻¹, KBr) spectrum of DHPM **6i**.

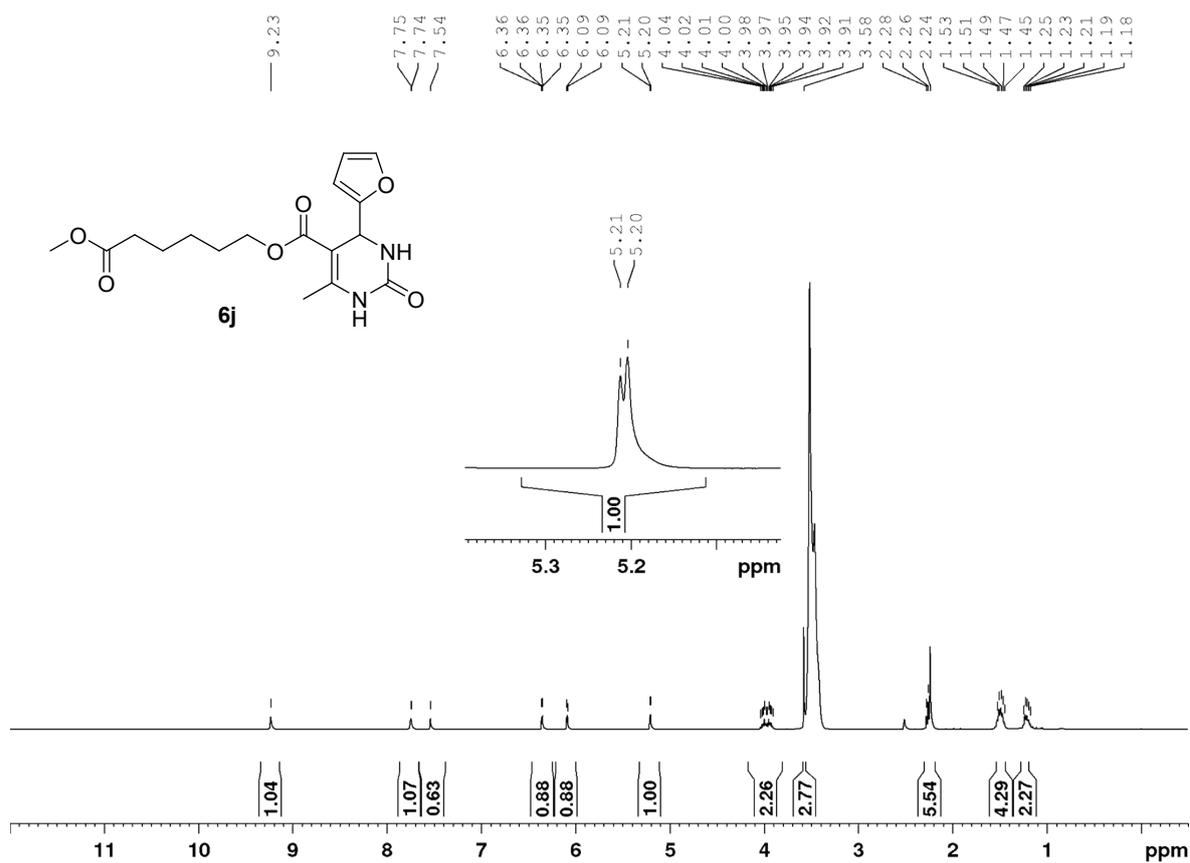


Figure S28. ¹H NMR (400 MHz, DMSO-d₆) spectrum of DHPM **6j**.

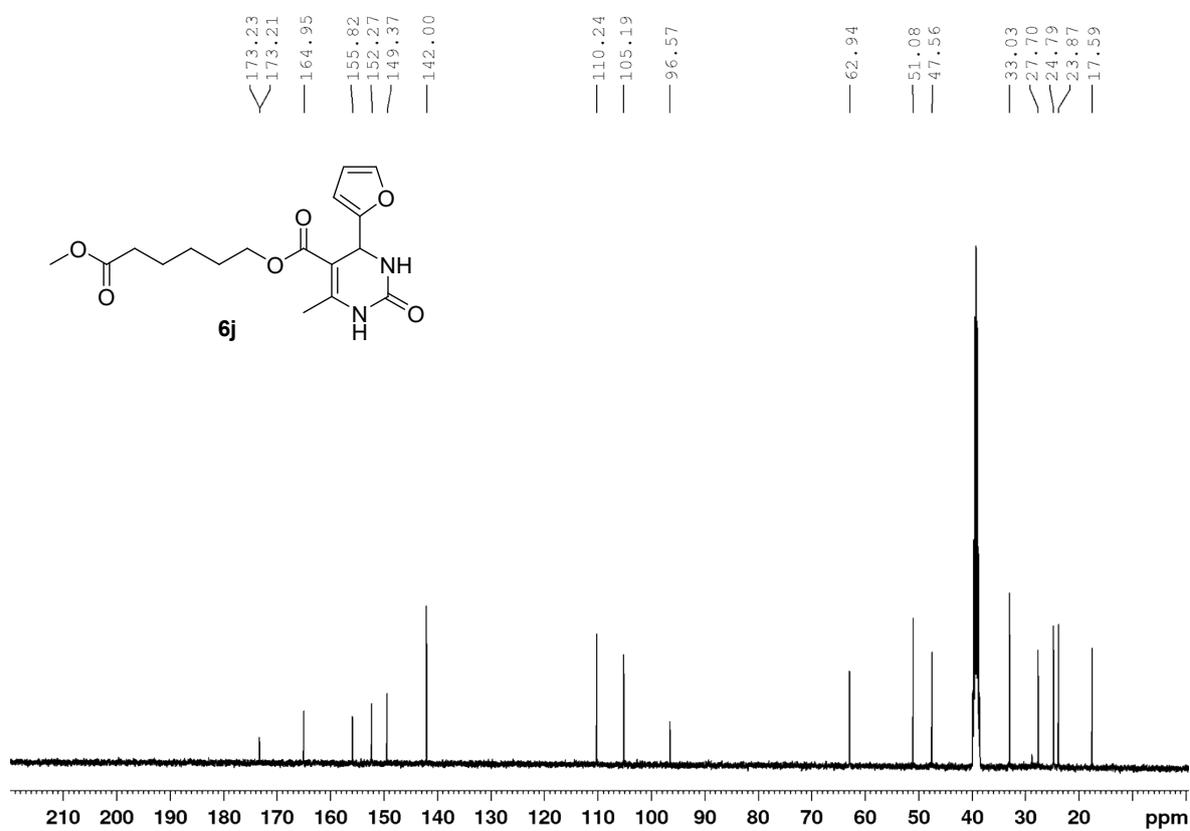


Figure S29. ¹³C NMR (100 MHz, DMSO-d₆) spectrum of DHPM **6j**.

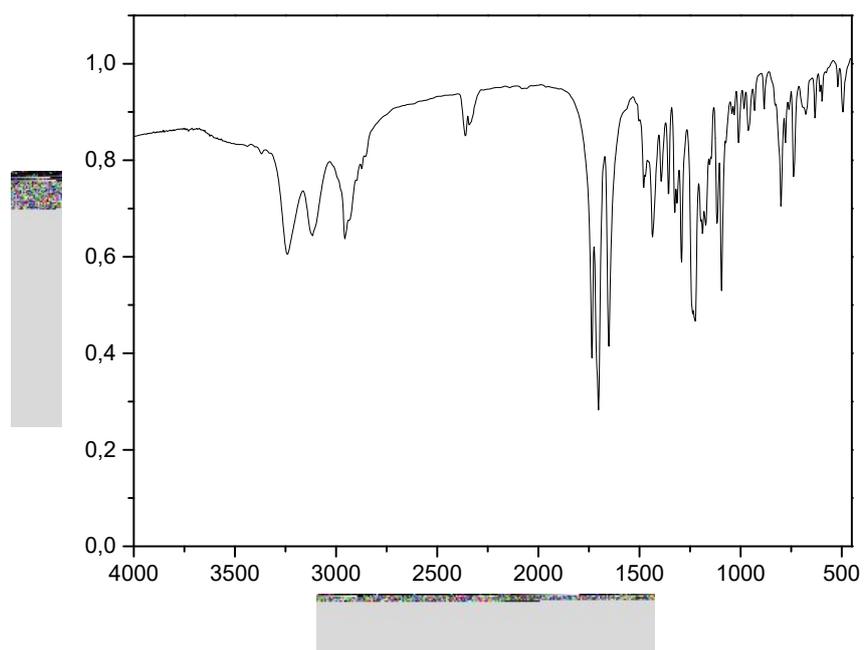


Figure S30. FT-IR (4000-400 cm^{-1} , KBr) spectrum of DHPM **6j**.

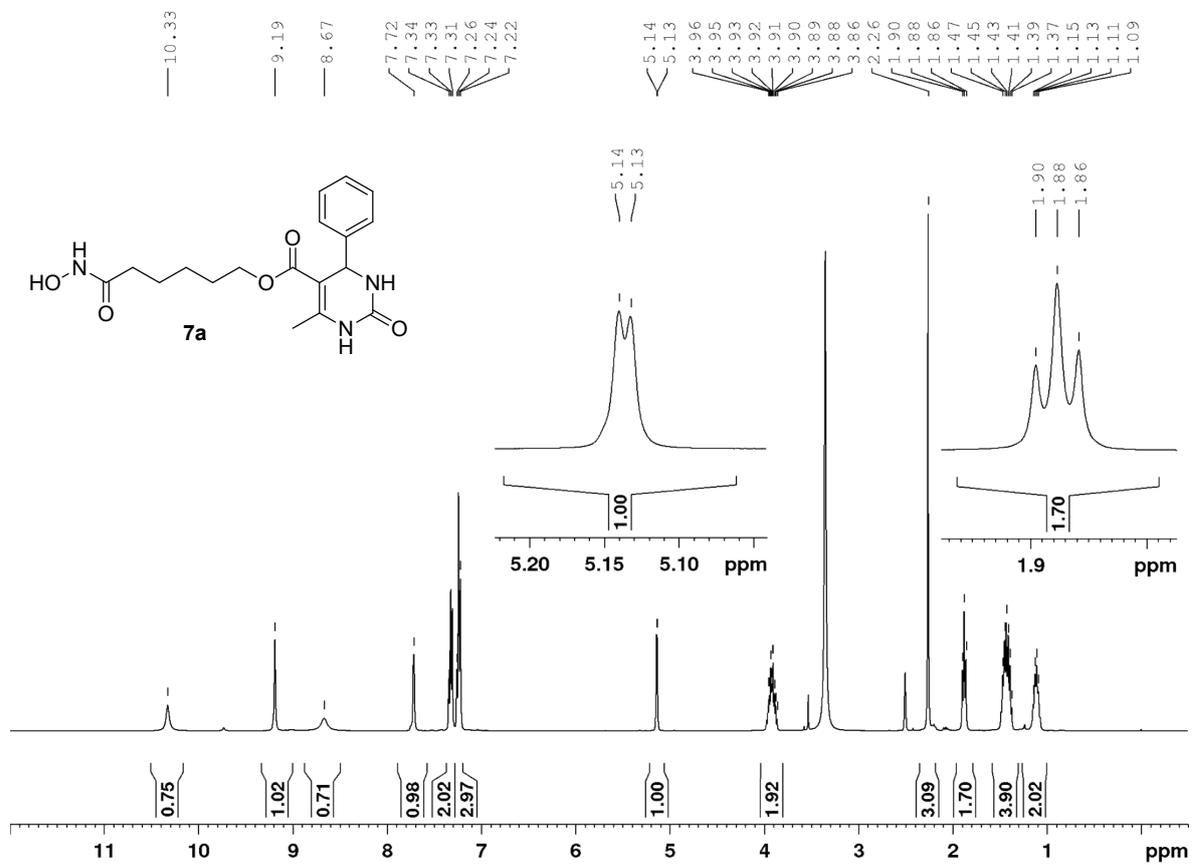
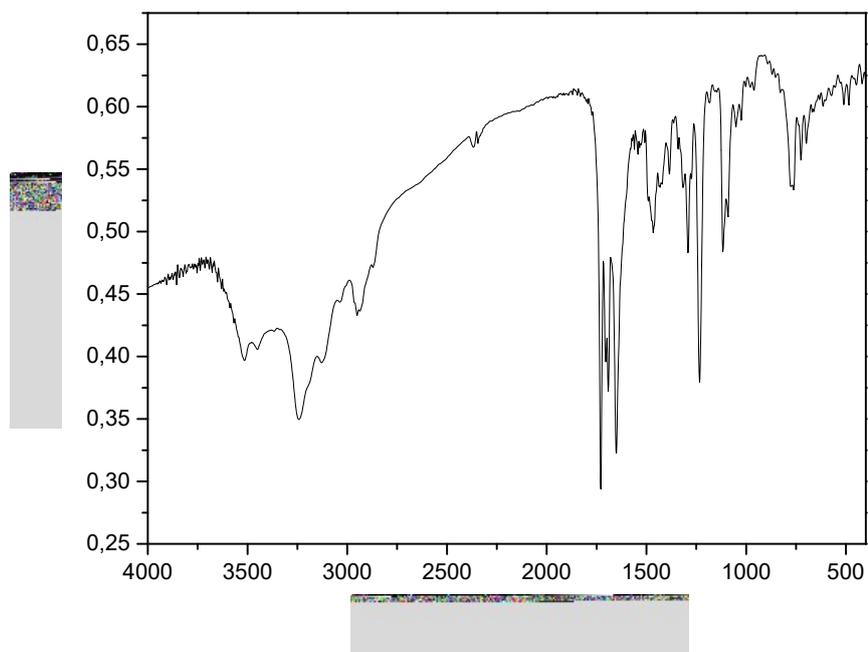
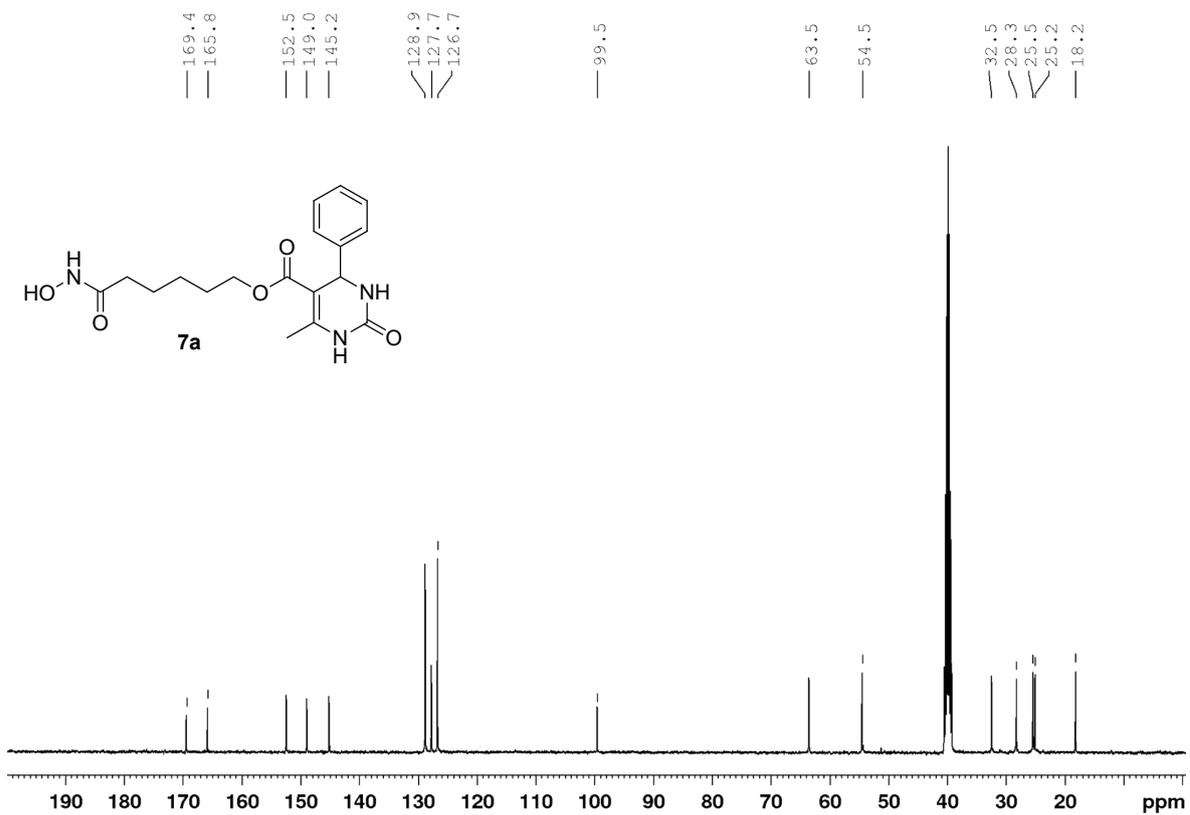


Figure S31. ^1H NMR (400 MHz, DMSO-d_6) spectrum of DHPM-SAHA **7a**.



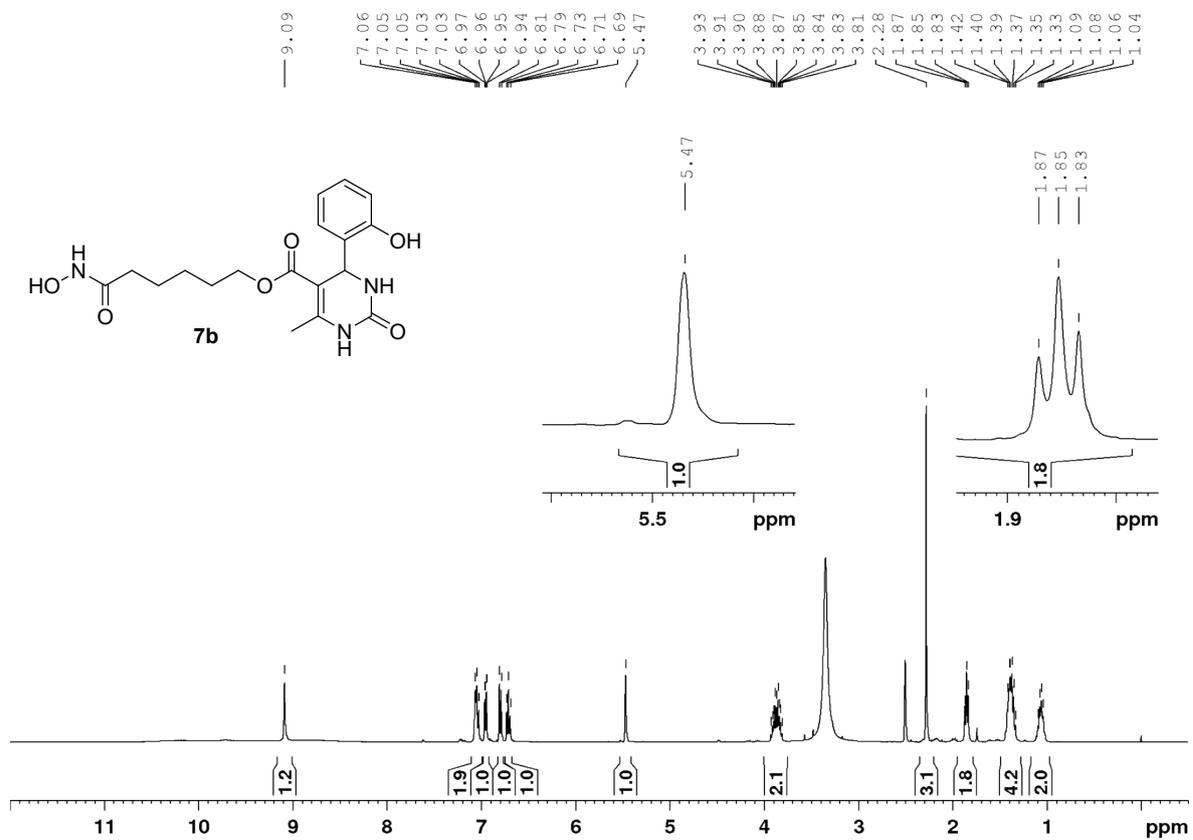
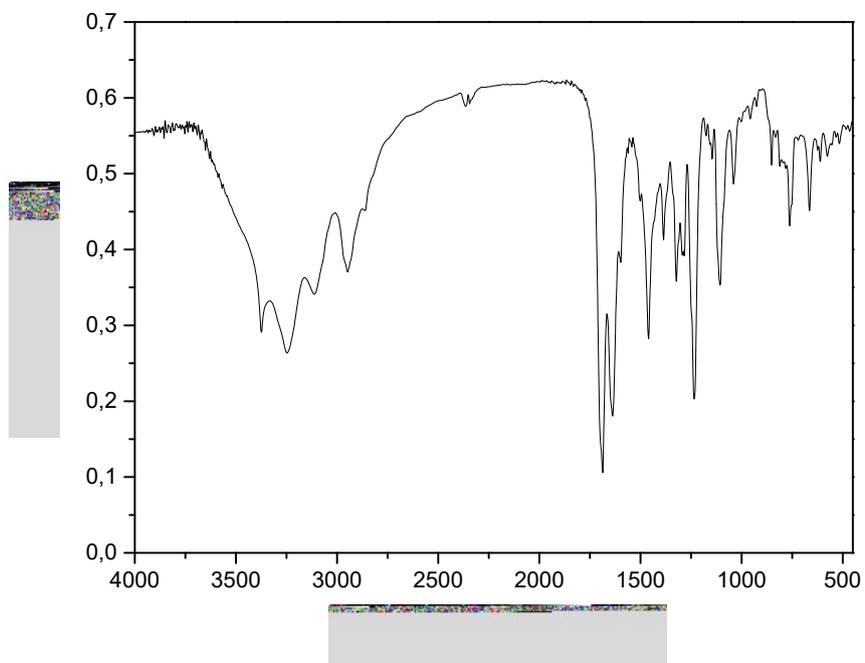
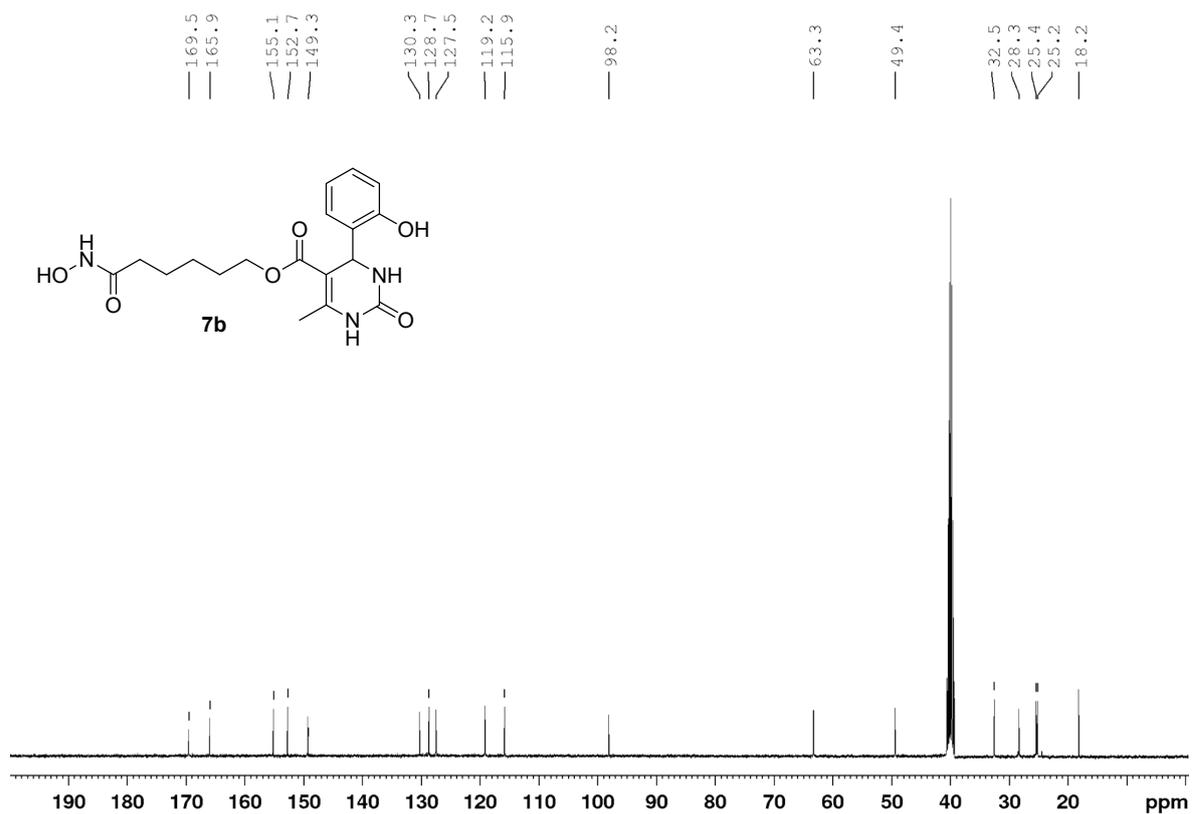
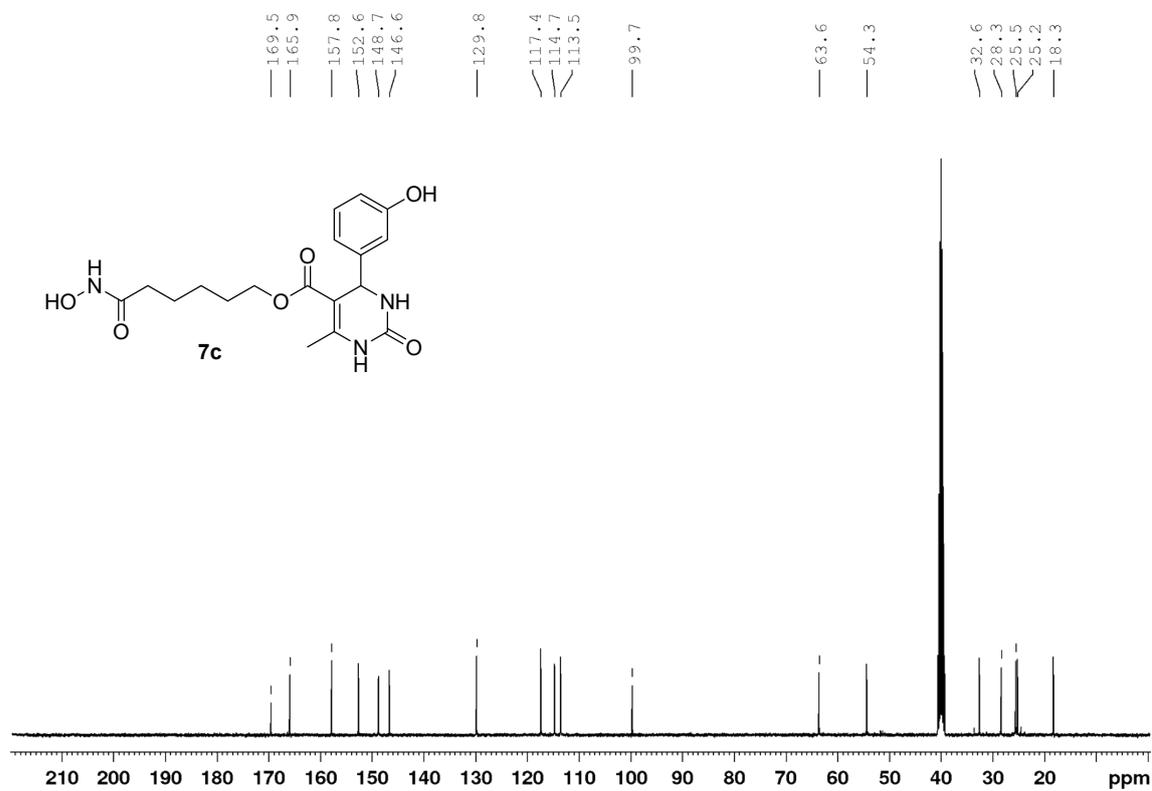
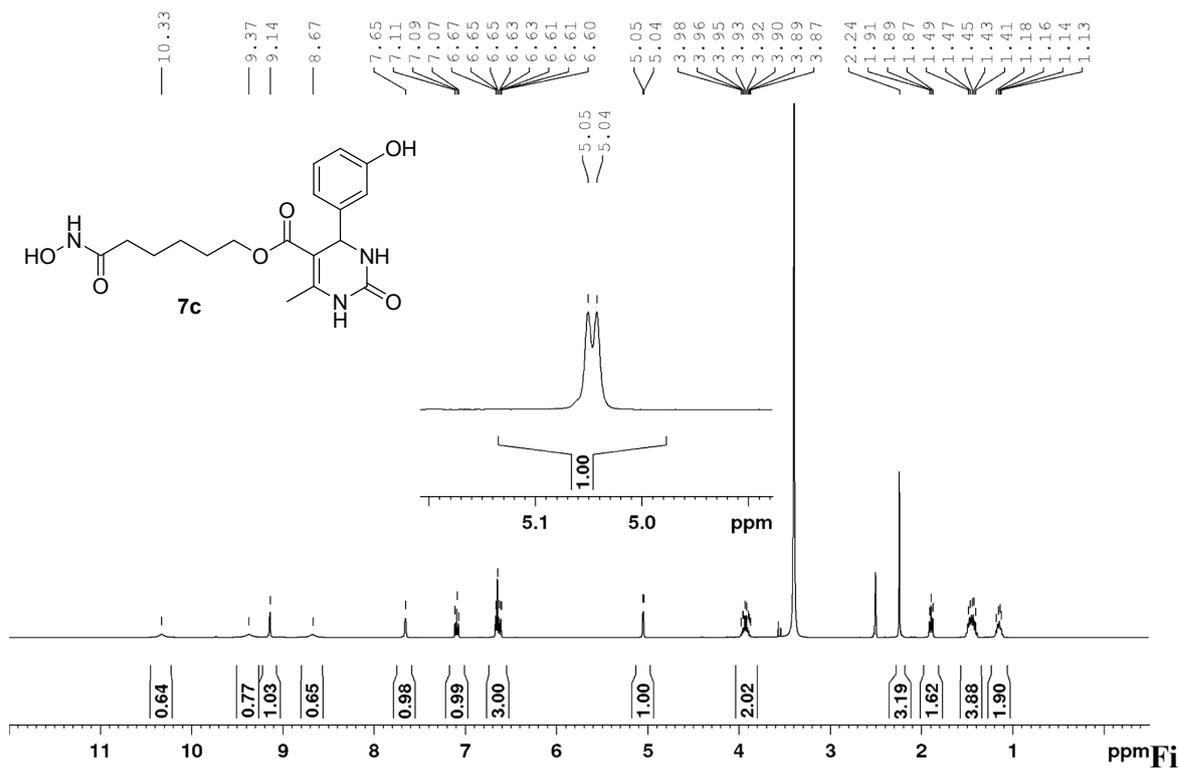


Figure S35. ¹H NMR (400 MHz, DMSO-d₆) spectrum of DHPM-SAHA **7b**.





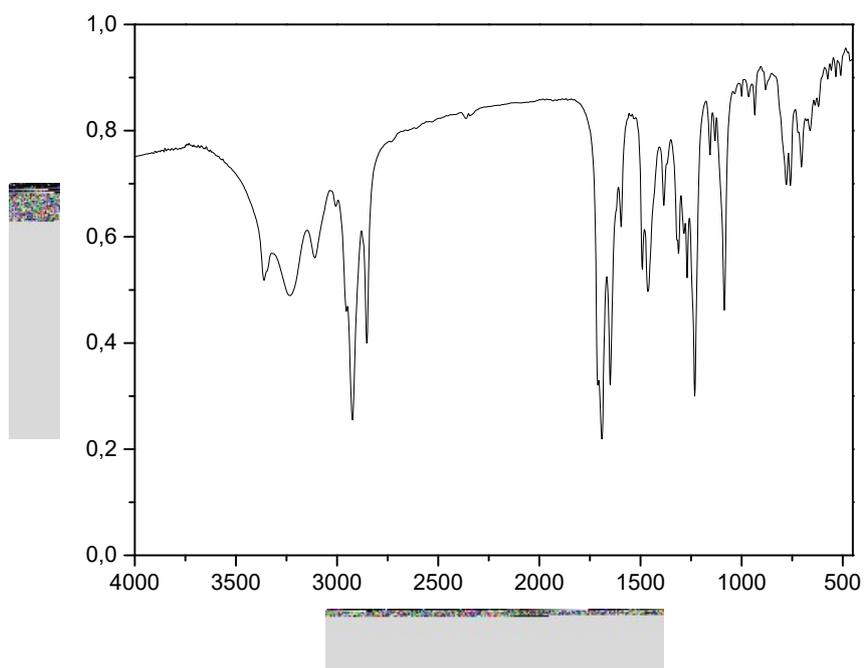


Figure S39. FT-IR (4000-400 cm^{-1} , KBr) spectrum of **7c**.

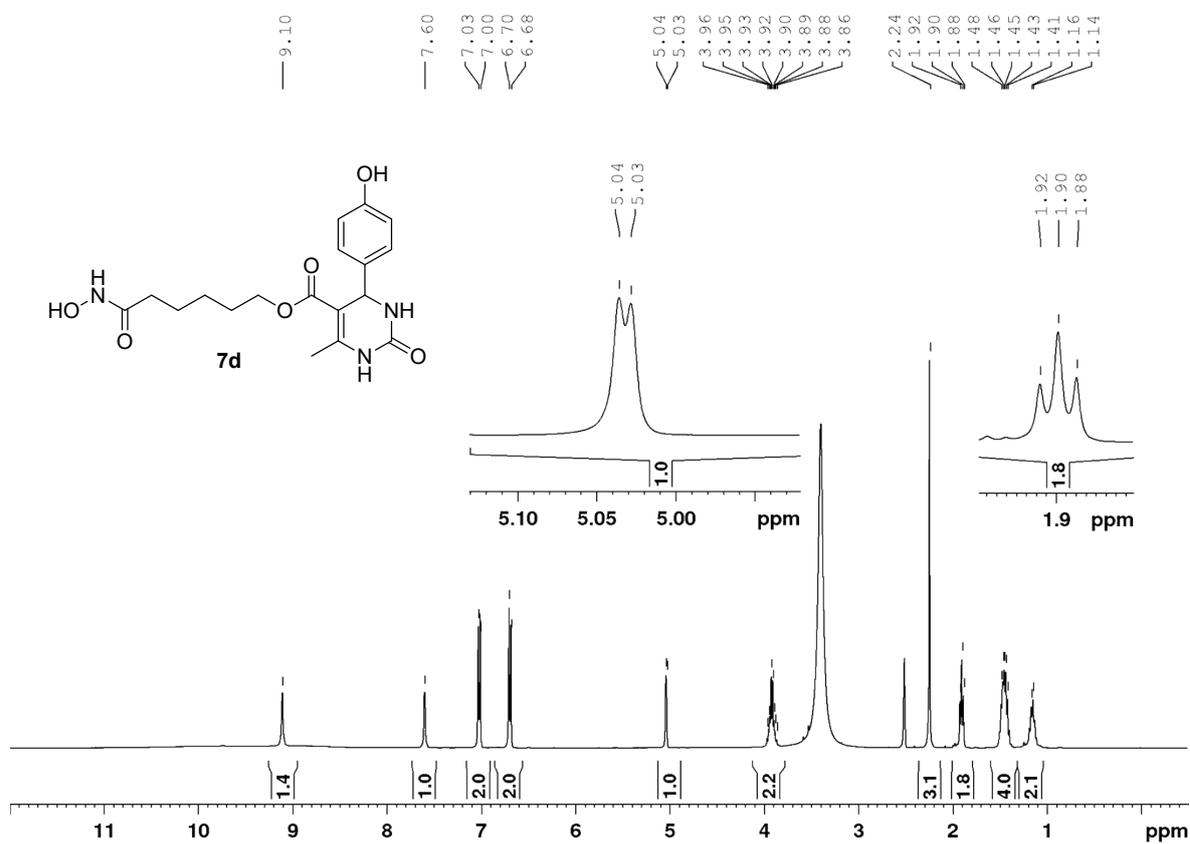


Figure S40. ^1H NMR (400 MHz, DMSO-d_6) spectrum of DHPM-SAHA **7d**.

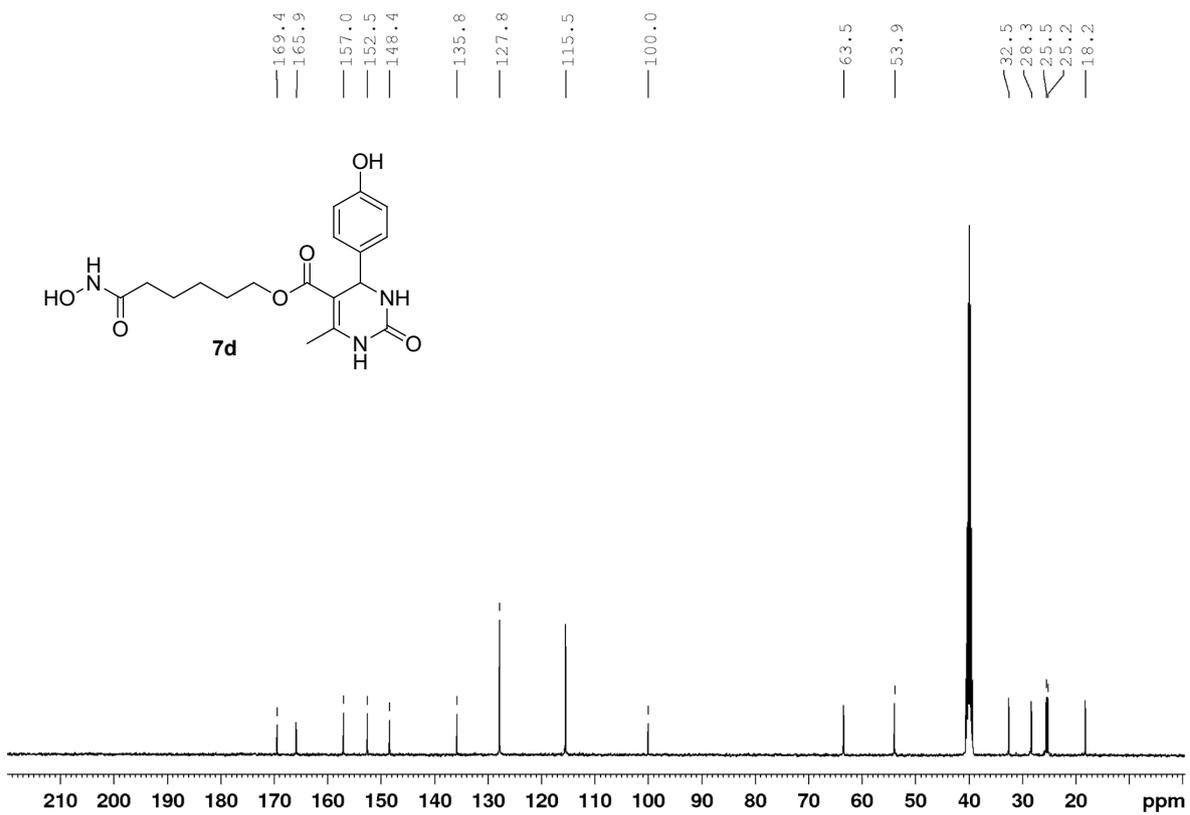


Figure S41. ¹³C NMR (100 MHz, DMSO-d₆) spectrum of DHPM-SAHA **7d**.

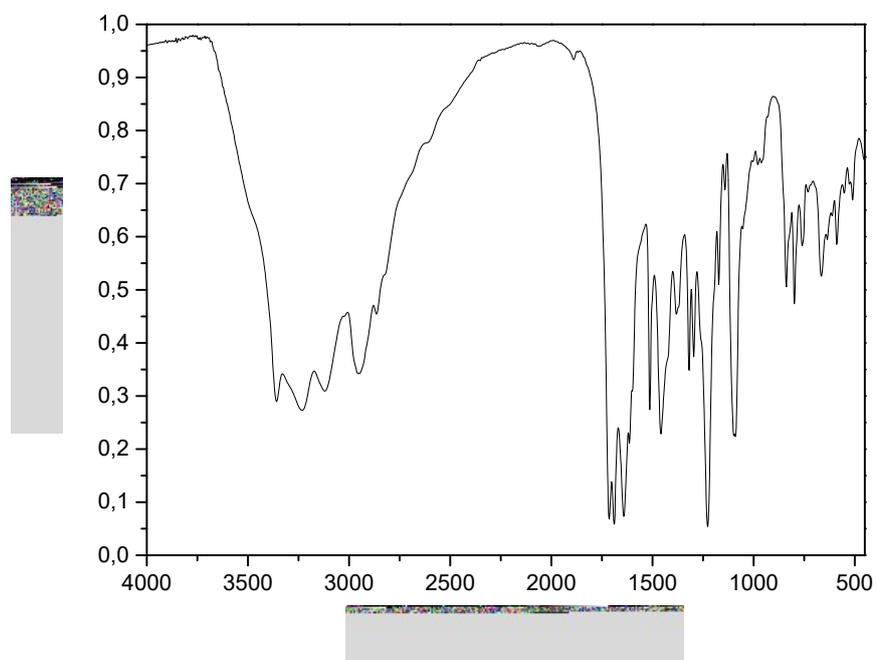


Figure S42. FT-IR (4000-400 cm⁻¹, KBr) spectrum of **7d**.

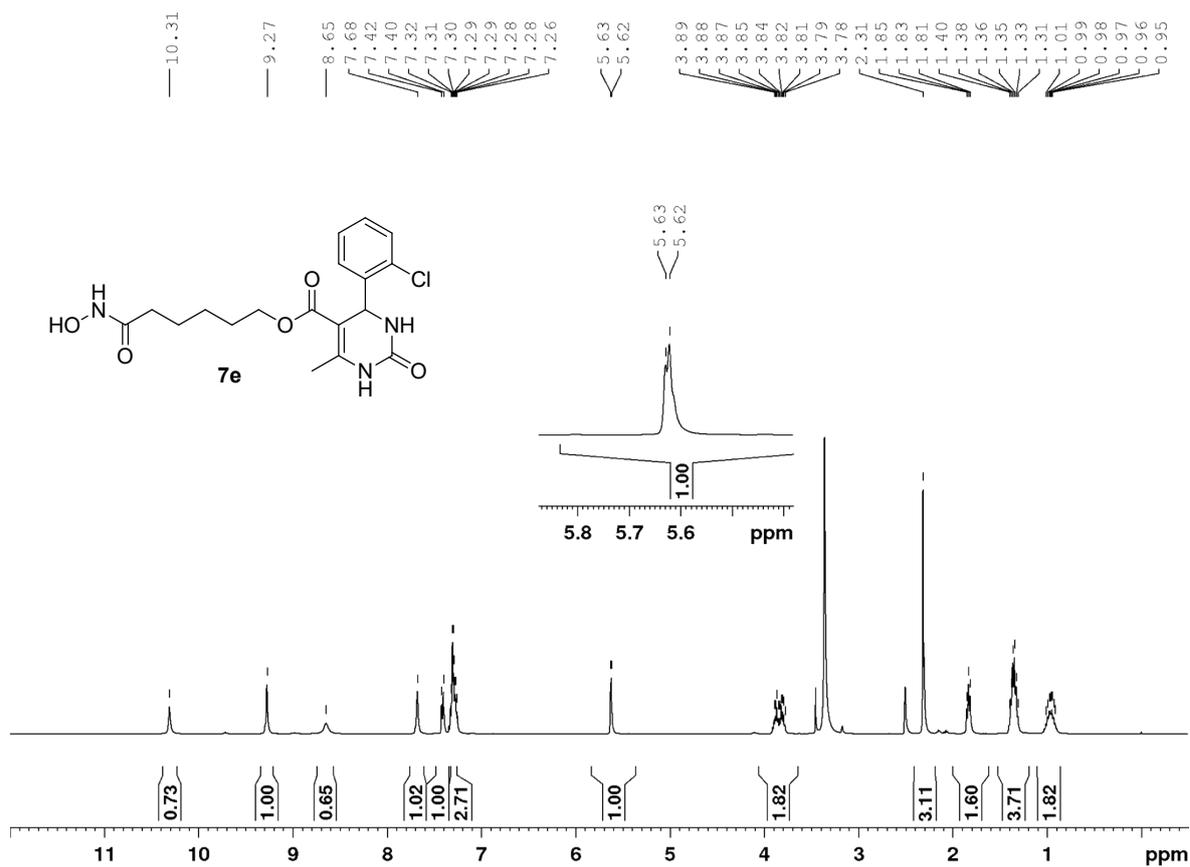


Figure S43. $^1\text{H NMR}$ (400 MHz, DMSO-d_6) spectrum of DHPM-SAHA **7e**.

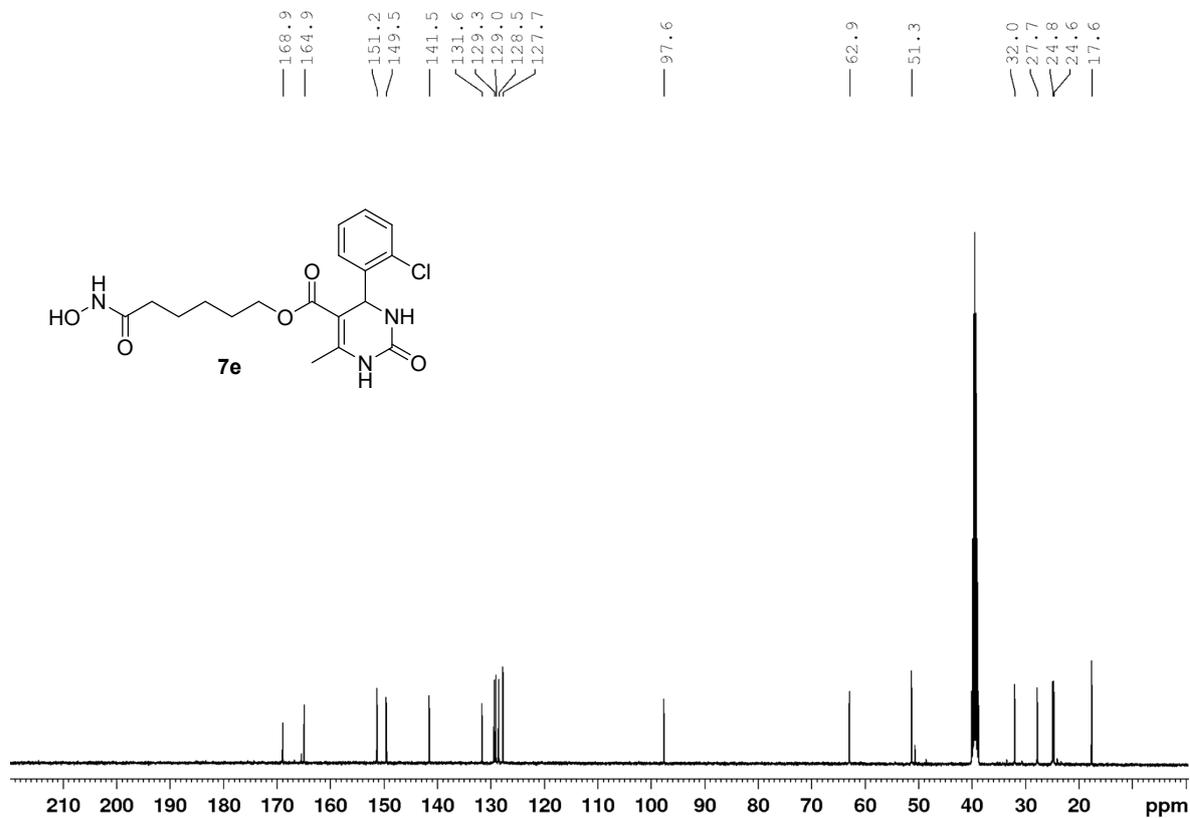


Figure S44. $^{13}\text{C NMR}$ (100 MHz, DMSO-d_6) spectrum of DHPM-SAHA **7e**.

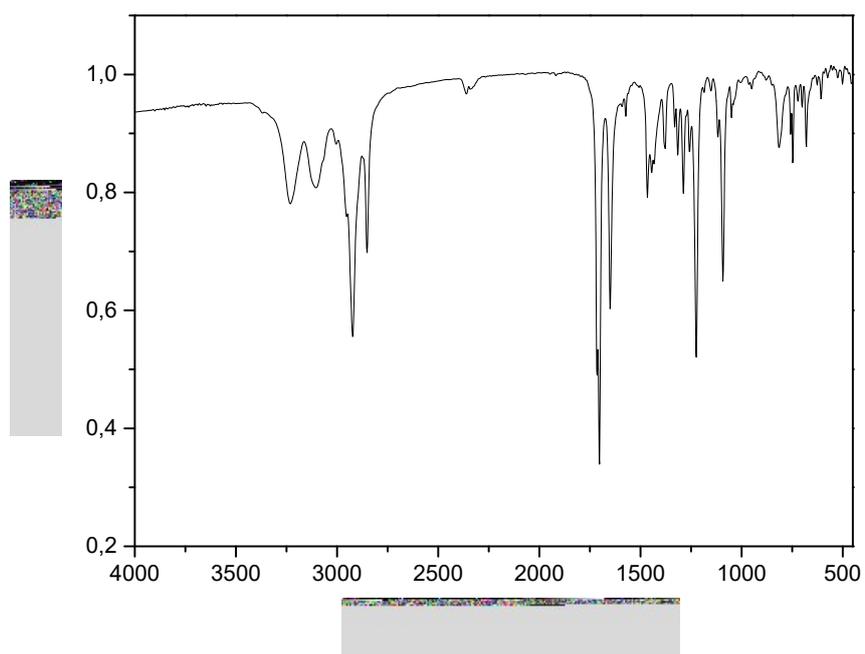


Figure S45. FT-IR (4000-400 cm^{-1} , KBr) spectrum of **7e**.

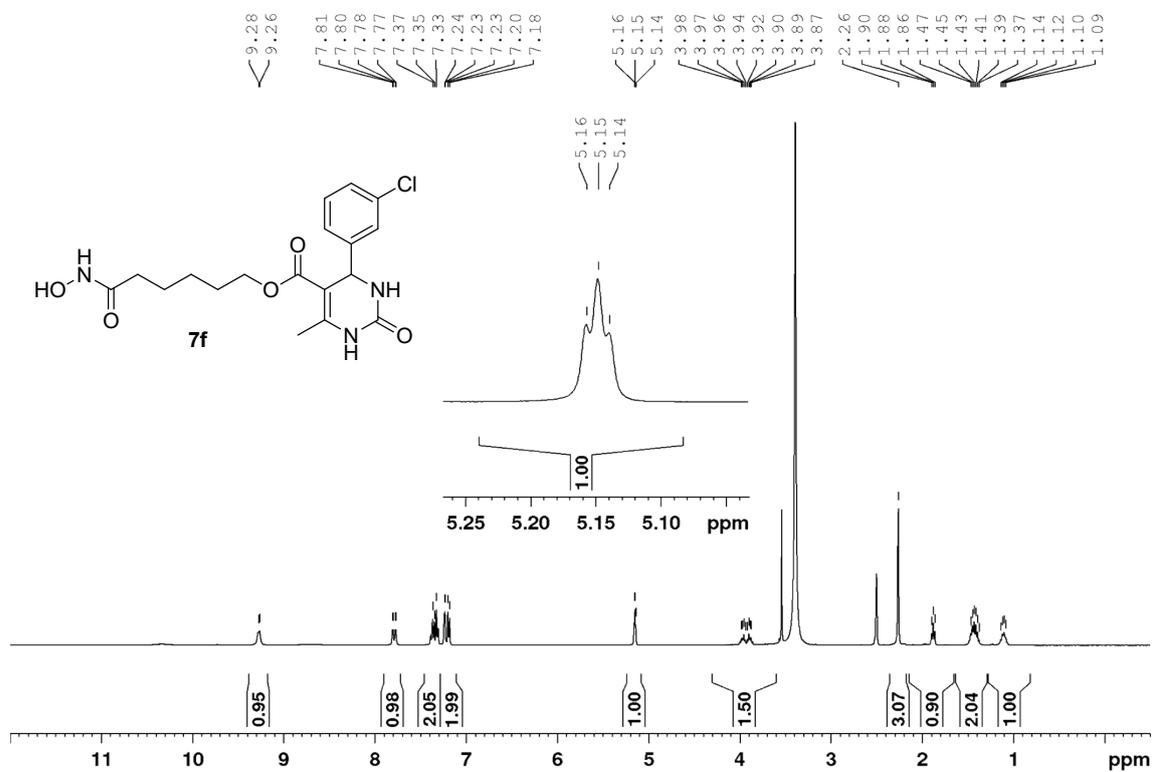


Figure S46. ^1H NMR (400 MHz, DMSO-d_6) spectrum of DHPM-SAHA **7f**.

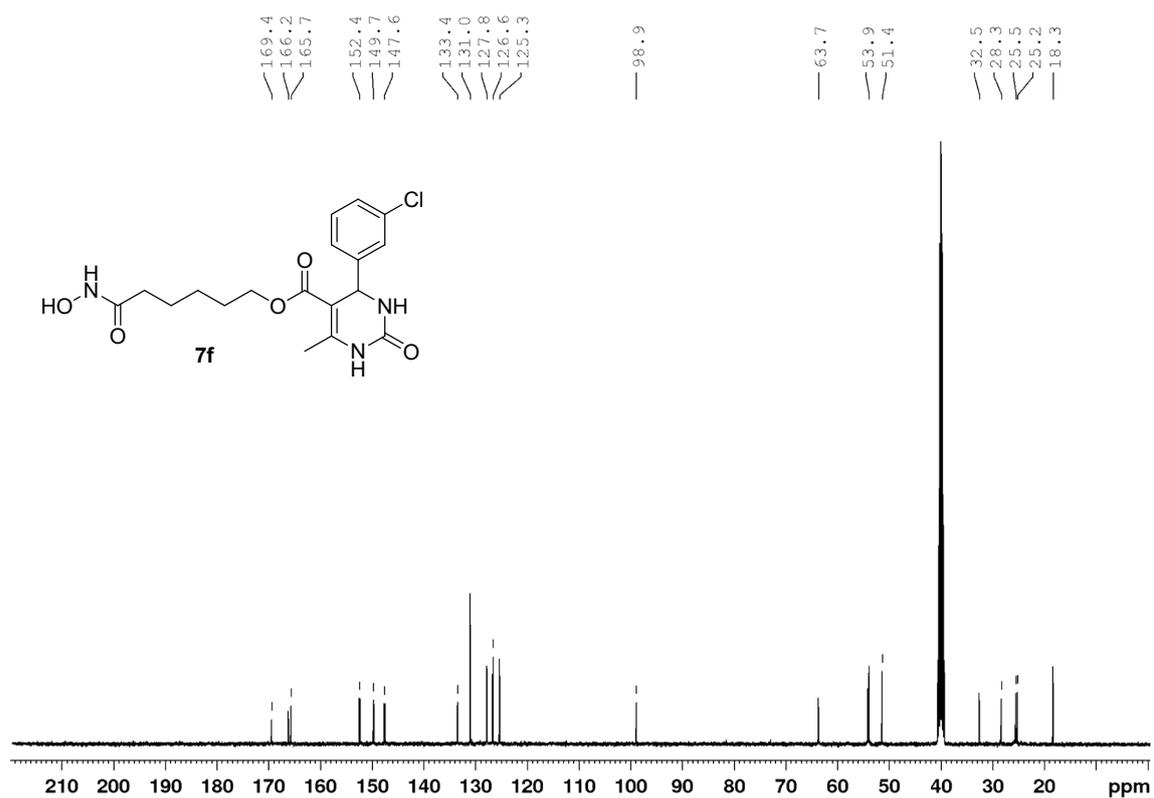


Figure S47. ^{13}C NMR (100 MHz, DMSO-d_6) spectrum of DHPM-SAHA **7f**.

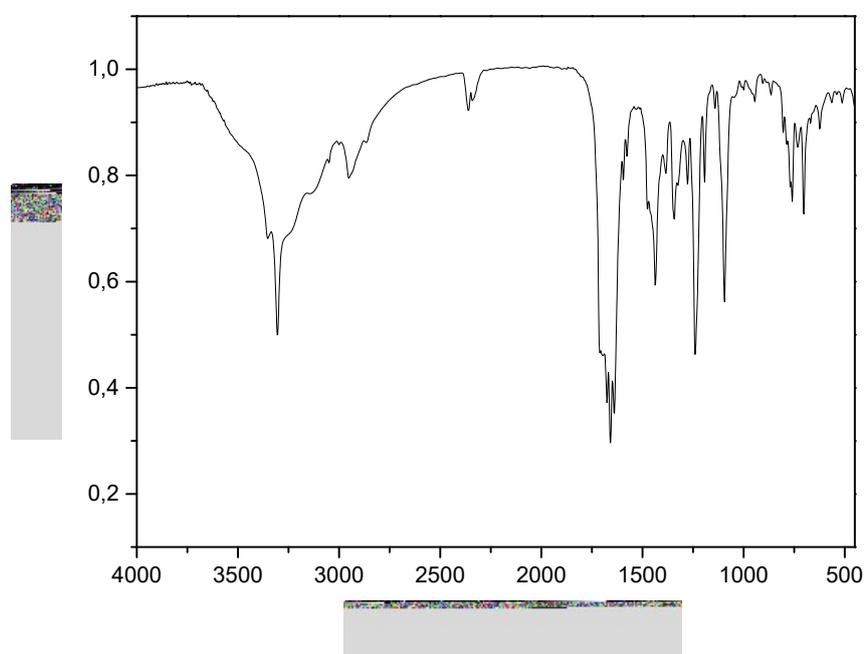


Figure S48. FT-IR (4000-400 cm^{-1} , KBr) spectrum of **7f**.

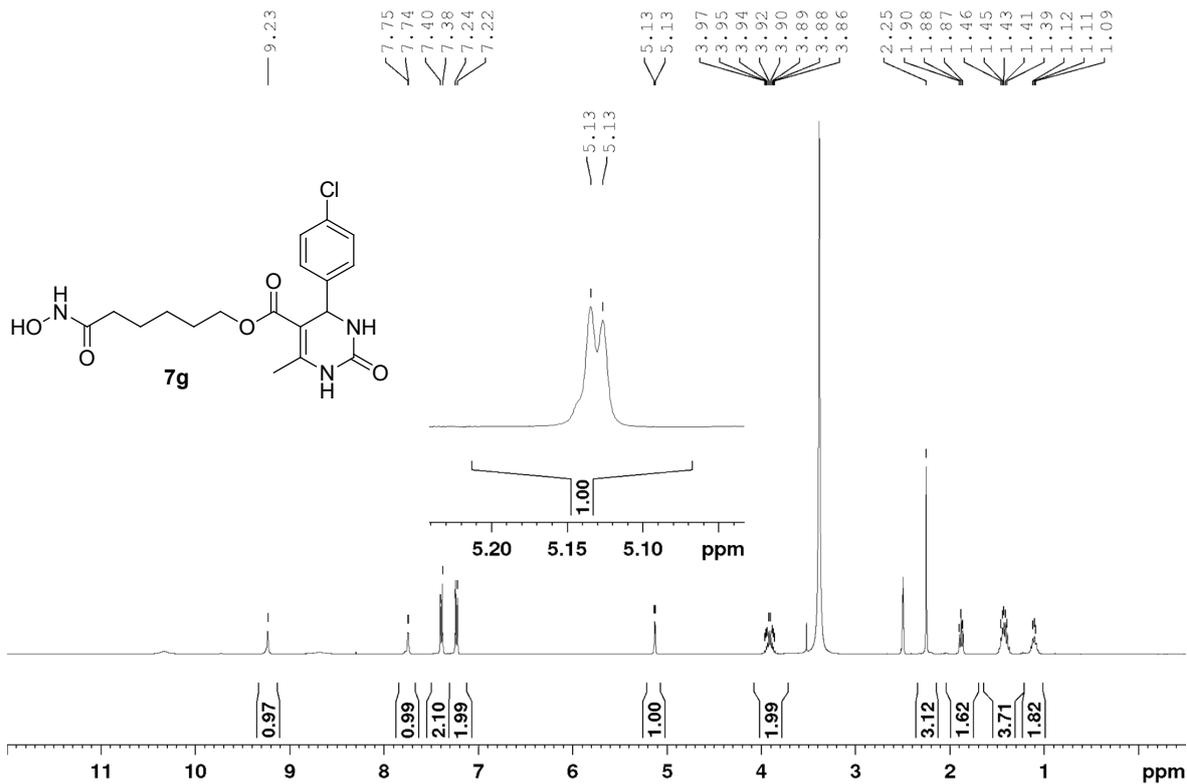


Figure S49. ^1H NMR (400 MHz, DMSO-d_6) spectrum of DHPM-SAHA **7g**.

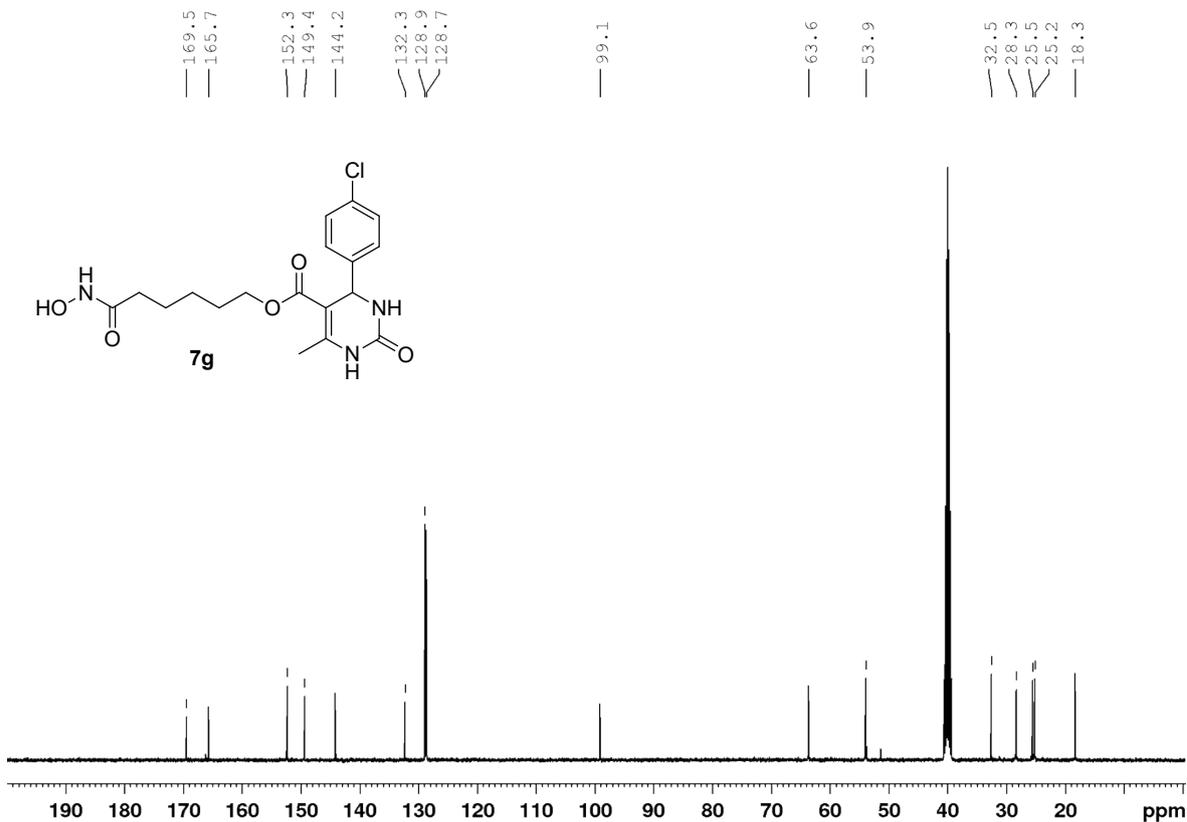


Figure S50. ^{13}C NMR (100 MHz, DMSO-d_6) spectrum of DHPM-SAHA **7g**.

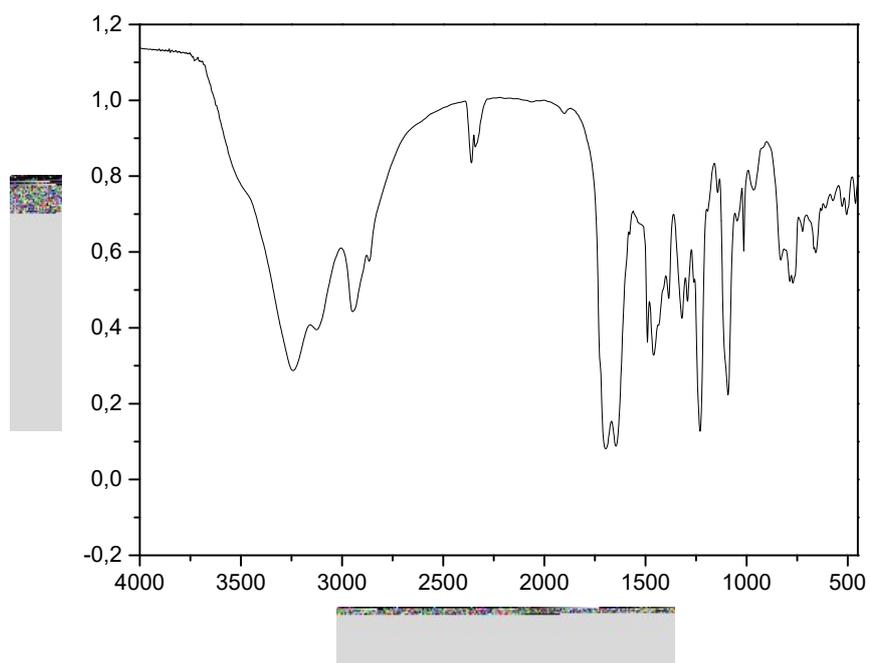


Figure S51. FT-IR (4000-400 cm^{-1} , KBr) spectrum of **7g**.

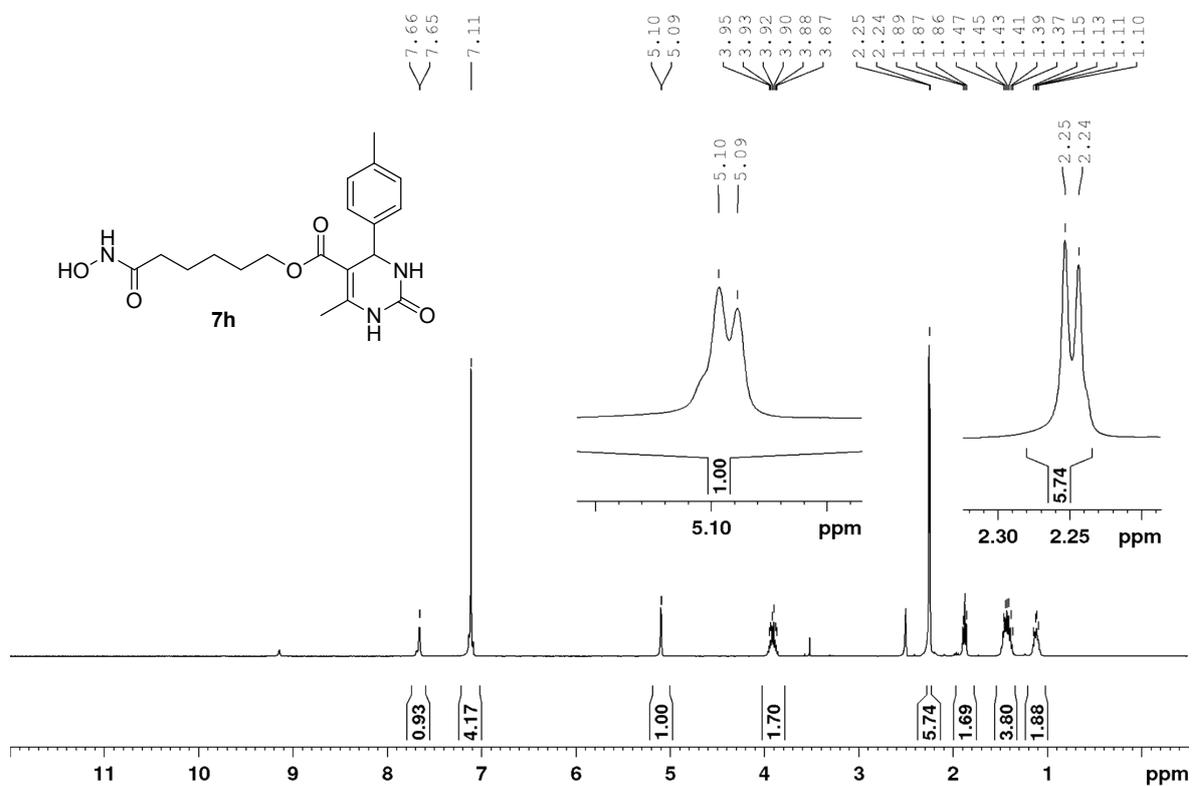


Figure S52. ^1H NMR (400 MHz, DMSO-d_6) spectrum of DHPM-SAHA **7h**.

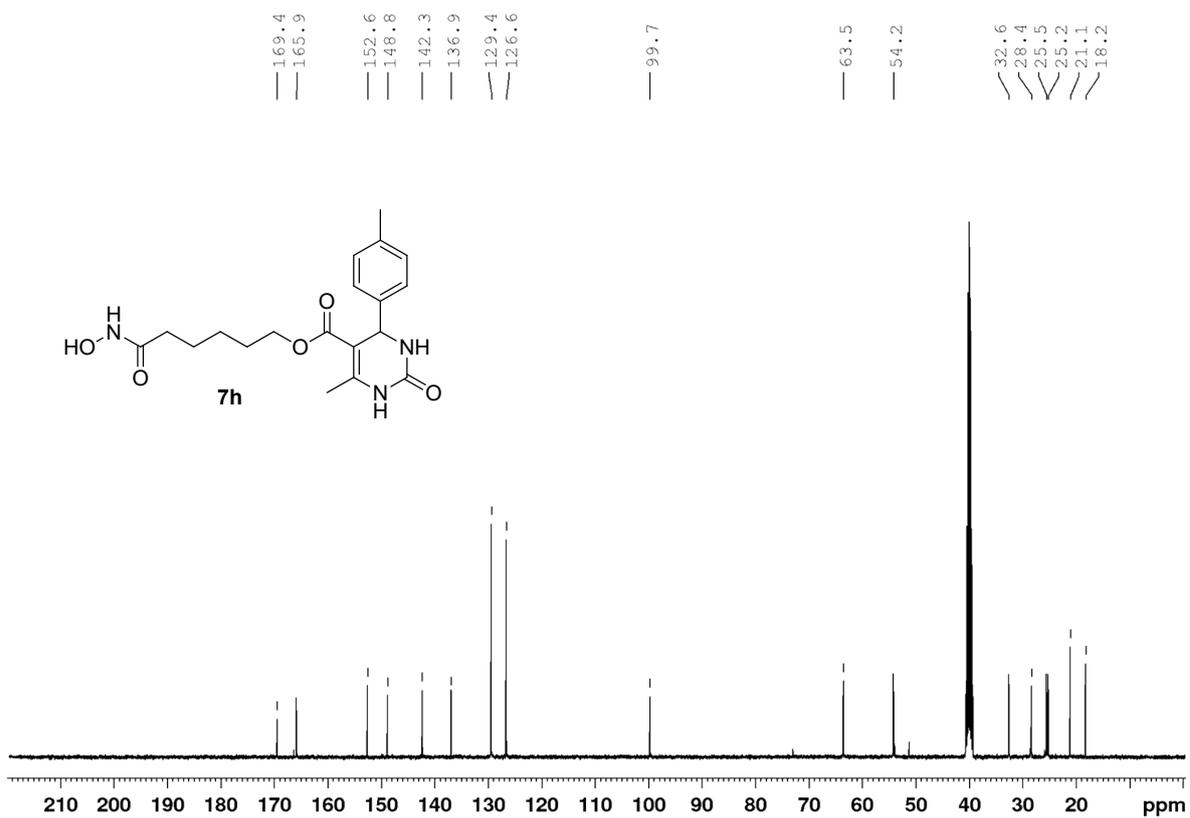


Figure S53. ^{13}C NMR (100 MHz, DMSO-d_6) spectrum of DHPM-SAHA **7h**.

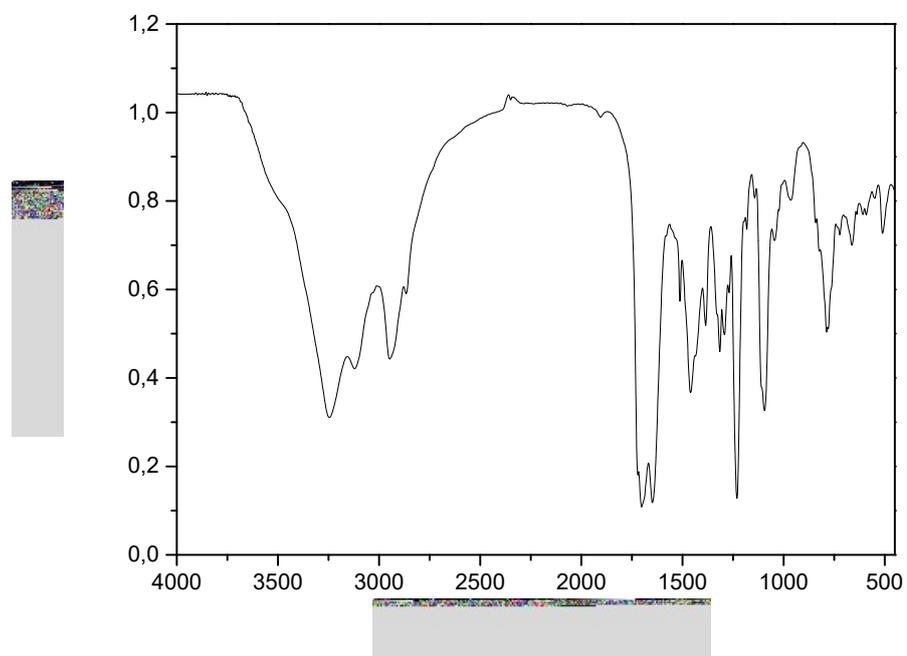


Figure S54. FT-IR (4000-400 cm^{-1} , KBr) spectrum of **7h**.

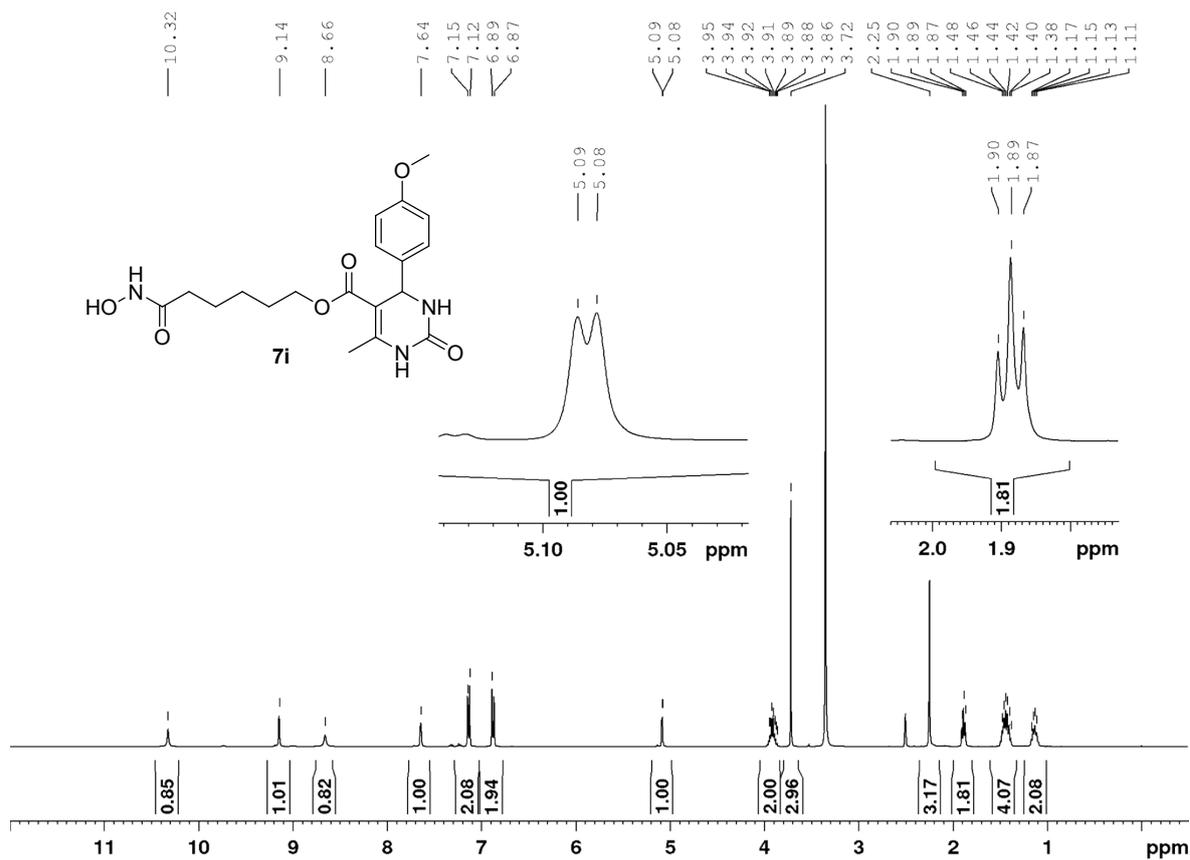


Figure S55. ¹H NMR (400 MHz, DMSO-d₆) spectrum of DHPM-SAHA **7i**.

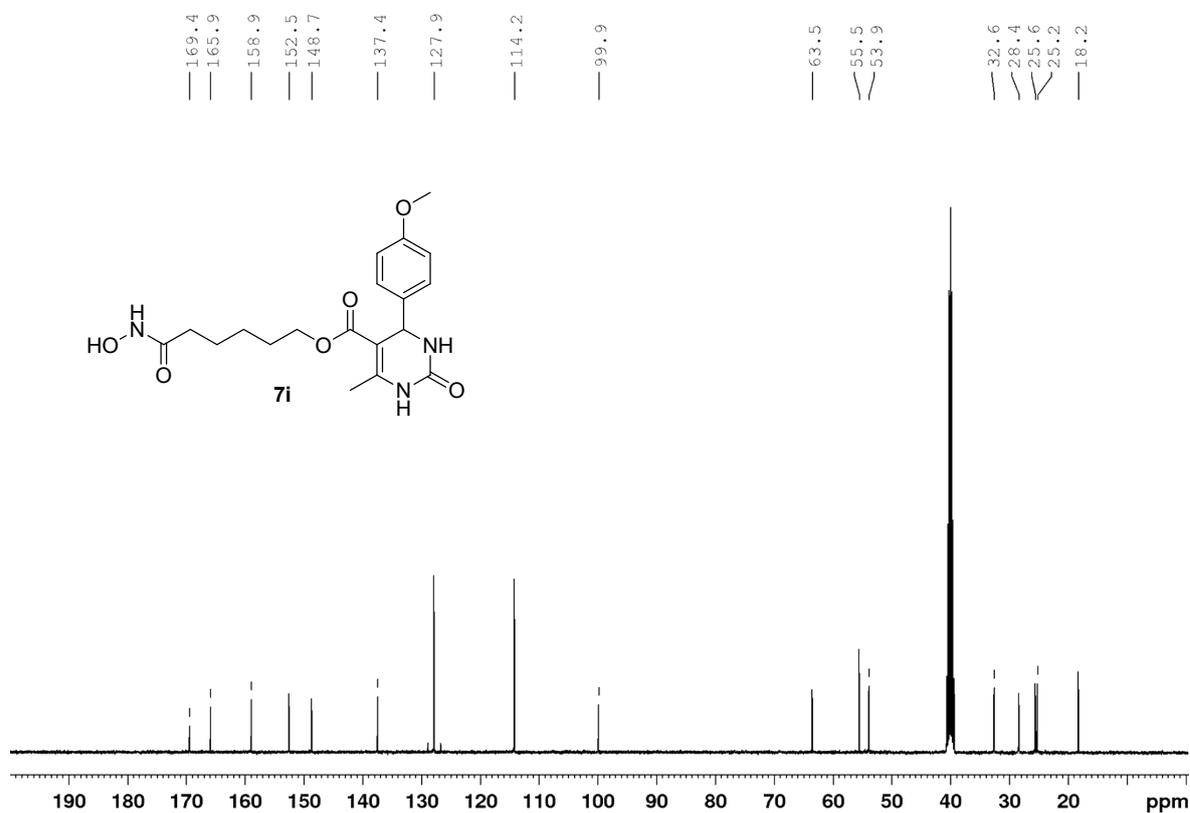


Figure S56. ¹³C NMR (100 MHz, DMSO-d₆) spectrum of DHPM-SAHA **7i**.

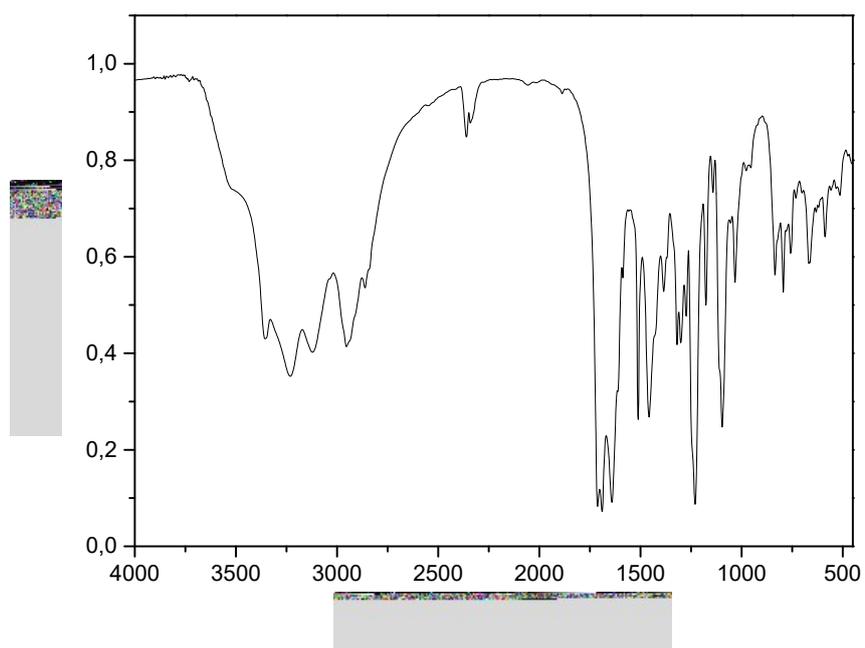


Figure S57. FT-IR (4000-400 cm^{-1} , KBr) spectrum of **7i**.

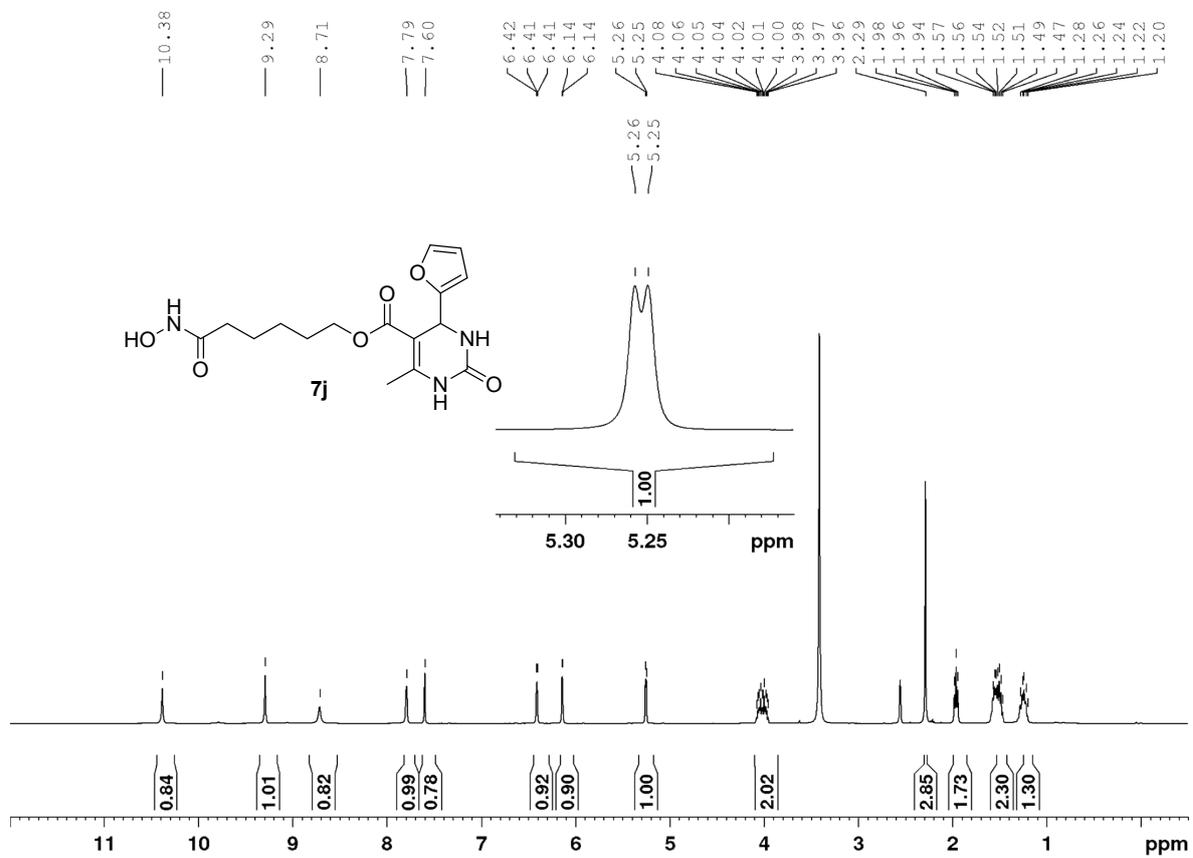


Figure S58. ^1H NMR (400 MHz, DMSO-d_6) spectrum of DHPM-SAHA **7j**.

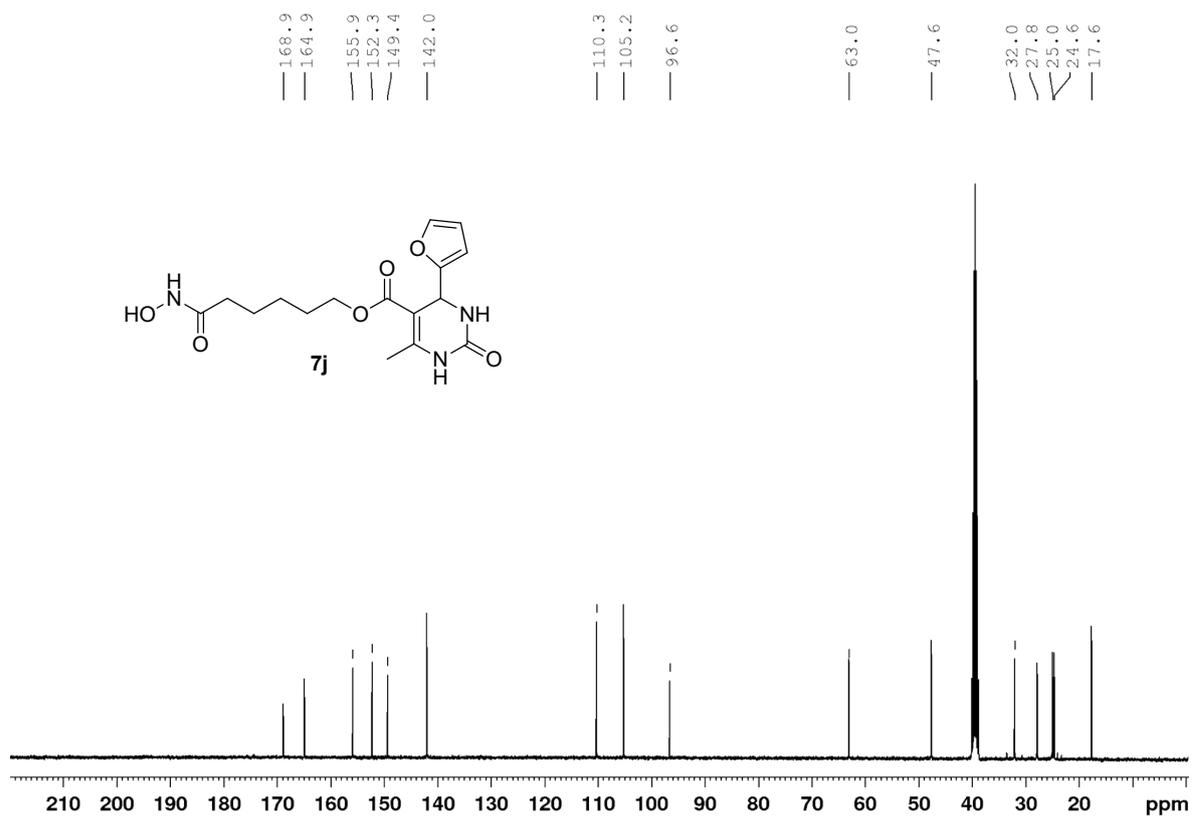


Figure S59. ¹³C NMR (100 MHz, DMSO-d₆) spectrum of DHPM-SAHA **7j**.

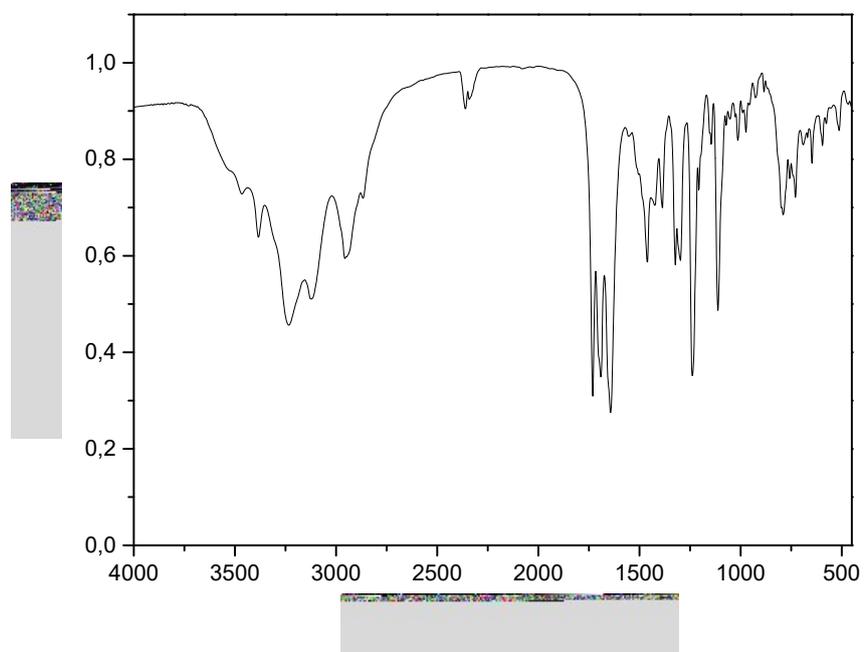


Figure S60. FT-IR (4000-400 cm⁻¹, KBr) spectrum of **7j**.