

Supplementary Material

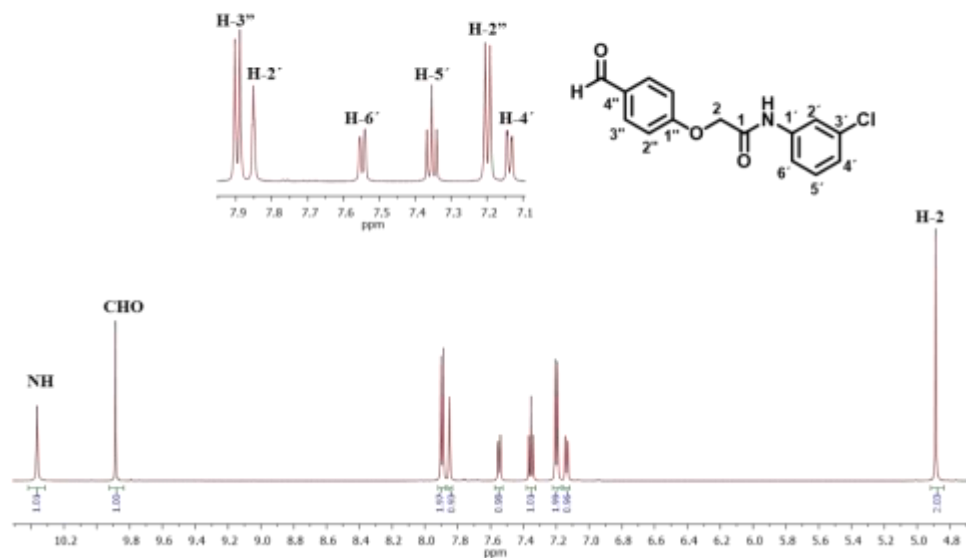


Figure S1. ^1H NMR spectrum of compound **35a** (600 MHz, DMSO-d_6).

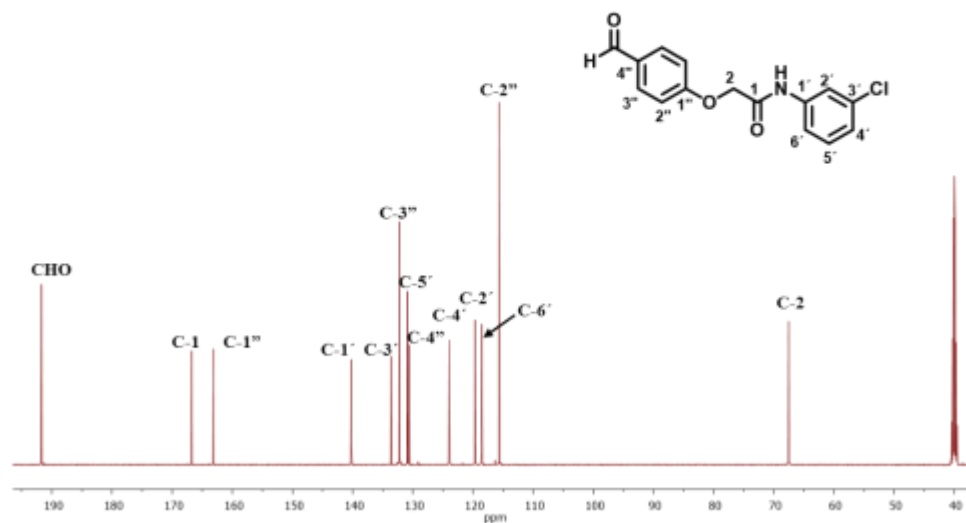


Figure S2. ^{13}C NMR spectrum of compound **35a** (150 MHz, DMSO-d_6).

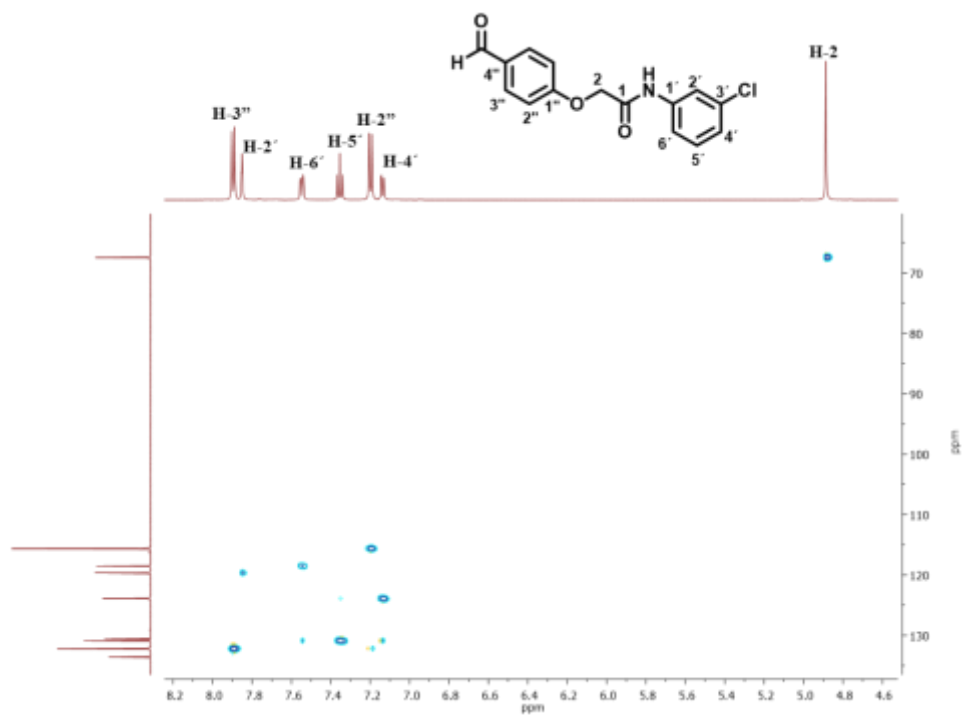


Figure S3. gHSQC spectrum of compound **35a**.

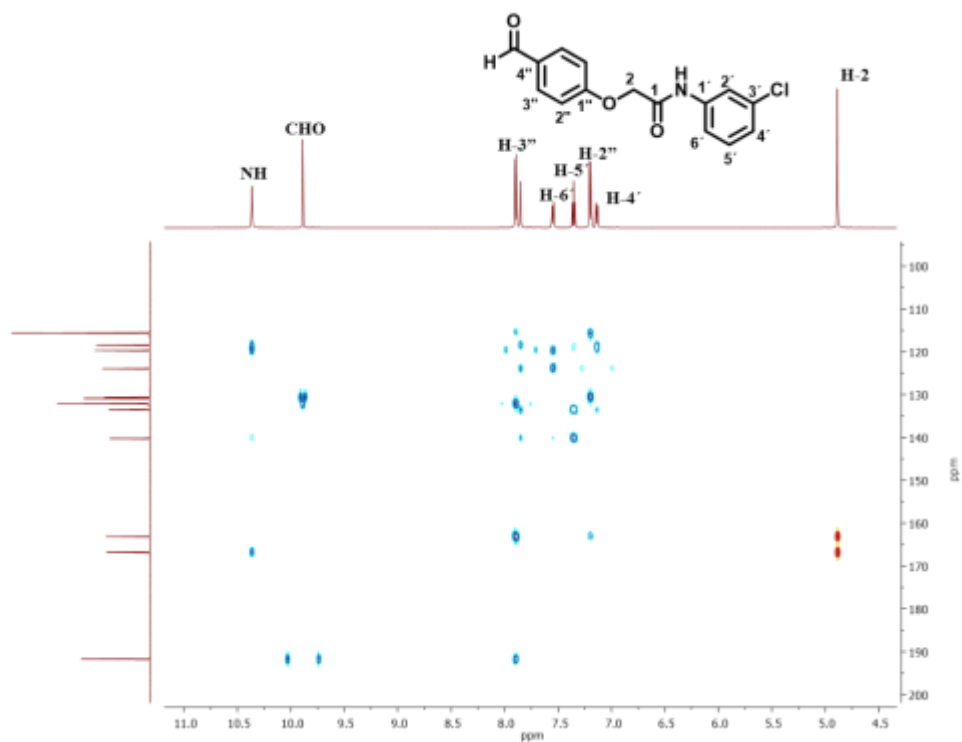


Figure S4. gHMBC spectrum of compound **35a**.

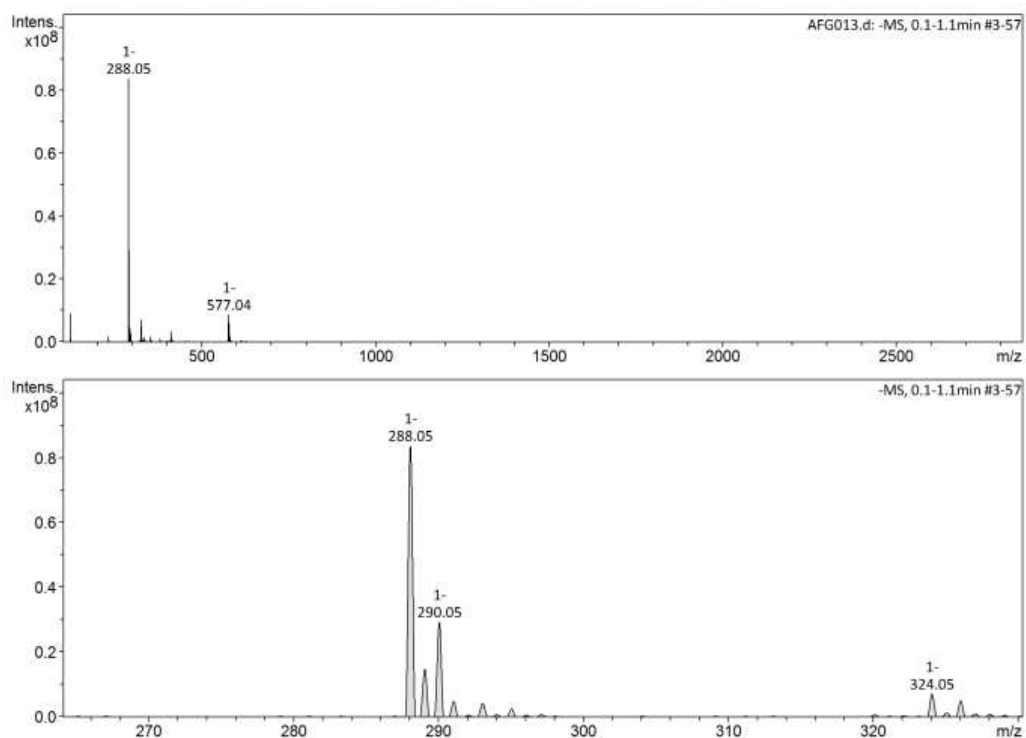


Figure S5. DIP-ESI-MS of compound **35a**.

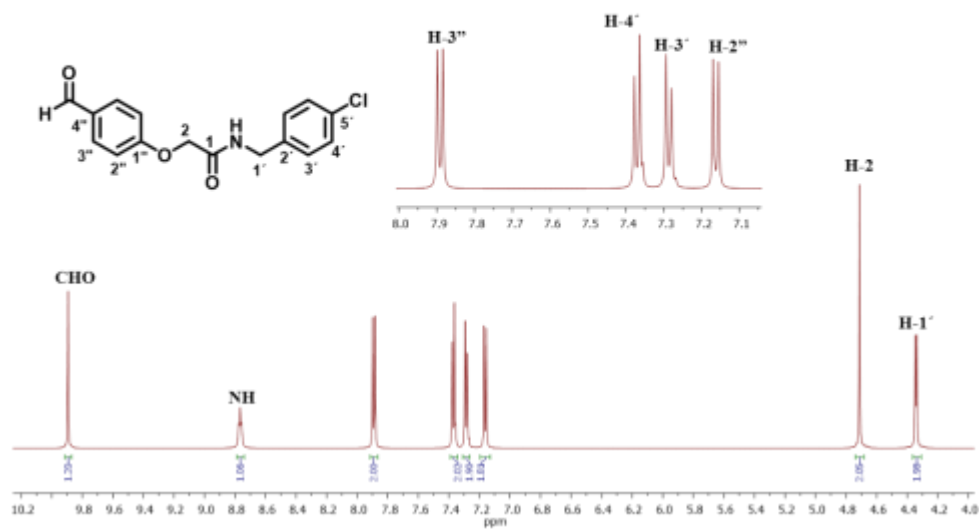


Figure S6. ¹H NMR spectrum of compound **35b** (600 MHz, DMSO-d₆).

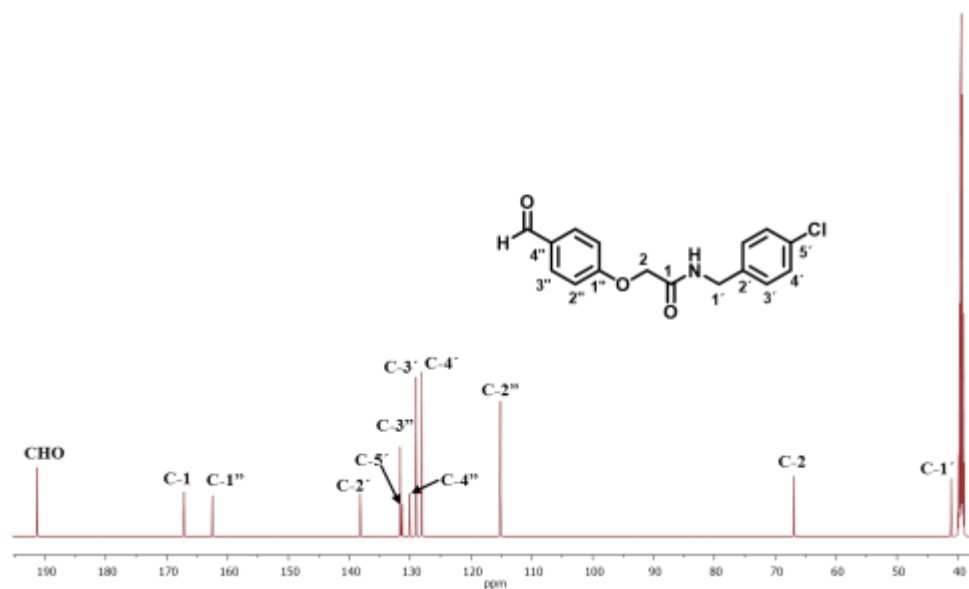


Figure S7. ¹³C NMR spectrum of compound **35b** (600 MHz, DMSO-d₆).

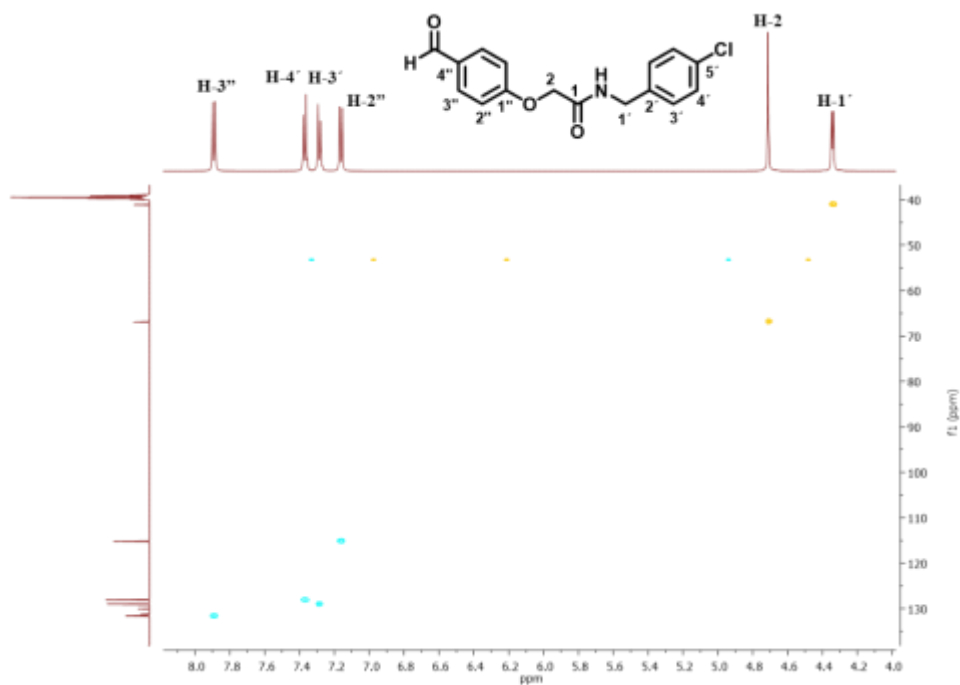


Figure S8. gHSQC spectrum of compound **35b**.

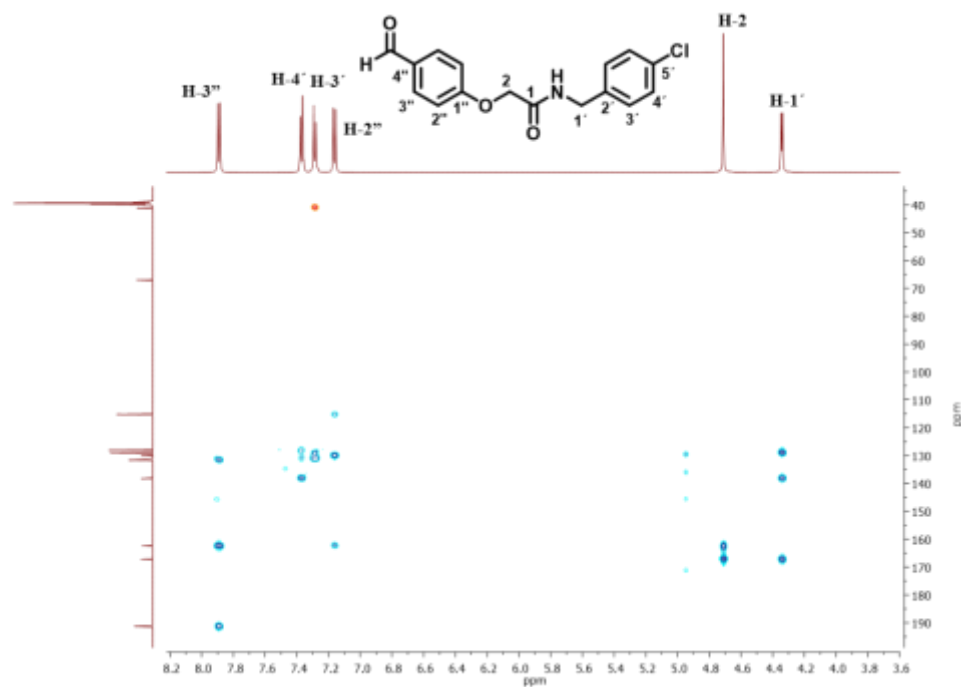


Figure S9. gHMBC spectrum of compound **35b**.

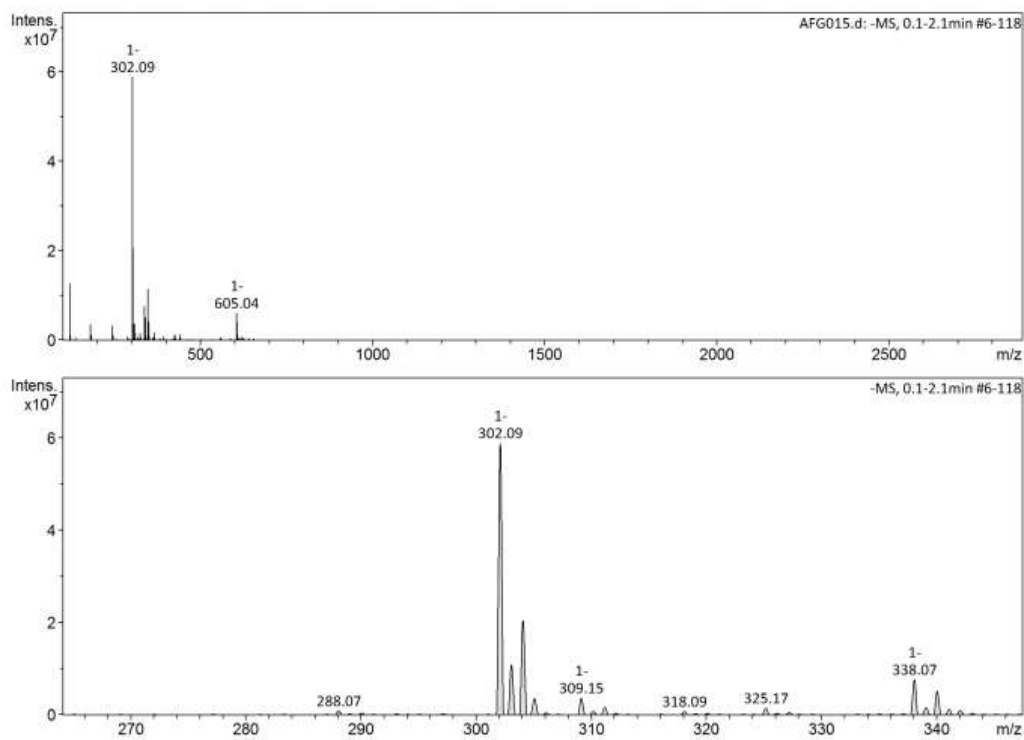


Figure S10. DIP-ESI-MS of compound **35b**.

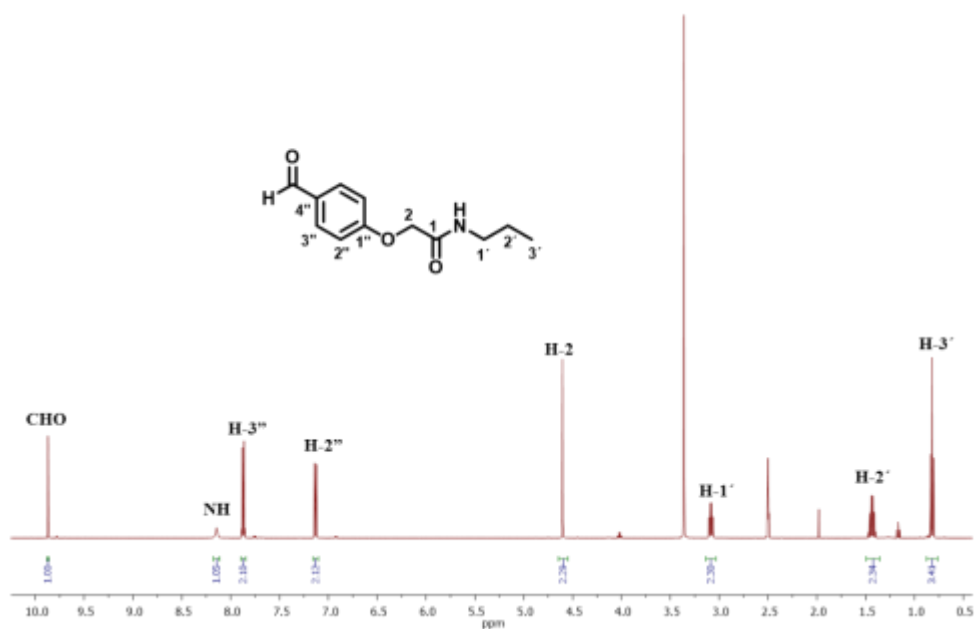


Figure S11. ¹H NMR spectrum of compound 35c (500 MHz, DMSO-d₆).

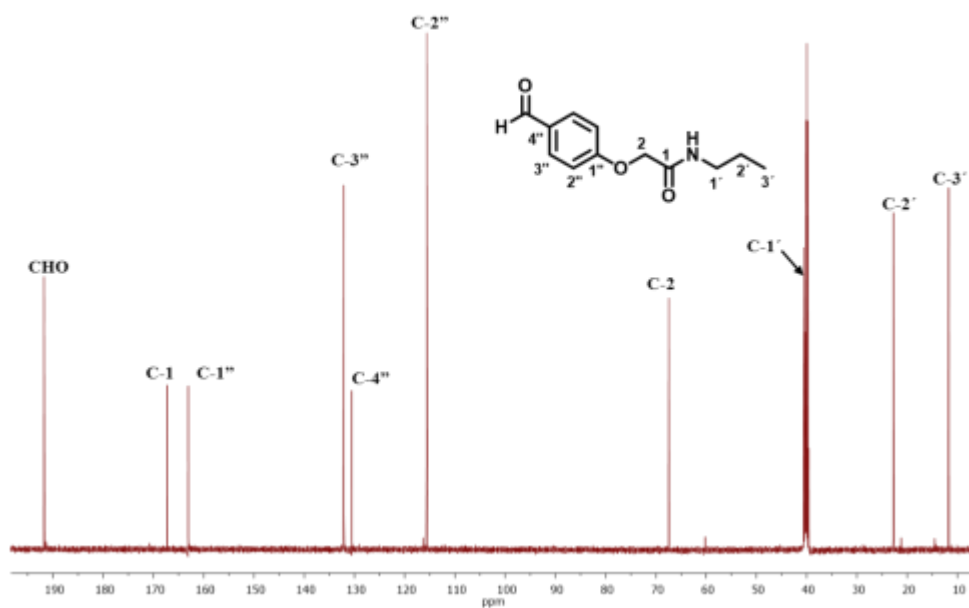


Figure S12. ¹³C NMR spectrum of compound 35c (125 MHz, DMSO-d₆).

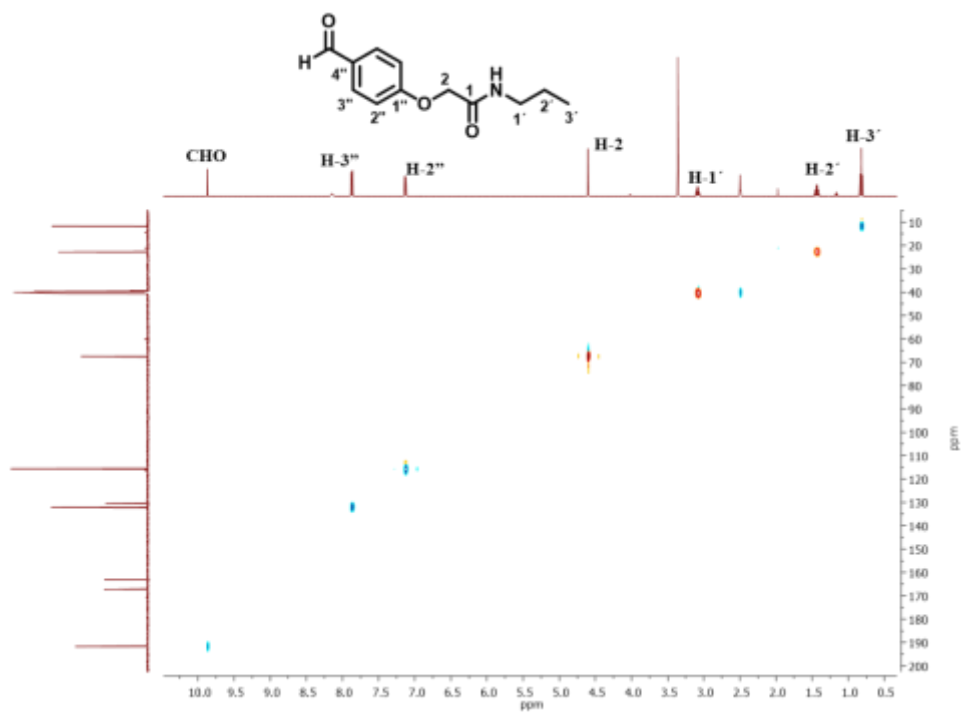


Figure S13. gHSQC spectrum of compound **35c**.

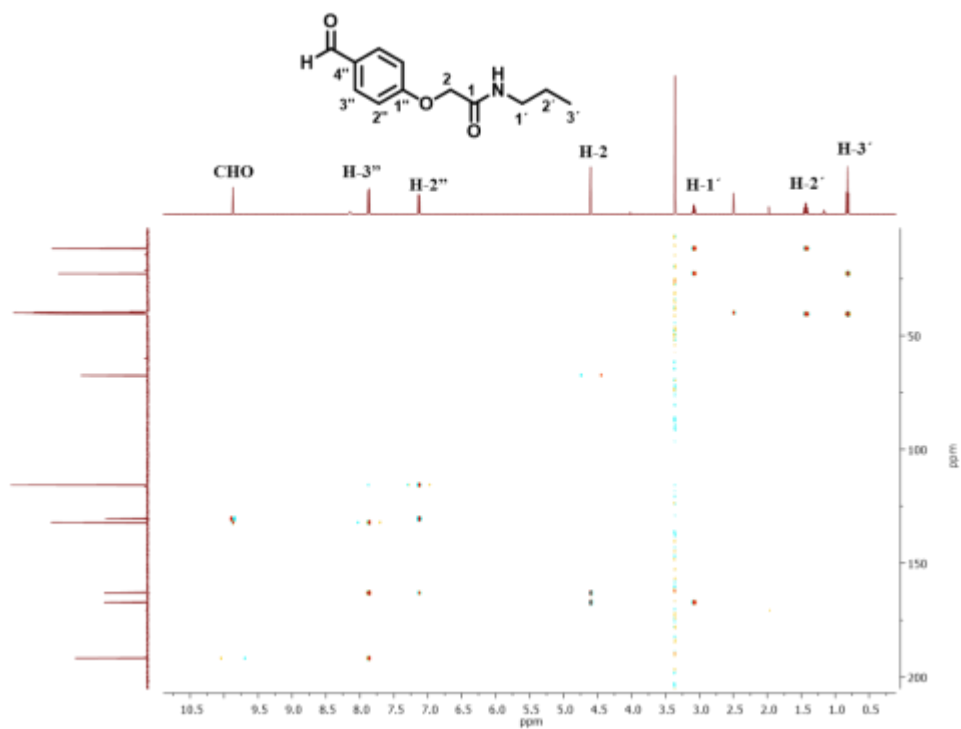


Figure S14. gHMBC spectrum of compound **35c**.

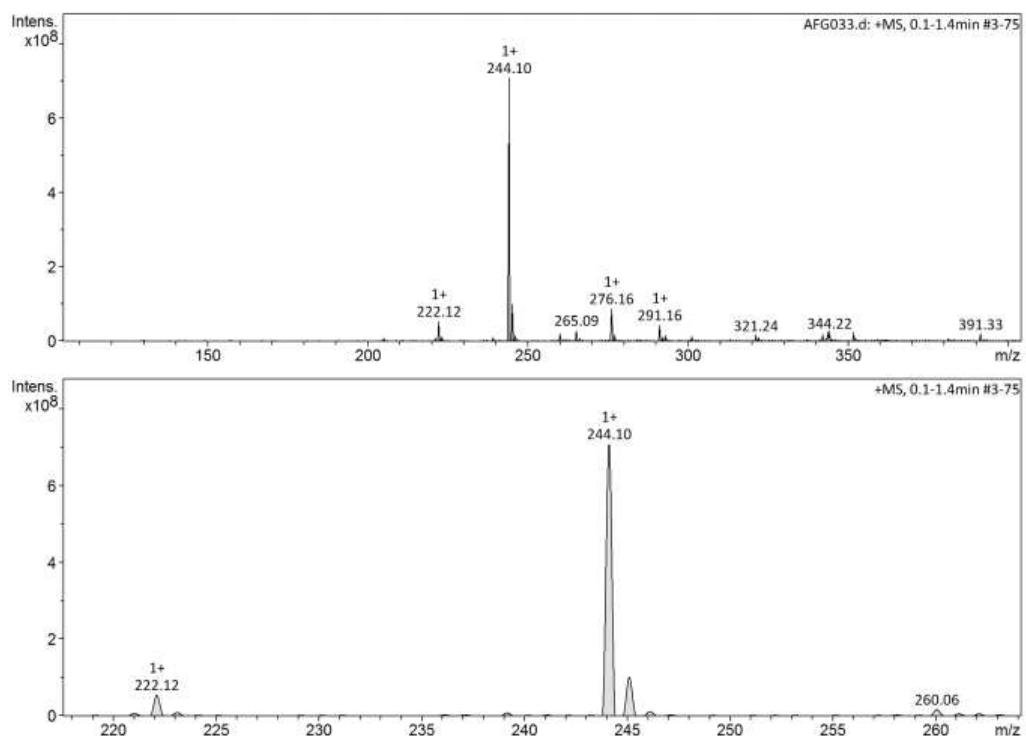


Figure S15. DIP-ESI-MS of compound 35c.

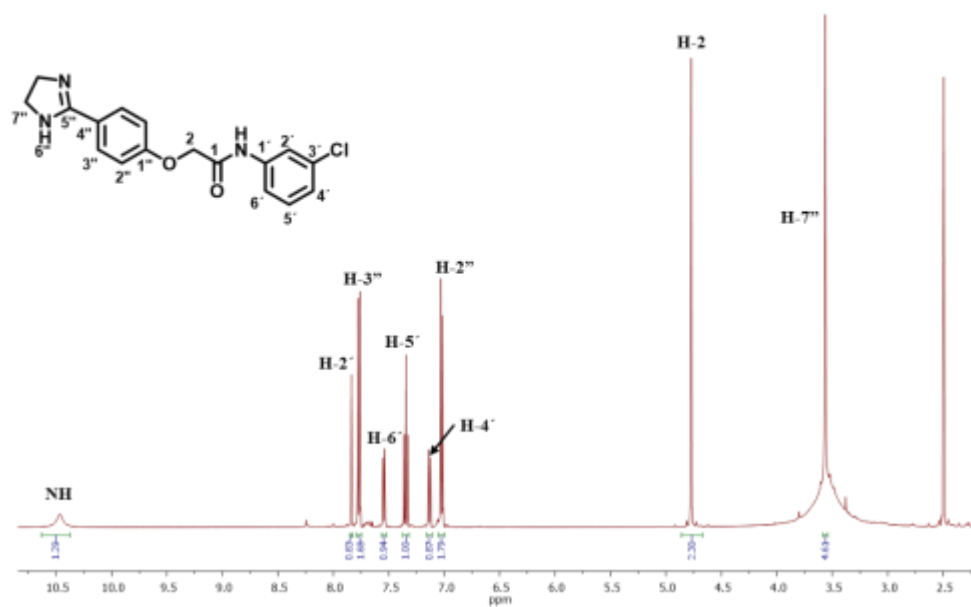


Figure S16. ^1H NMR spectrum of compound 32a (500 MHz, DMSO-d_6).

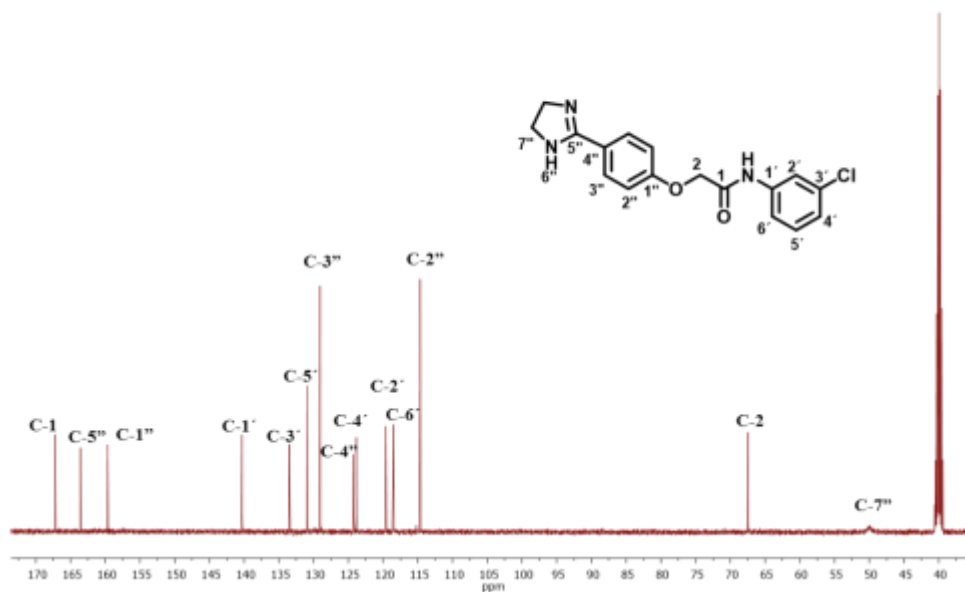


Figure S17. ¹³C NMR spectrum of compound 32a (125 MHz, DMSO-d₆).

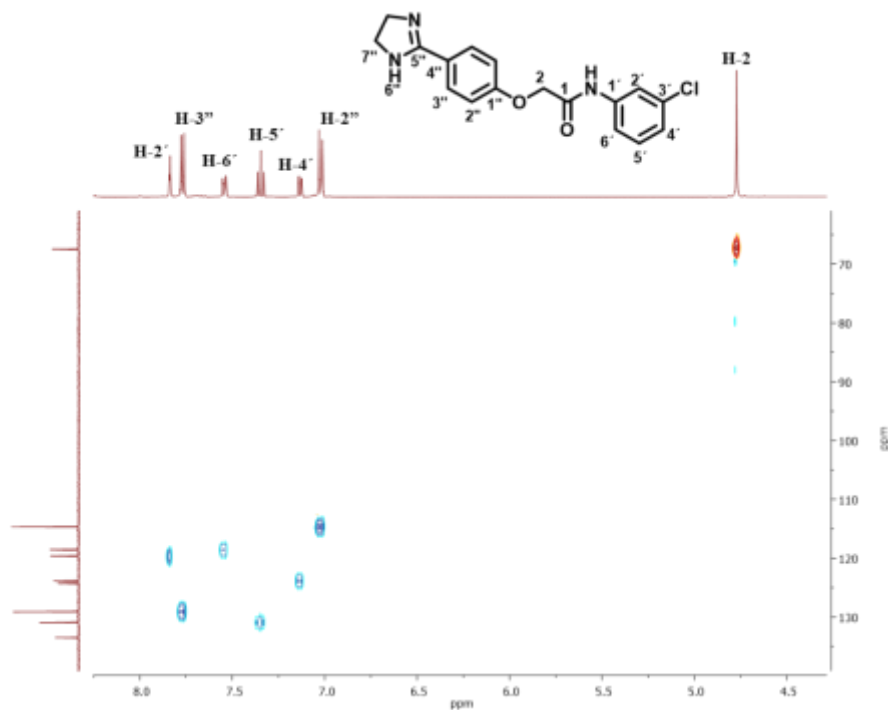


Figure S18. gHSQC spectrum of compound 32a.

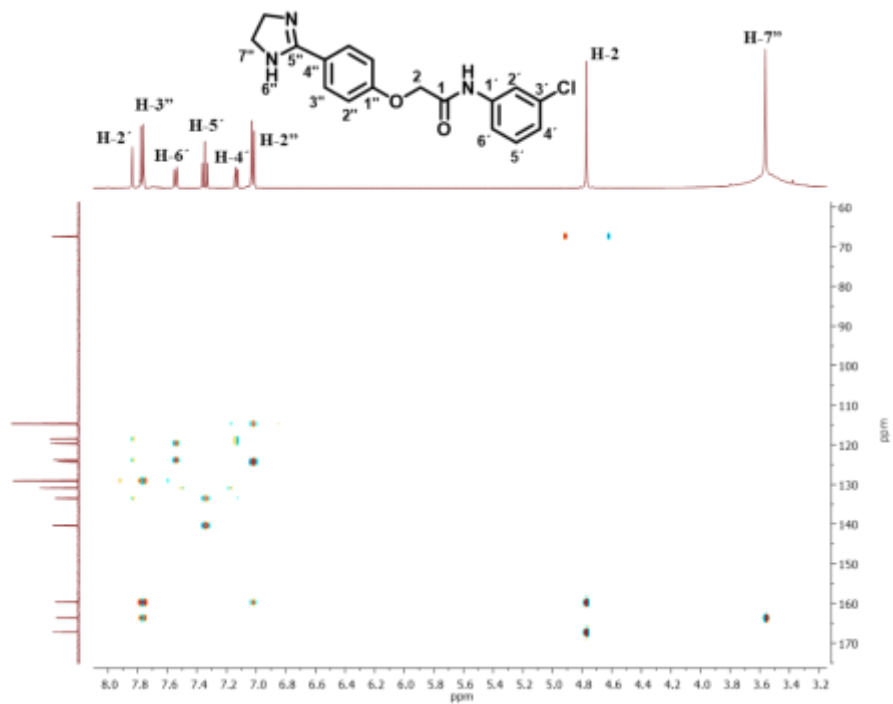


Figure S19. gHMBC spectrum of compound 32a.

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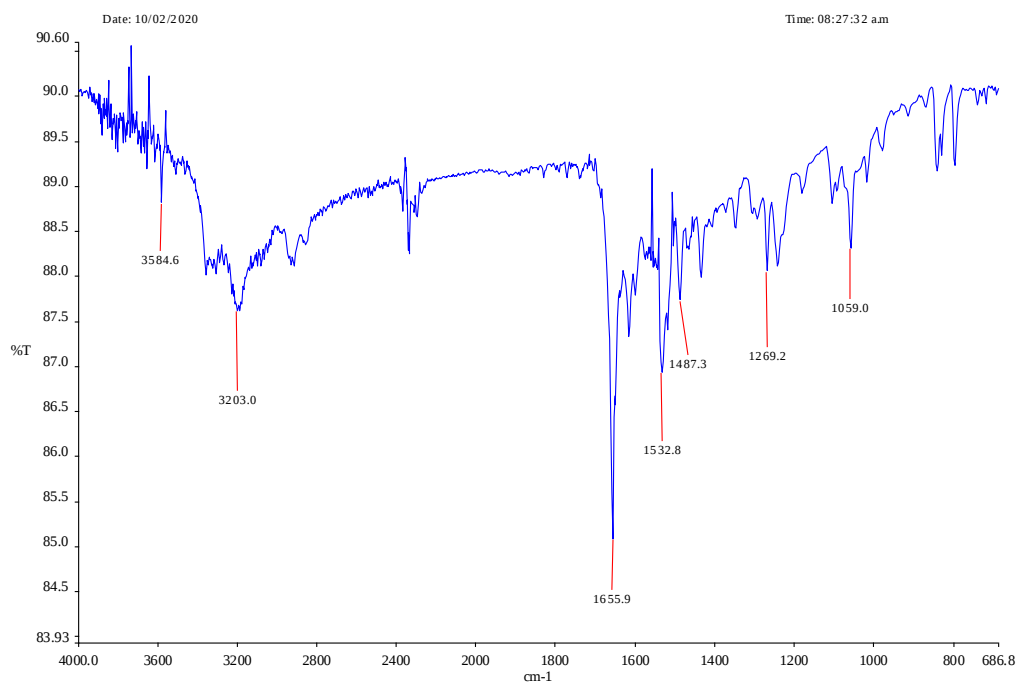


Figure S20. FT-IR spectrum of compound 32a.

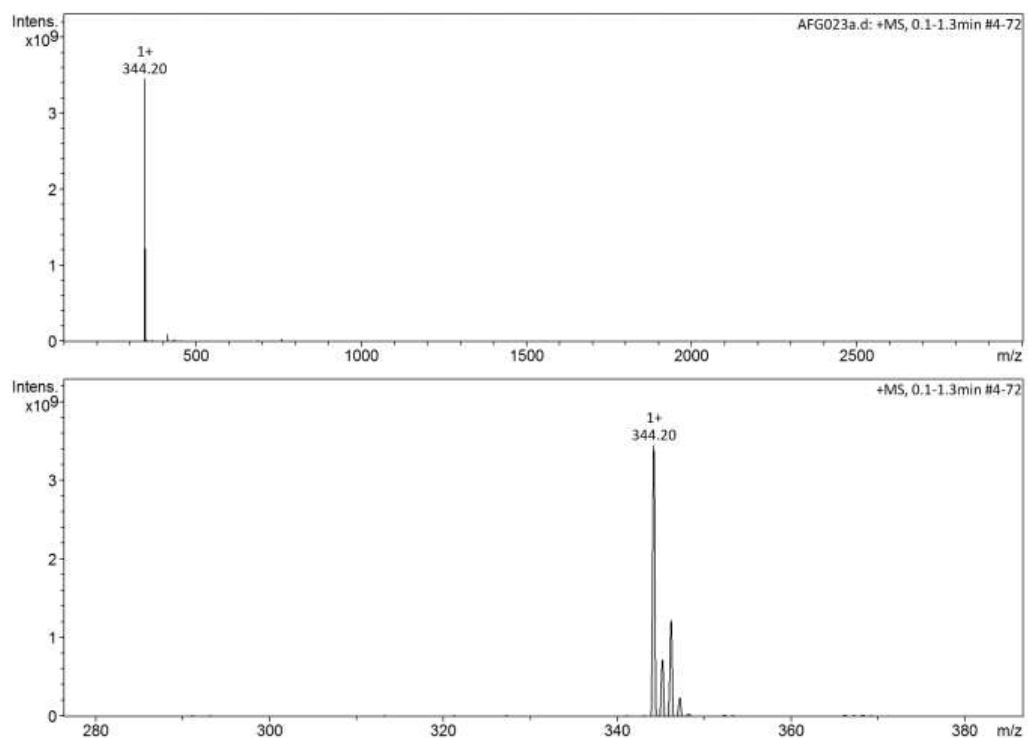


Figure S21. DIP-ESI-MS of compound **32a**.

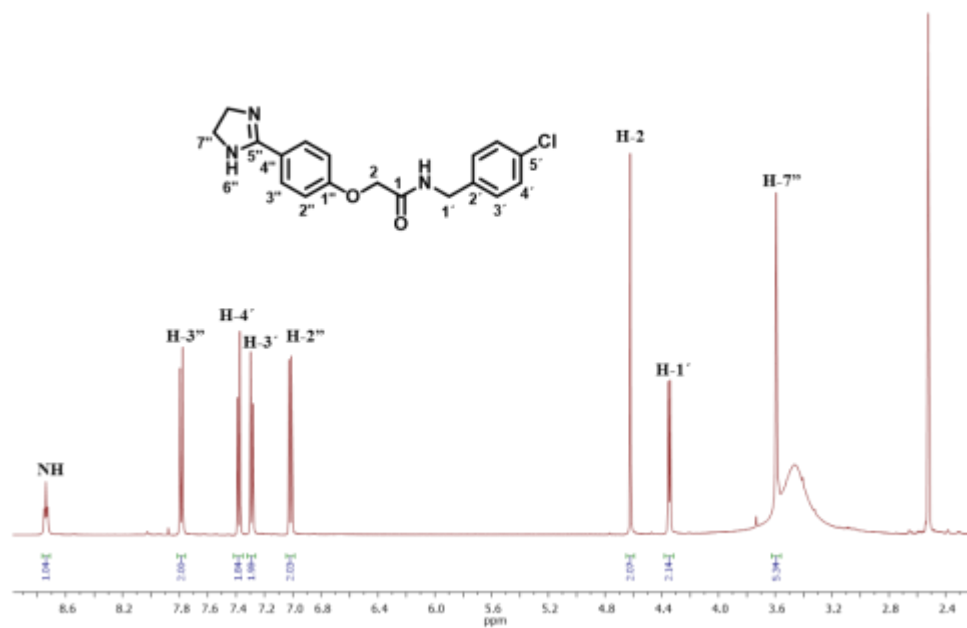


Figure S22. ^1H NMR spectrum of compound **32b** (500 MHz, DMSO- d_6).

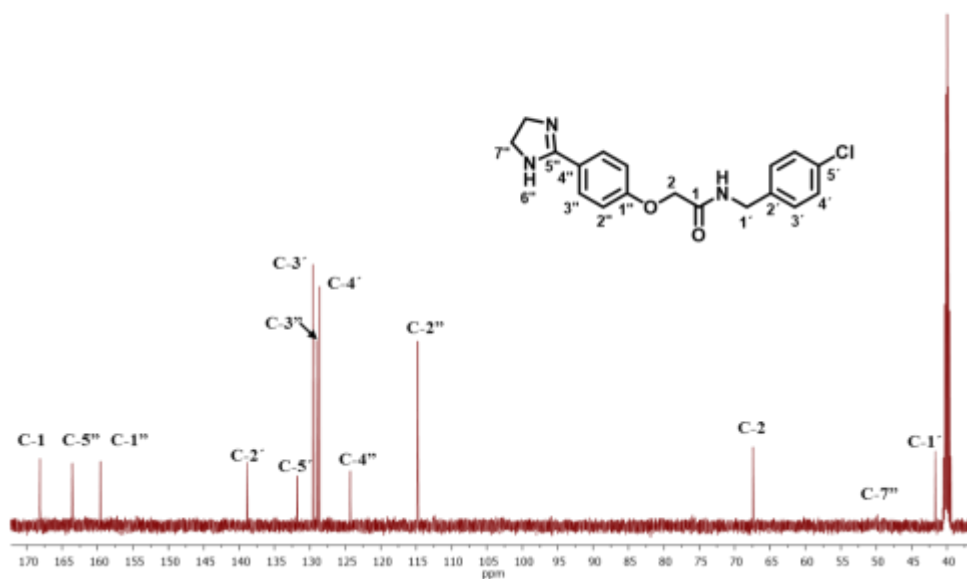


Figure S23. ^{13}C NMR spectrum of compound **32b** (125 MHz, DMSO- d_6).

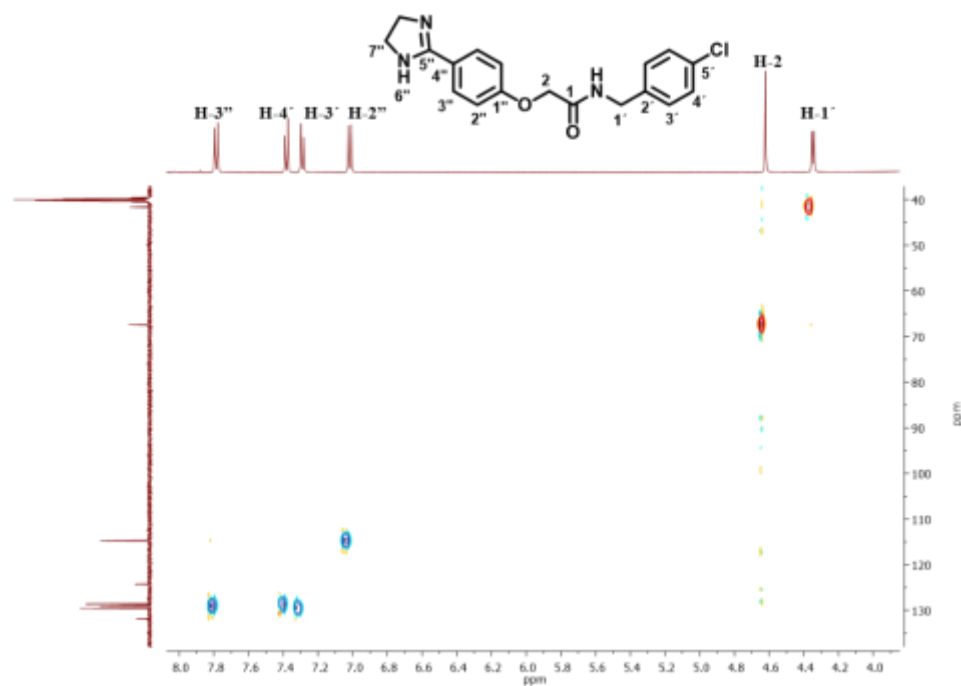


Figure S24. gHSQC spectrum of compound **32b**.

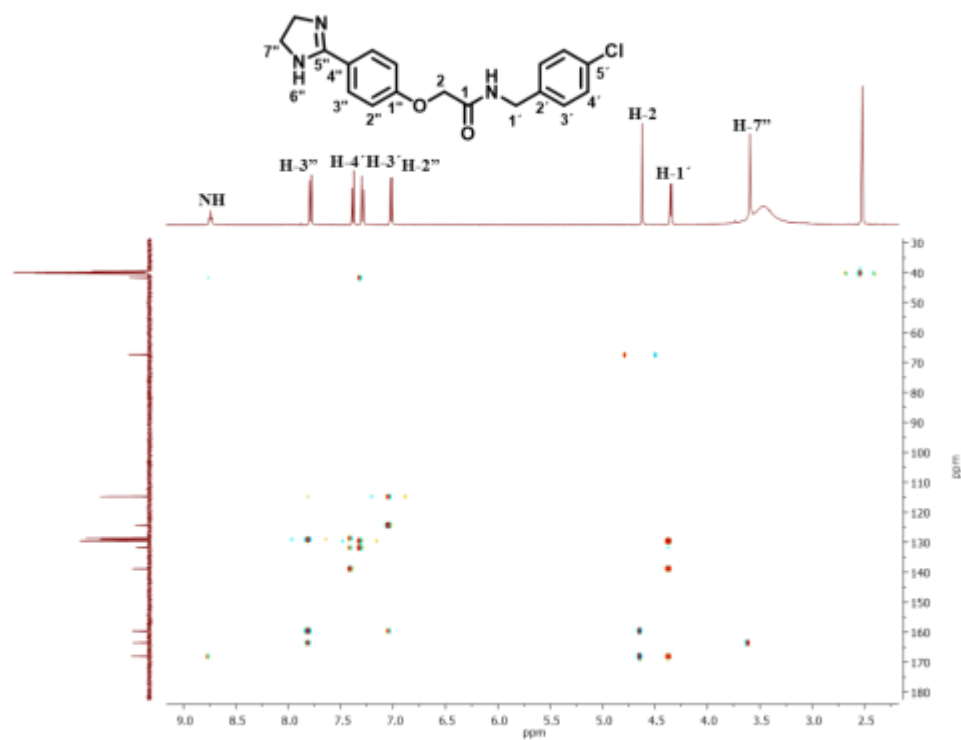


Figure S25. gHMBC spectrum of compound **32b**.

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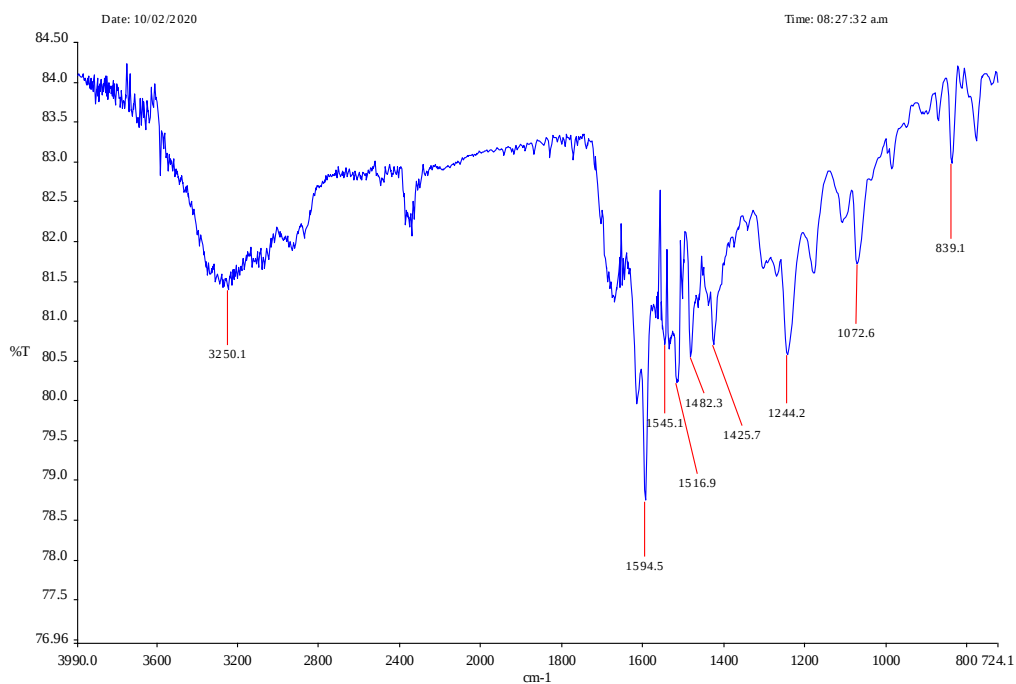


Figure S26. FT-IR spectrum of compound **32b**.

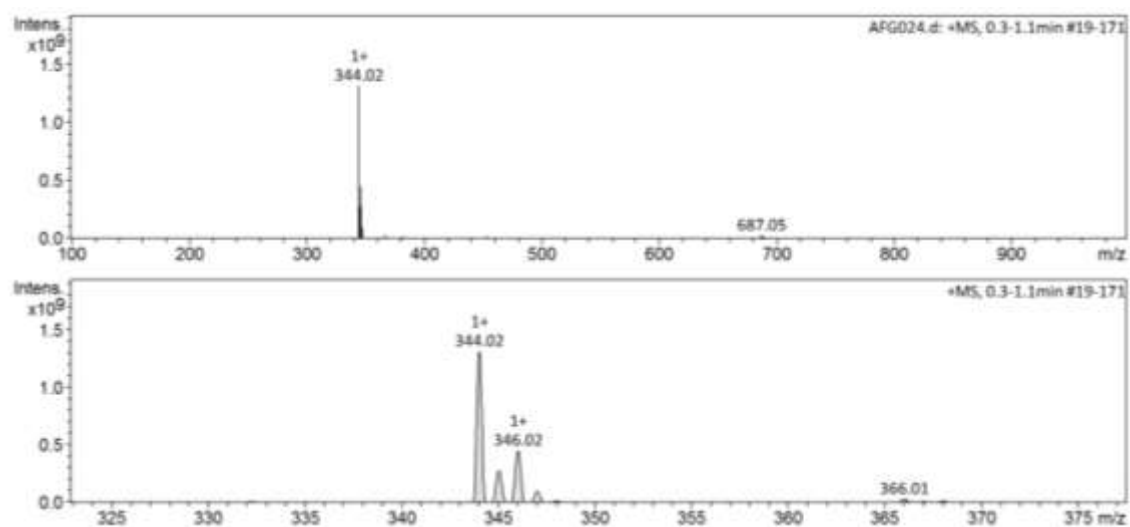


Figure S27. DIP-ESI-MS of compound **32b**.

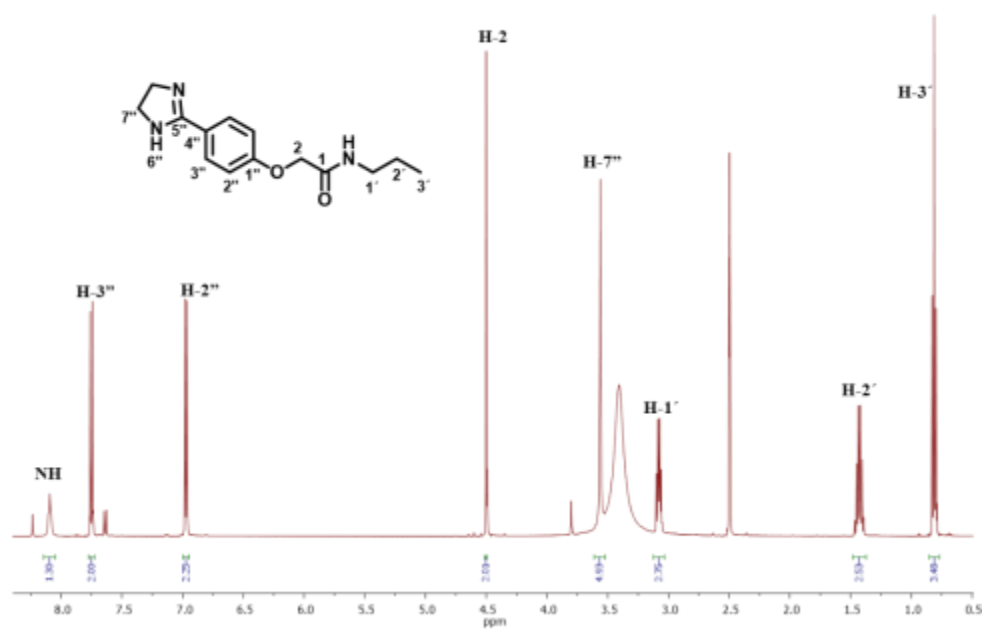
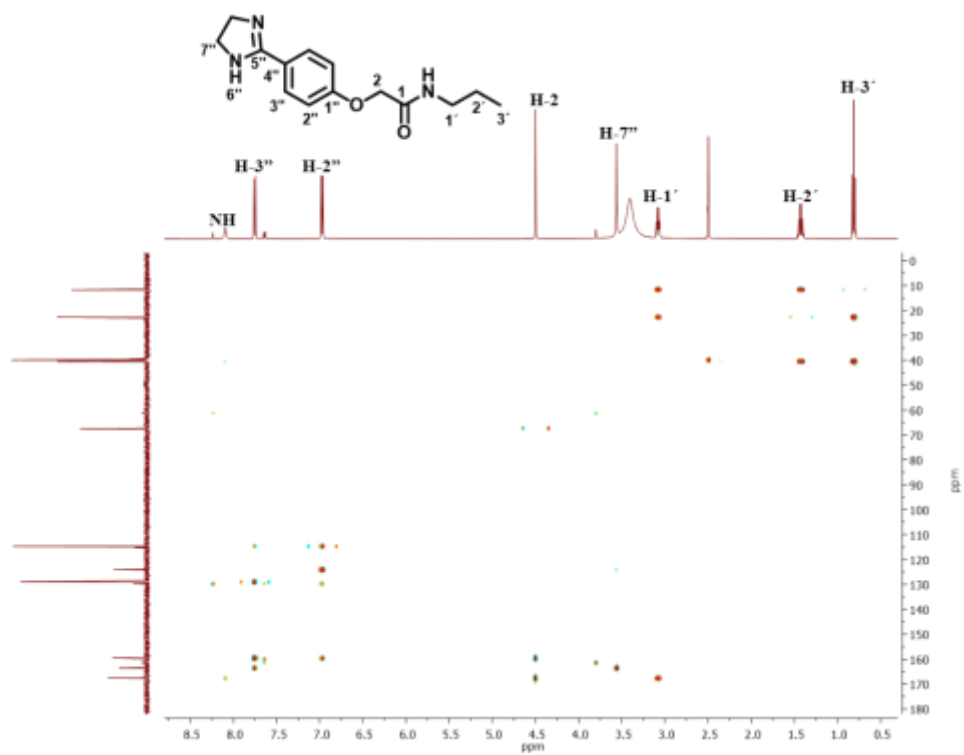
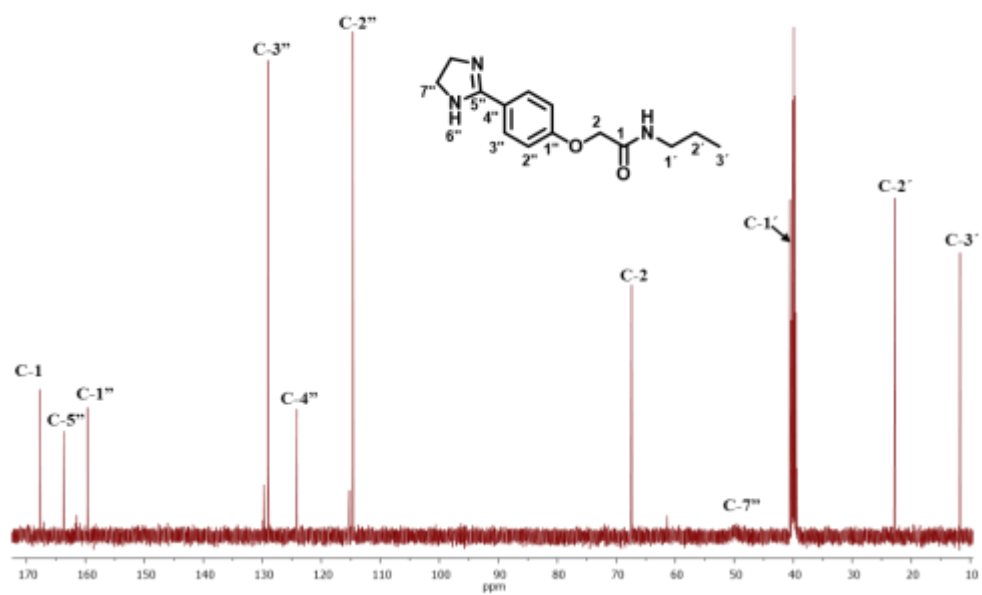


Figure S28. ^1H NMR spectrum of compound **32c** (500 MHz, DMSO-d_6).



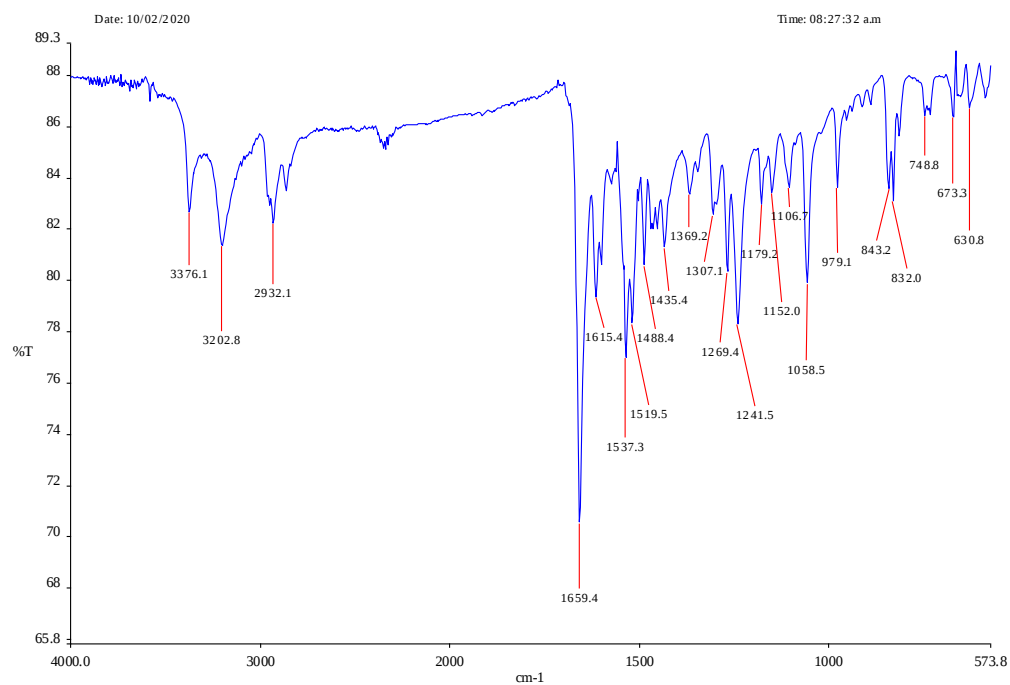


Figure S31. FT-IR spectrum of compound 32c.

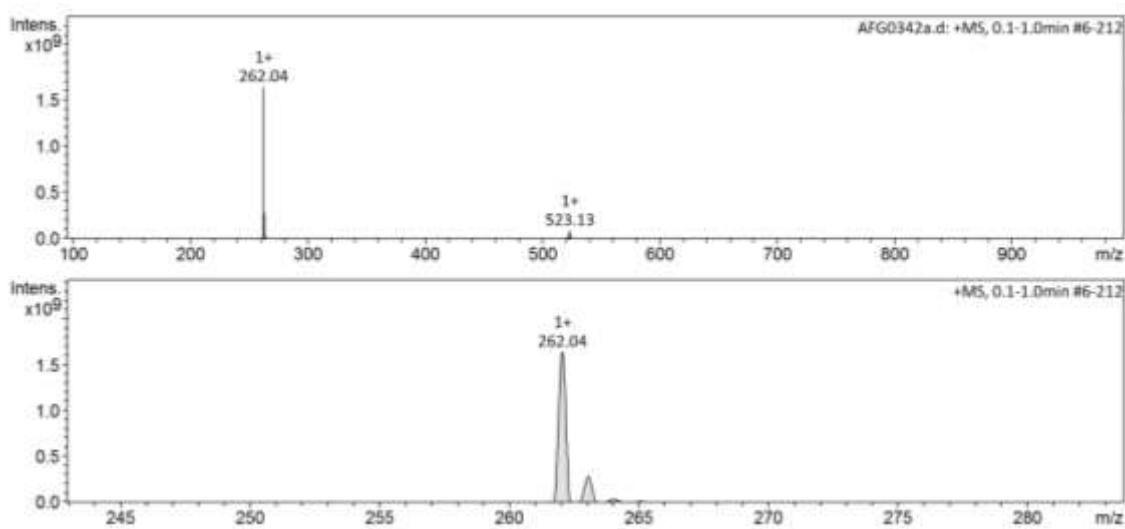


Figure S32. DIP-ESI-MS of compound 32c.

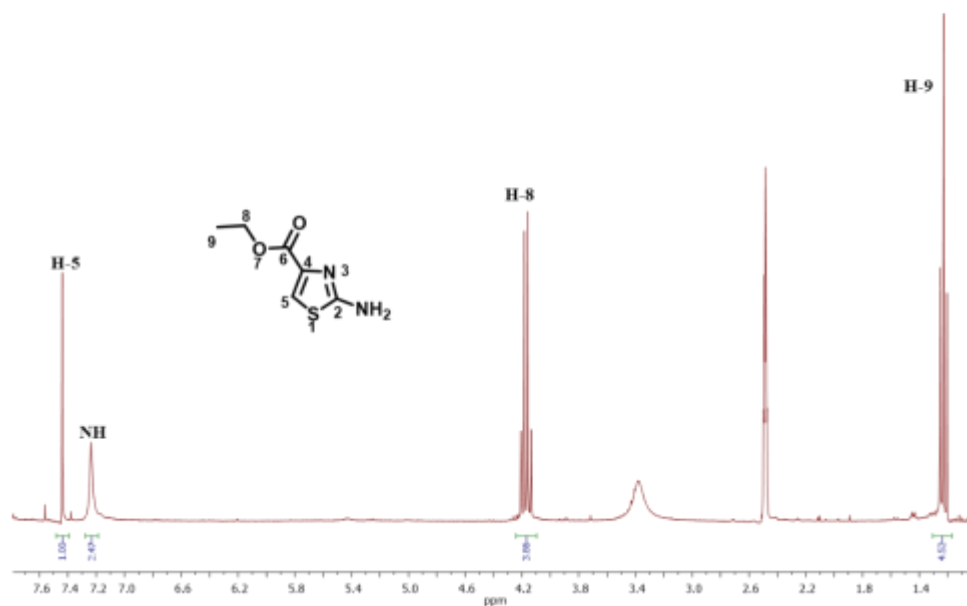


Figure S33. ¹H NMR spectrum of compound 22 (300 MHz, DMSO-d₆).

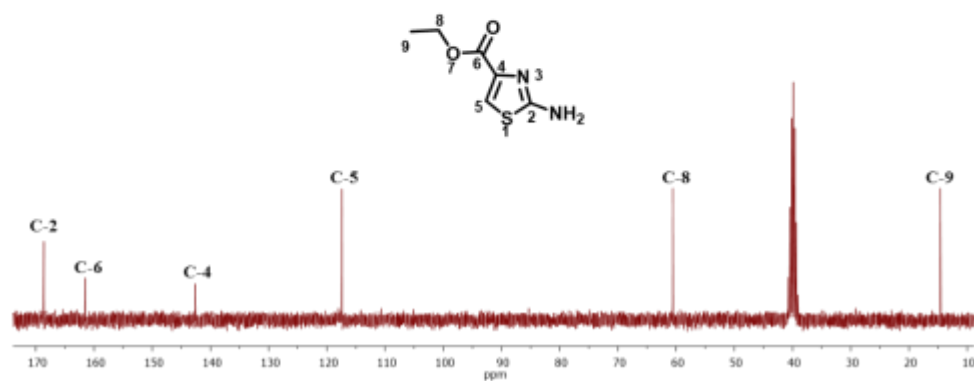


Figure S34. ¹³C NMR spectrum of compound 22 (75 MHz, DMSO-d₆).

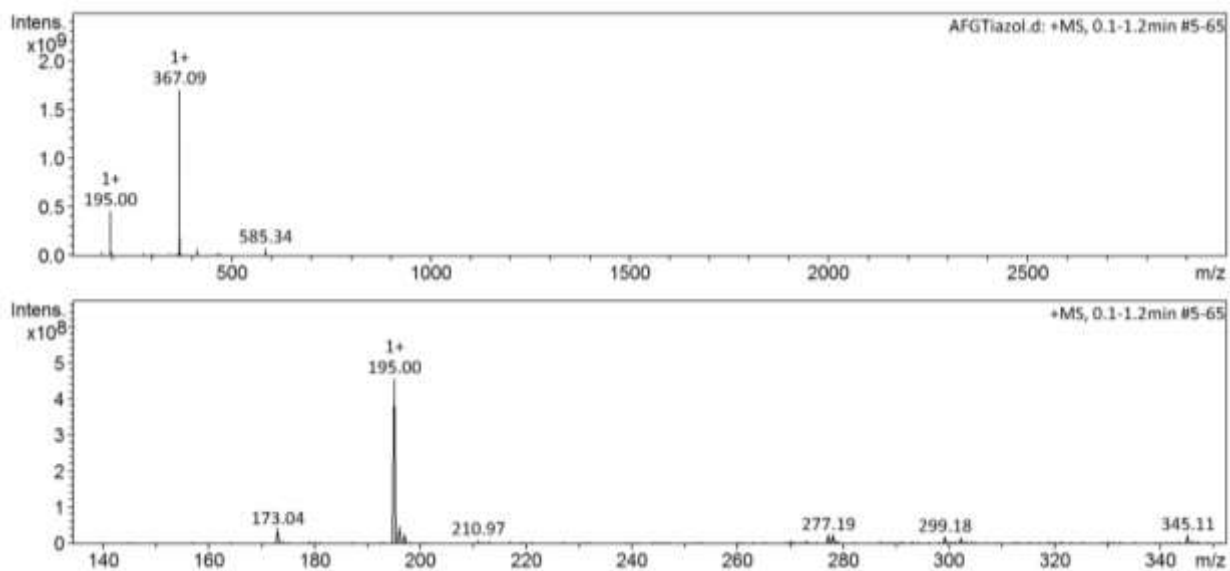


Figure S35. DIP-ESI-MS of compound 22.

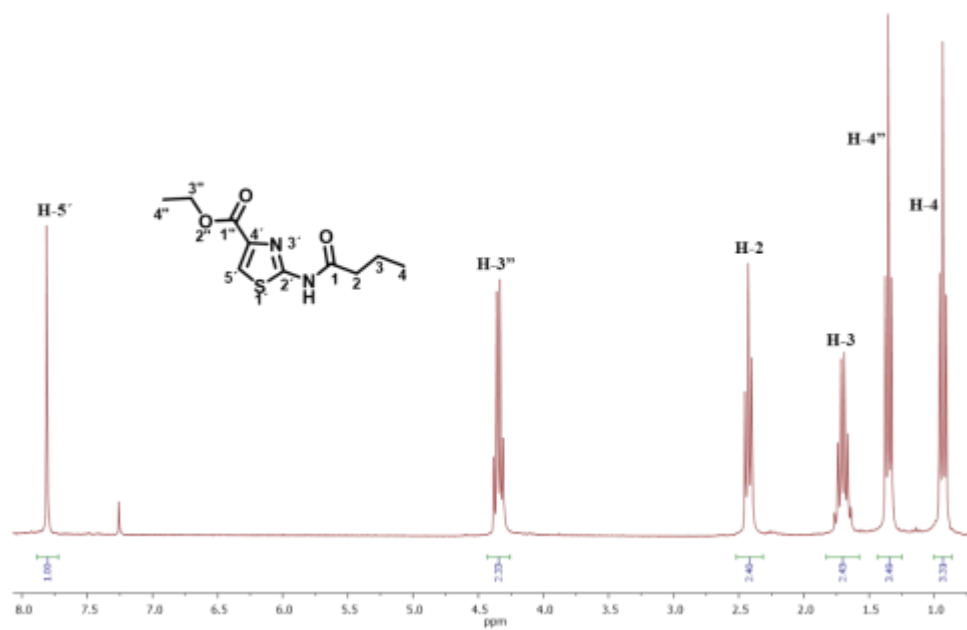


Figure S36. ^1H NMR spectrum of compound 16a (300 MHz, CDCl_3).

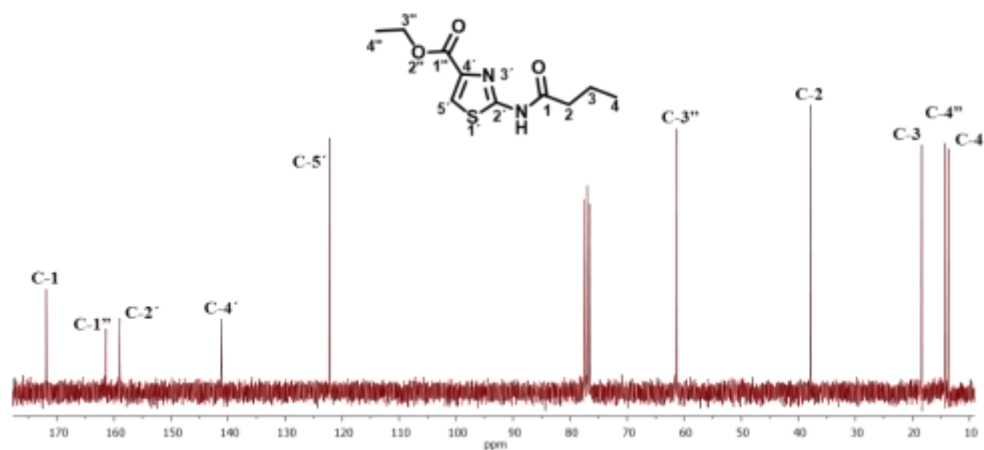


Figure S37. ¹³C NMR spectrum of compound **16a** (75 MHz, CDCl₃).

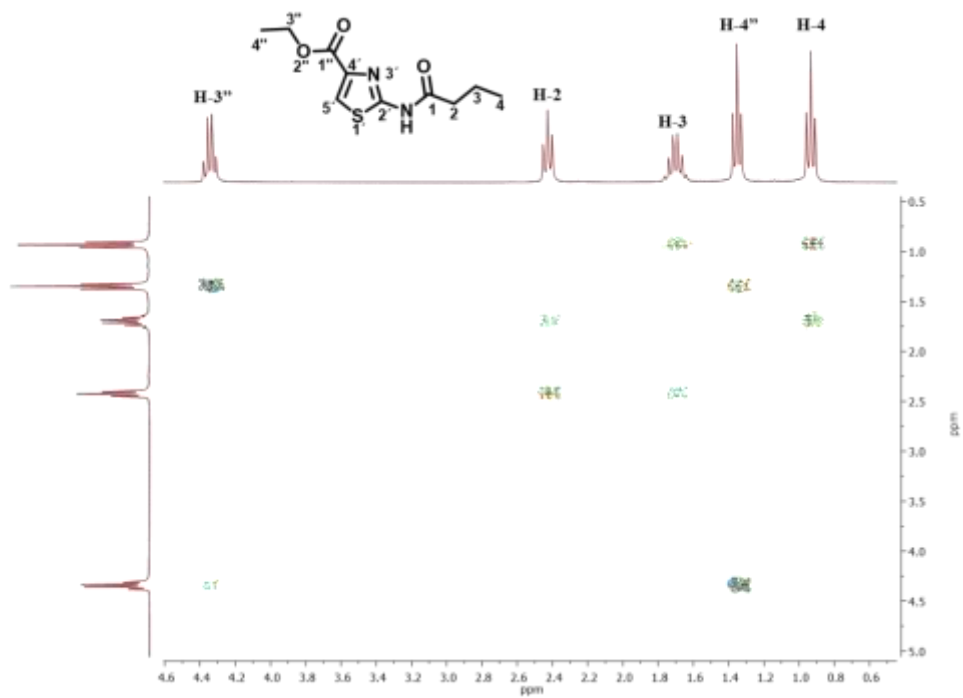


Figure S38. gCOSY spectrum of compound **16a**.

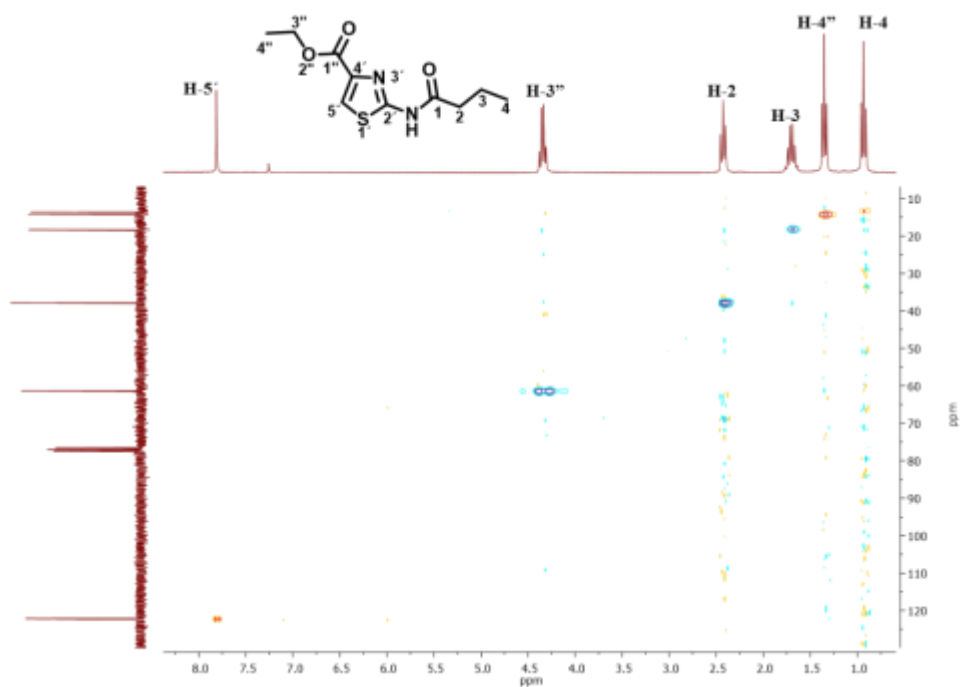


Figure S39. gHSQC spectrum of compound **16a**.

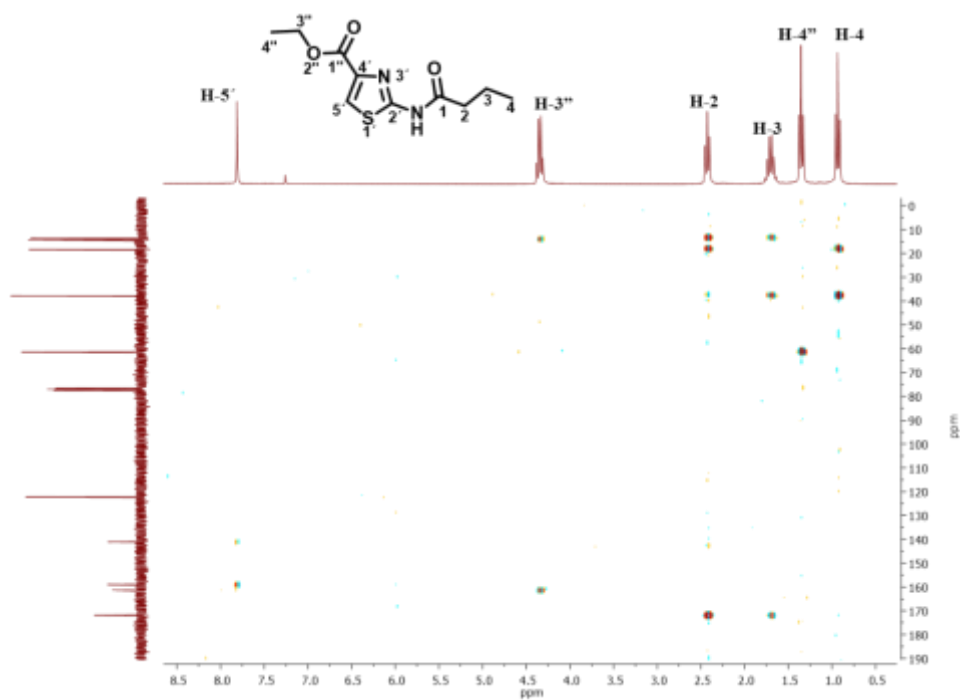


Figure S40. gHMBC spectrum of compound **16a**.

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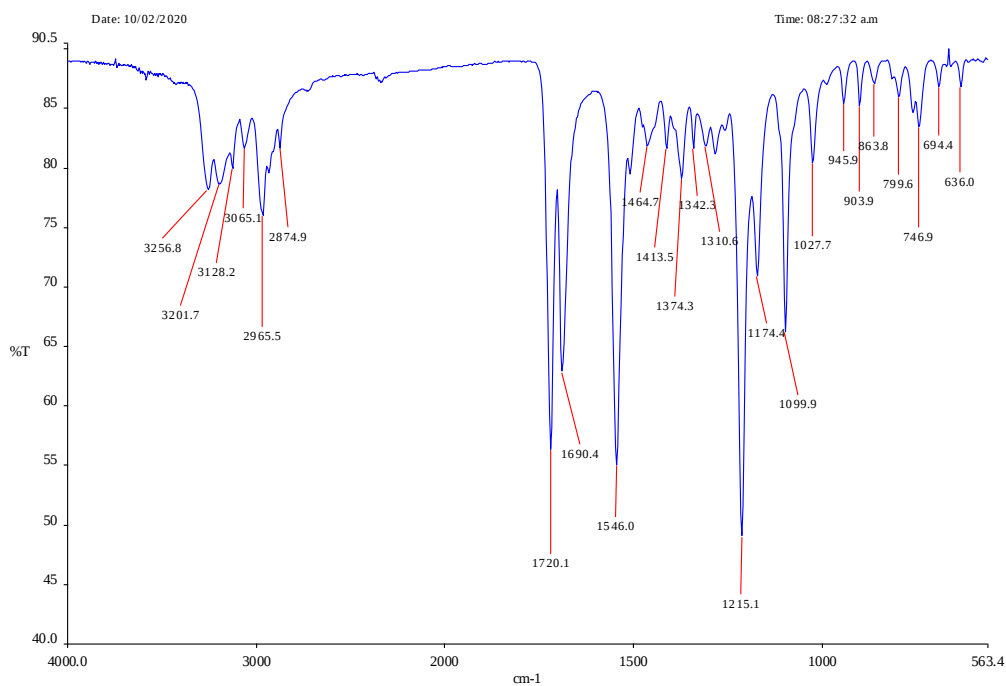


Figure S41. FT-IR spectrum of compound **16a**.

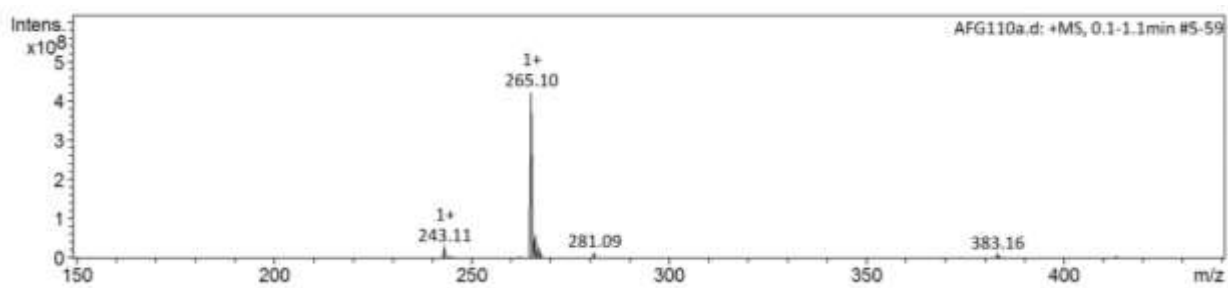


Figure S42. DIP-ESI-MS of compound **16a**.

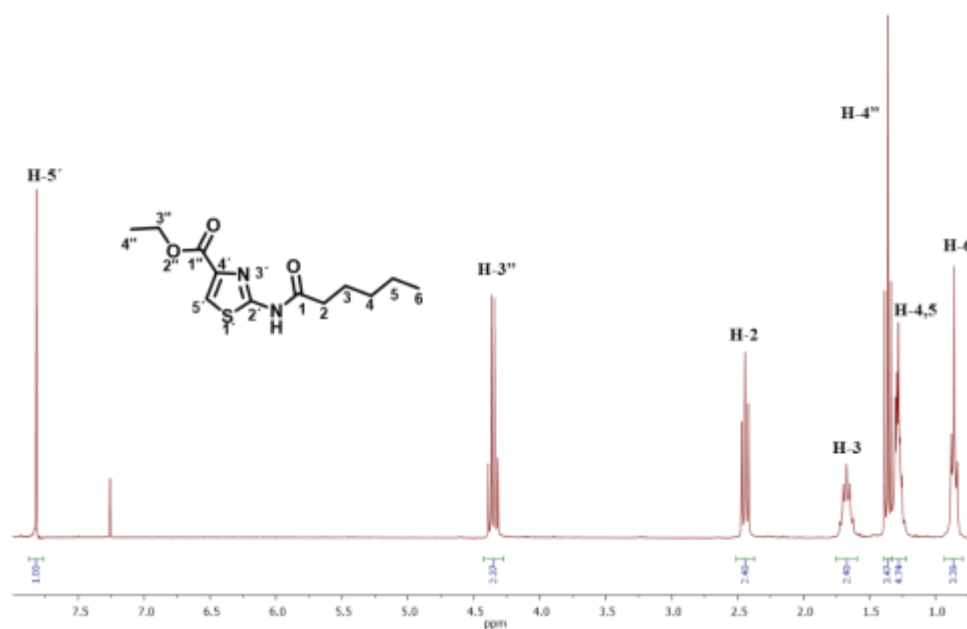


Figure S43. ^1H NMR spectrum of compound **16b** (300 MHz, CDCl_3).

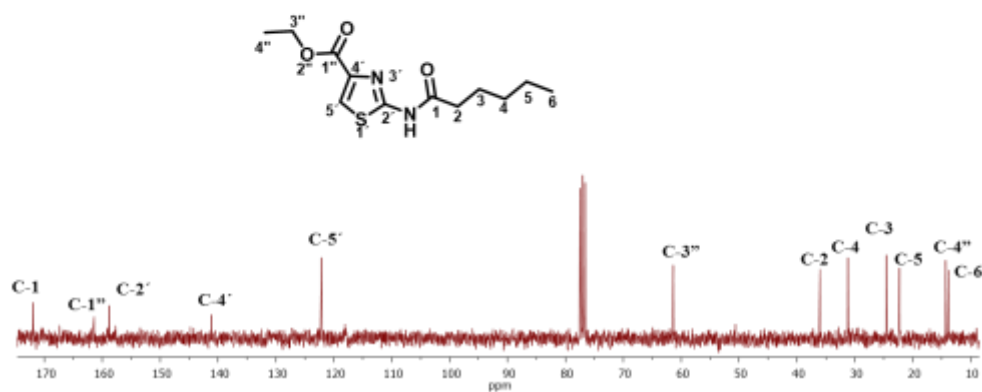


Figure S44. ^{13}C NMR spectrum of compound **16b** (75 MHz, CDCl_3).

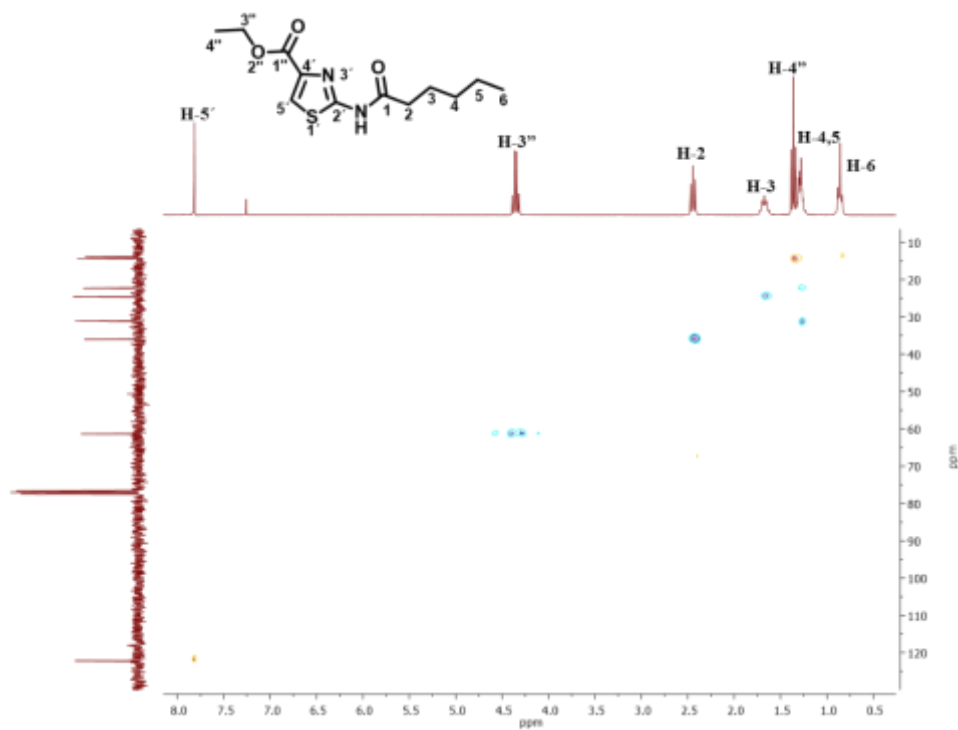


Figure S45. gHSQC spectrum of compound **16b**.

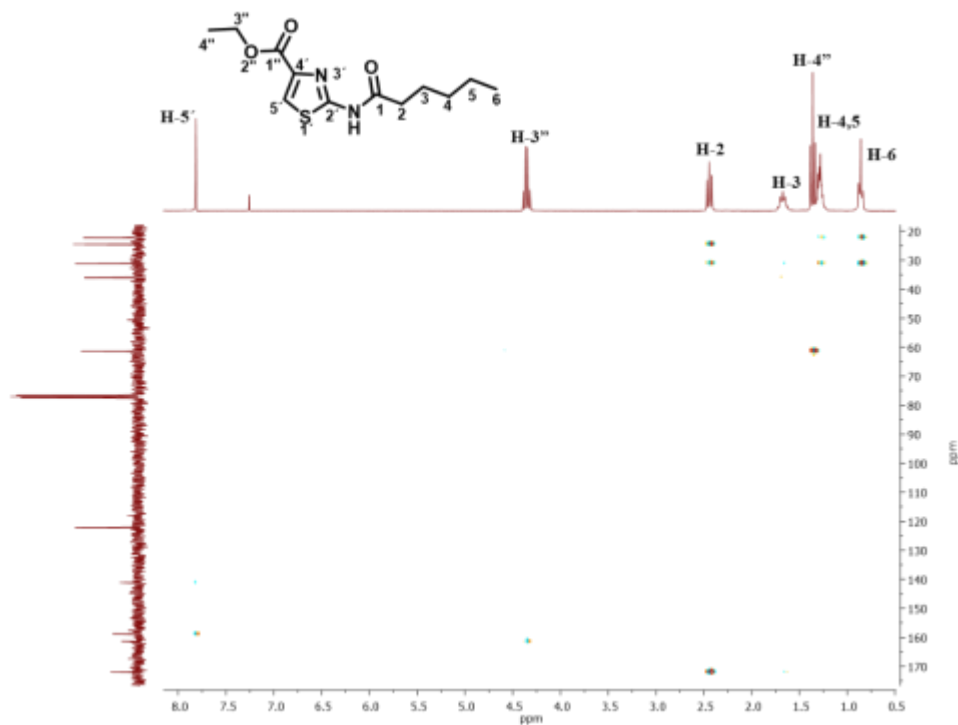


Figure S46. gHMBC spectrum of compound **16b**.

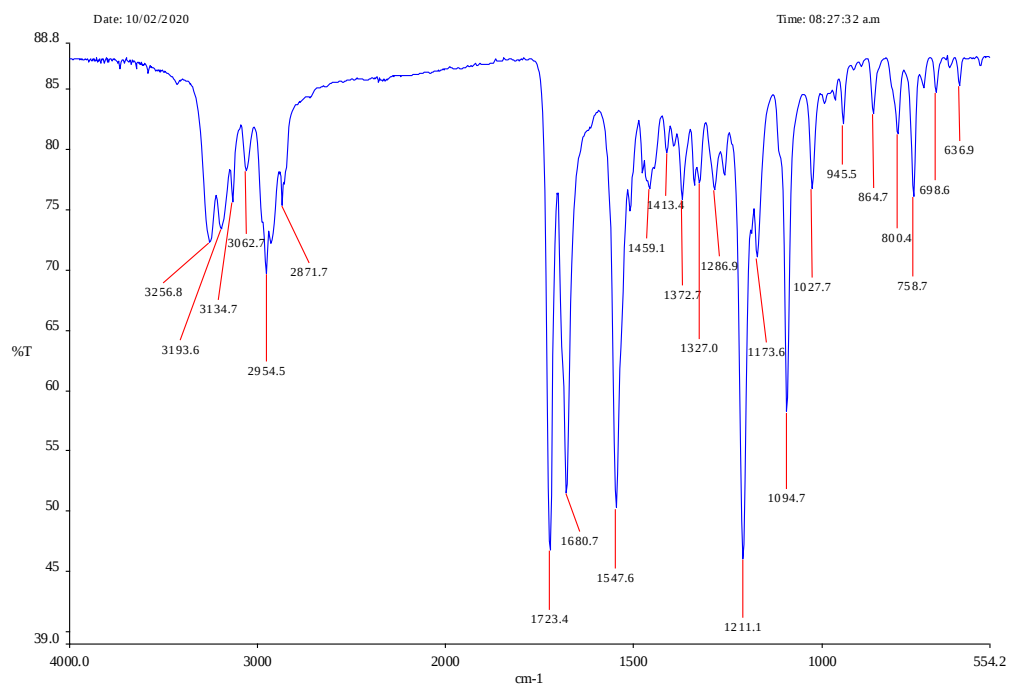


Figure S47. FT-IR spectrum of compound **16b**.

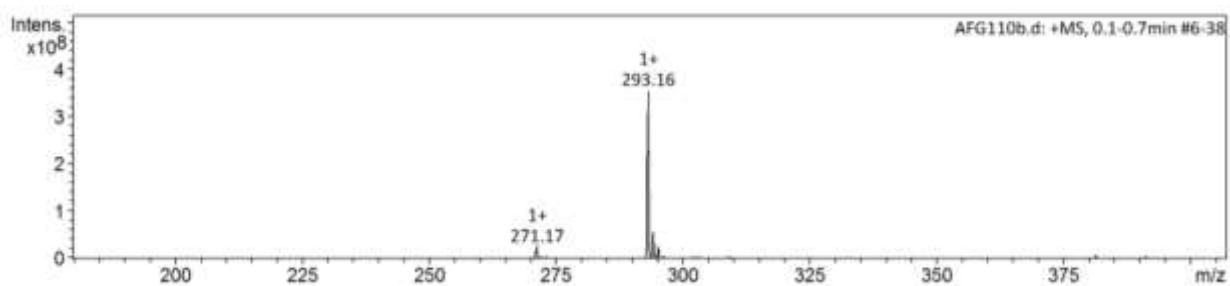


Figure S48. DIP-ESI-MS of compound **16b**.

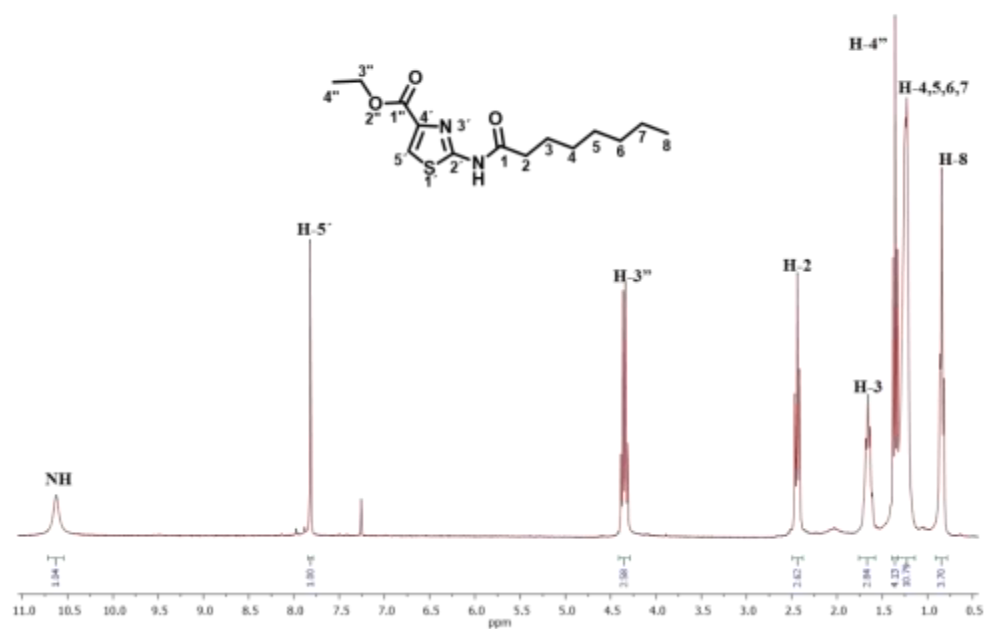


Figure S49. ¹H NMR spectrum of compound **16c** (300 MHz, CDCl₃).

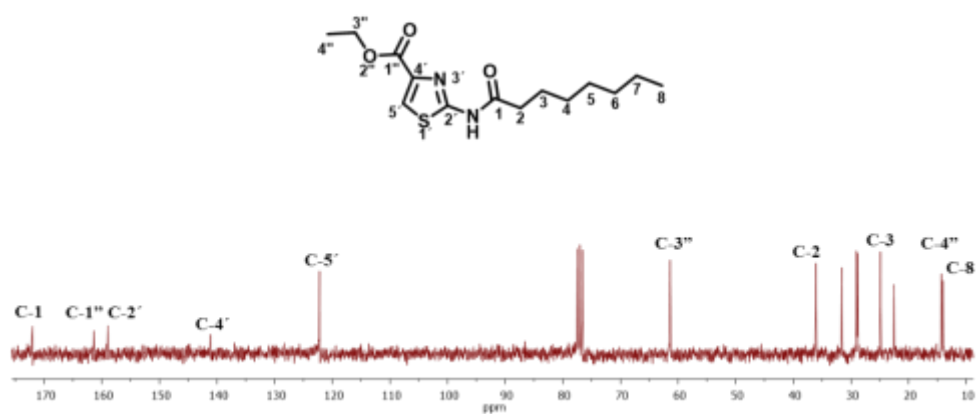


Figure S50. ¹³C NMR spectrum of compound **16c** (75 MHz, CDCl₃).

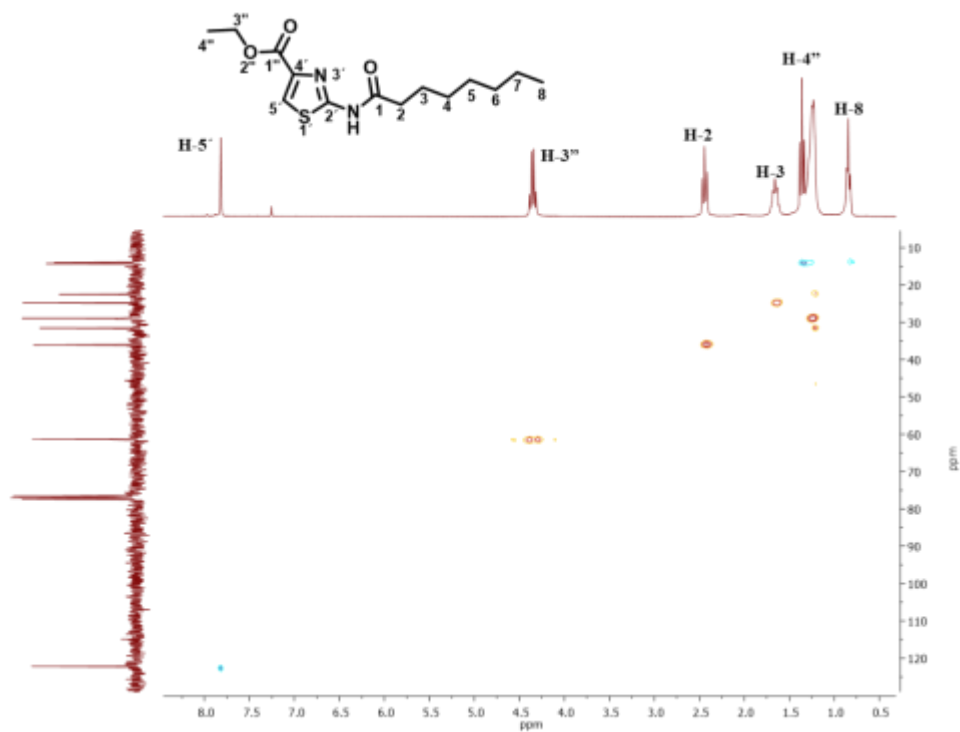


Figure S51. gHSQC spectrum of compound **16c**.

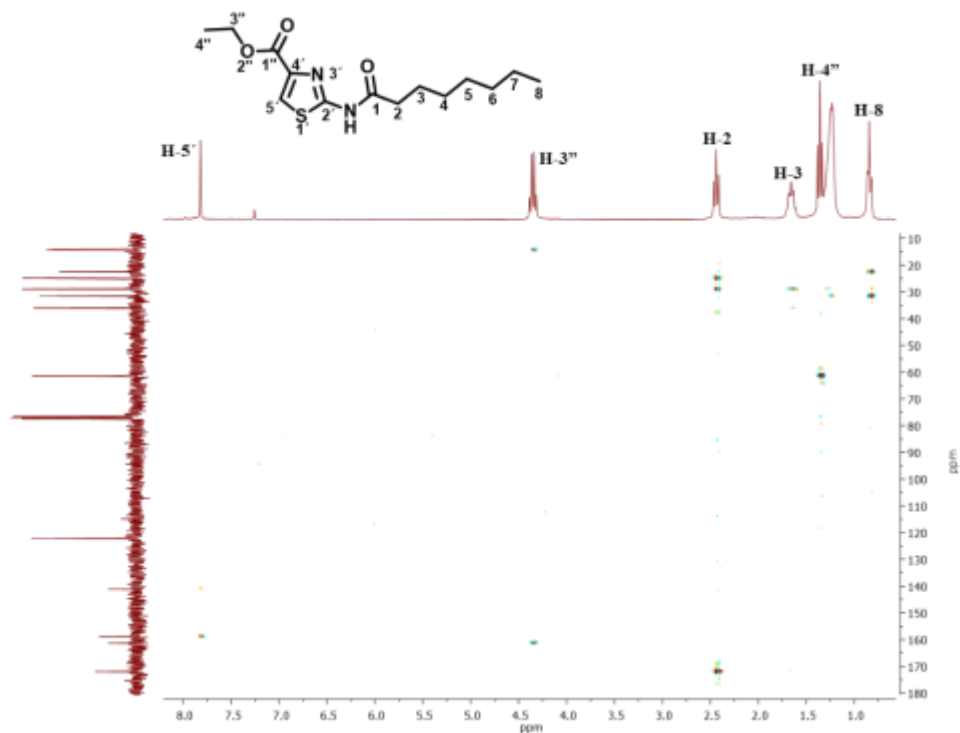


Figure S52. gHMBC spectrum of compound **16c**.

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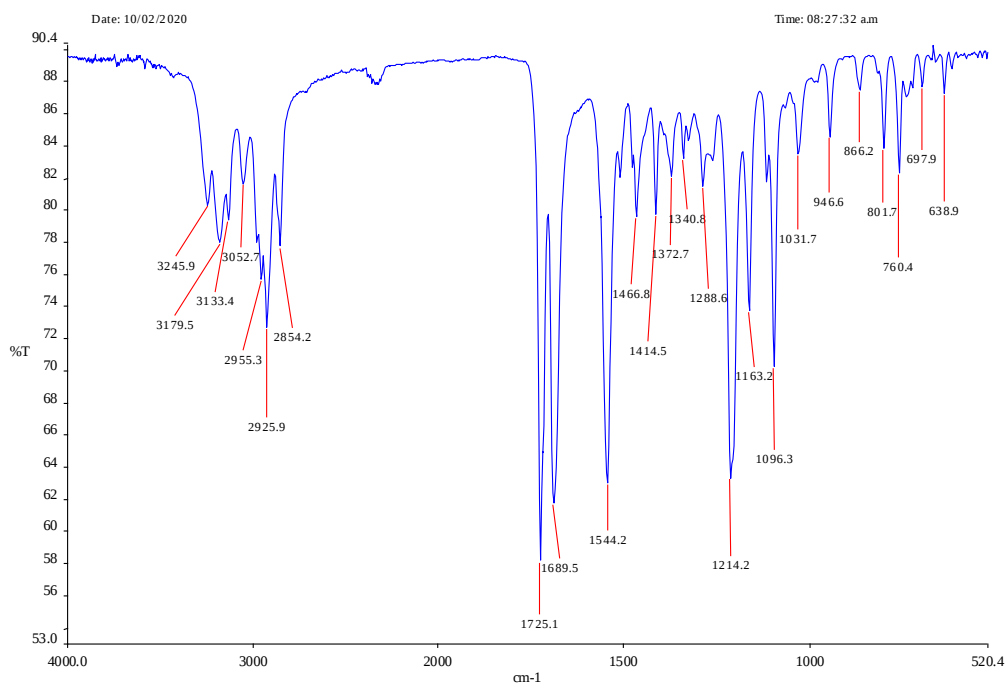


Figure S53. FT-IR spectrum of compound **16c**.

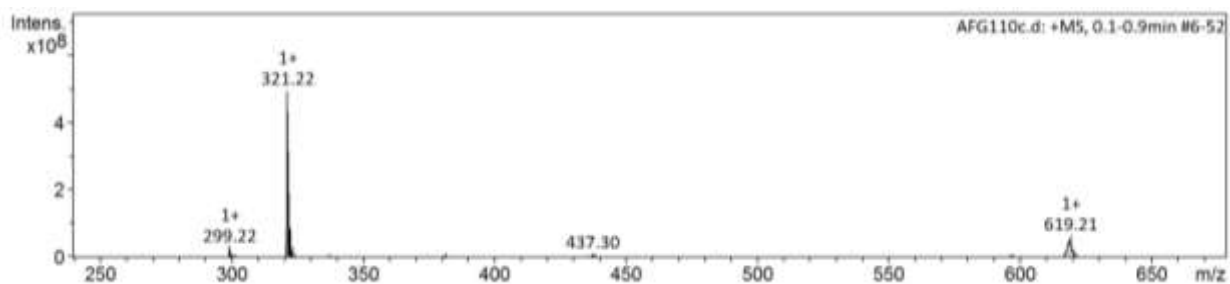


Figure S54. DIP-ESI-MS of compound **16c**.

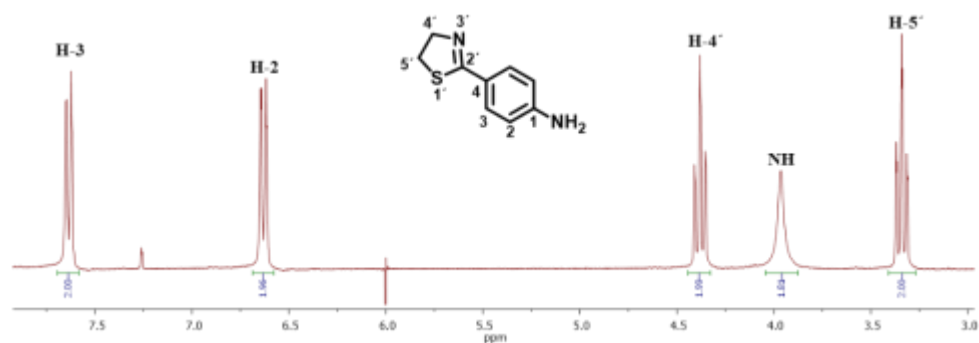


Figure S55. ¹H NMR spectrum of compound 25 (300 MHz, CDCl₃).

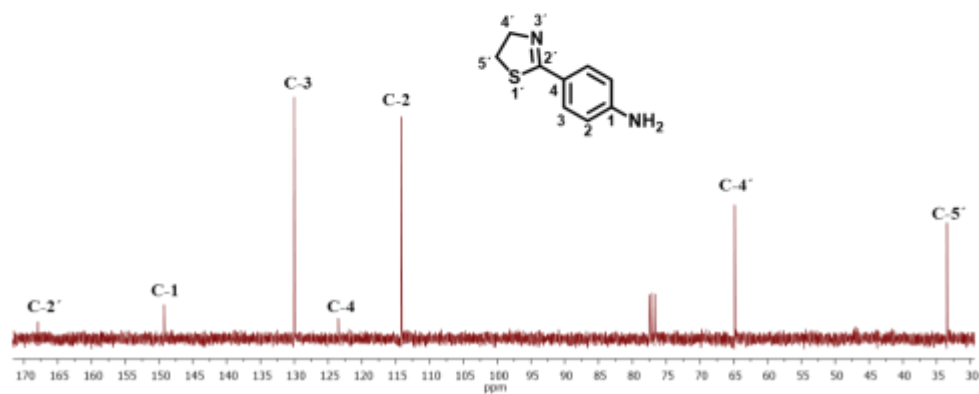


Figure S56. ¹³C NMR spectrum of compound 25 (75 MHz, CDCl₃).

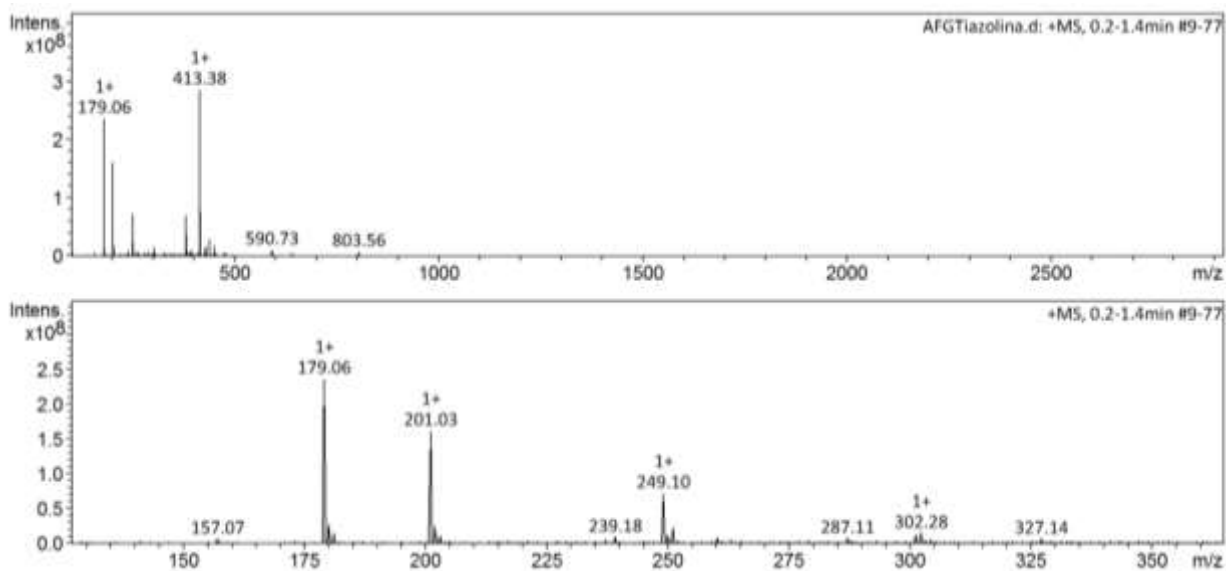


Figure S57. DIP-ESI-MS of compound 25.

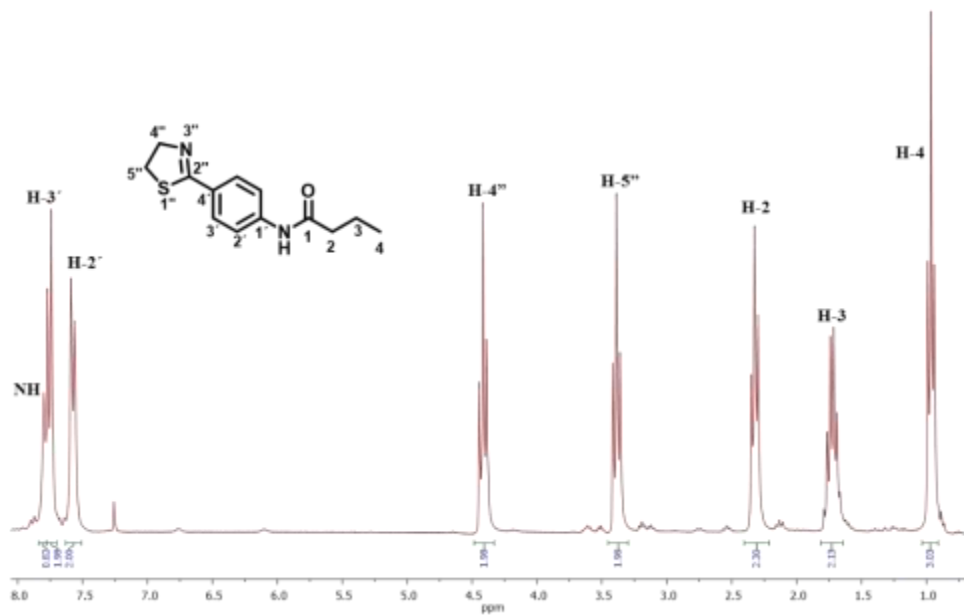


Figure S58. ^1H NMR spectrum of compound 17a (300 MHz, CDCl_3).

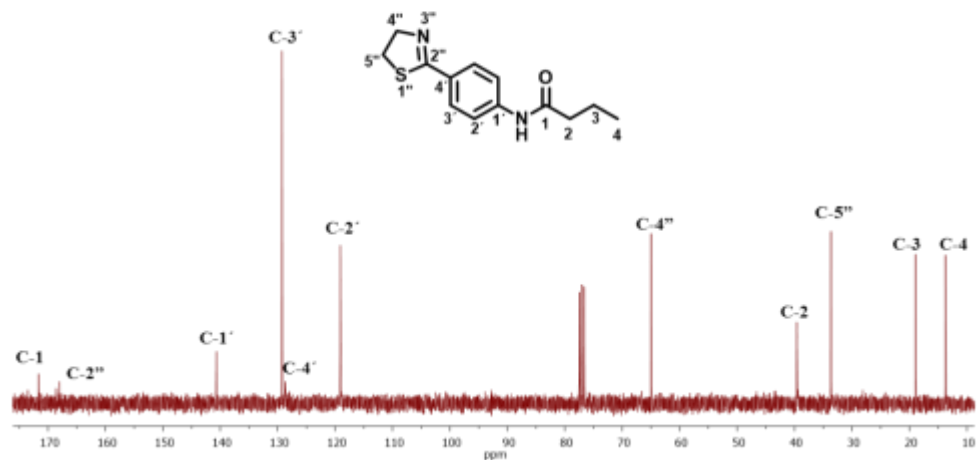


Figure S59. ^{13}C NMR spectrum of compound **17a** (75 MHz, CDCl_3).

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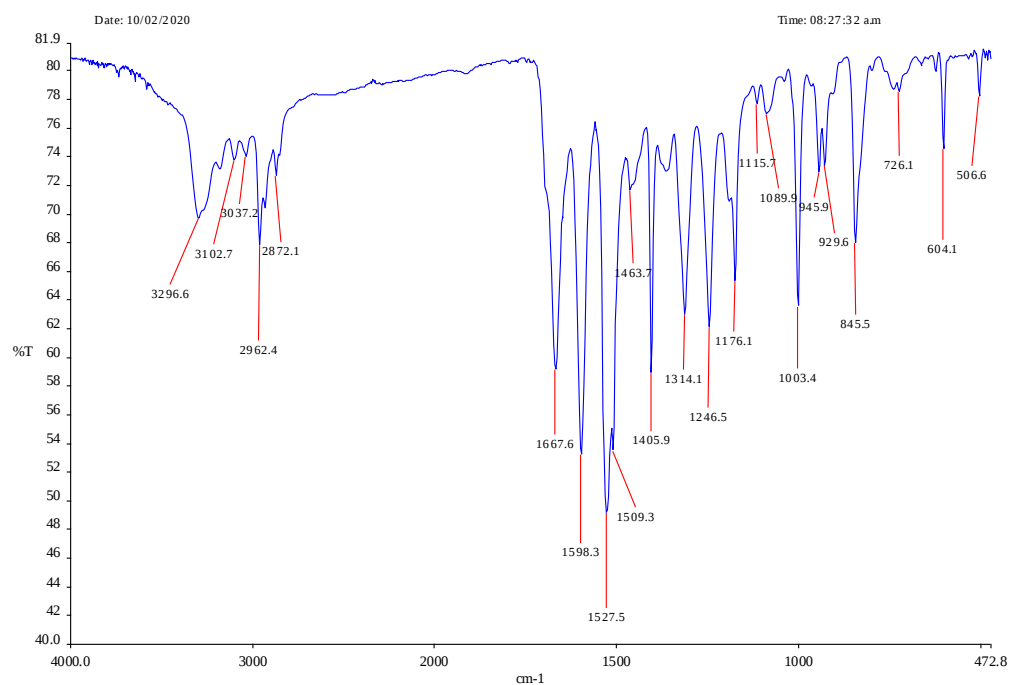


Figure S60. FT-IR spectrum of compound **17a**.

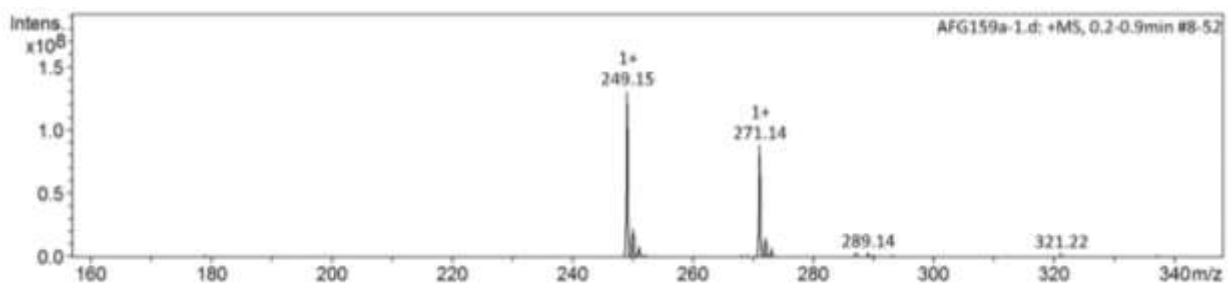


Figure S61. DIP-ESI-MS of compound **17a**.

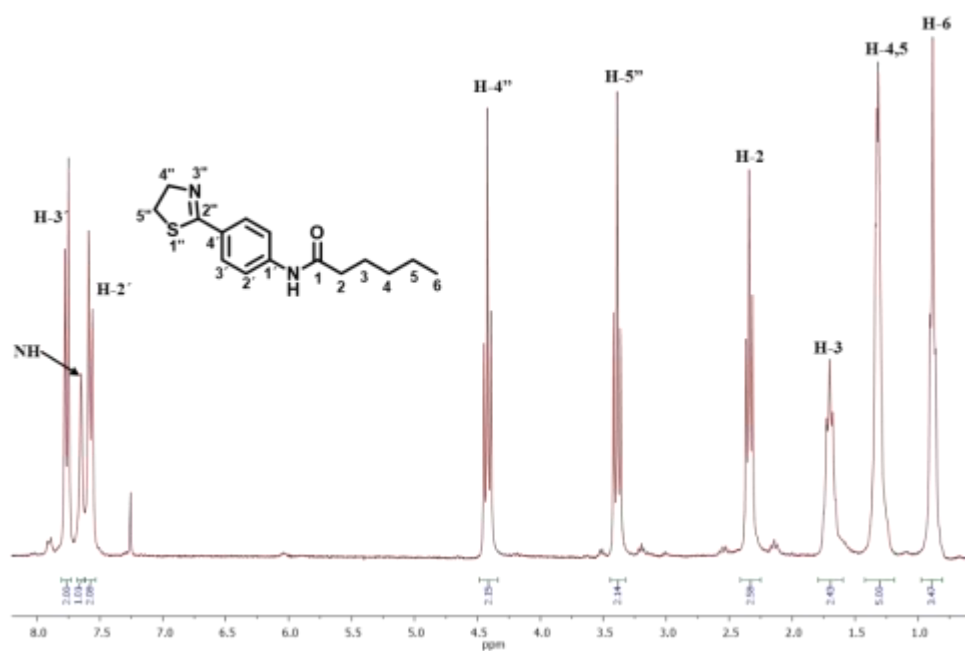


Figure S62. ^1H NMR spectrum of compound **17b** (300 MHz, CDCl_3).

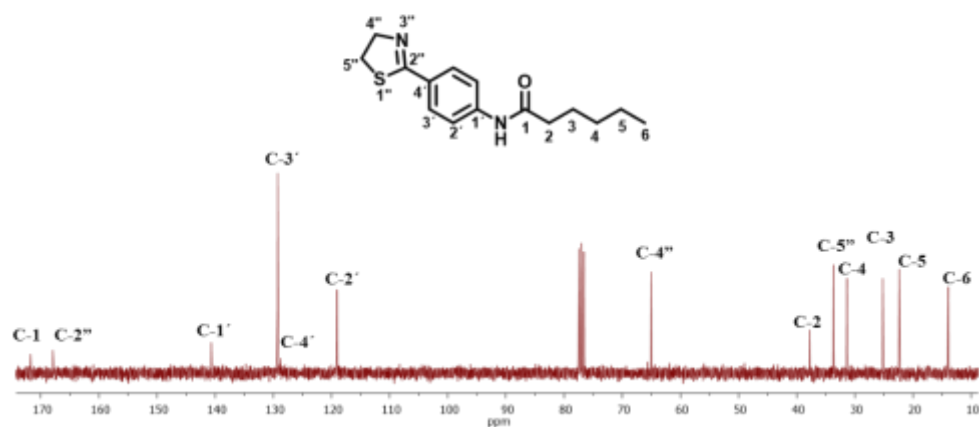


Figure S63. ^{13}C NMR spectrum of compound **17b** (75 MHz, CDCl_3).

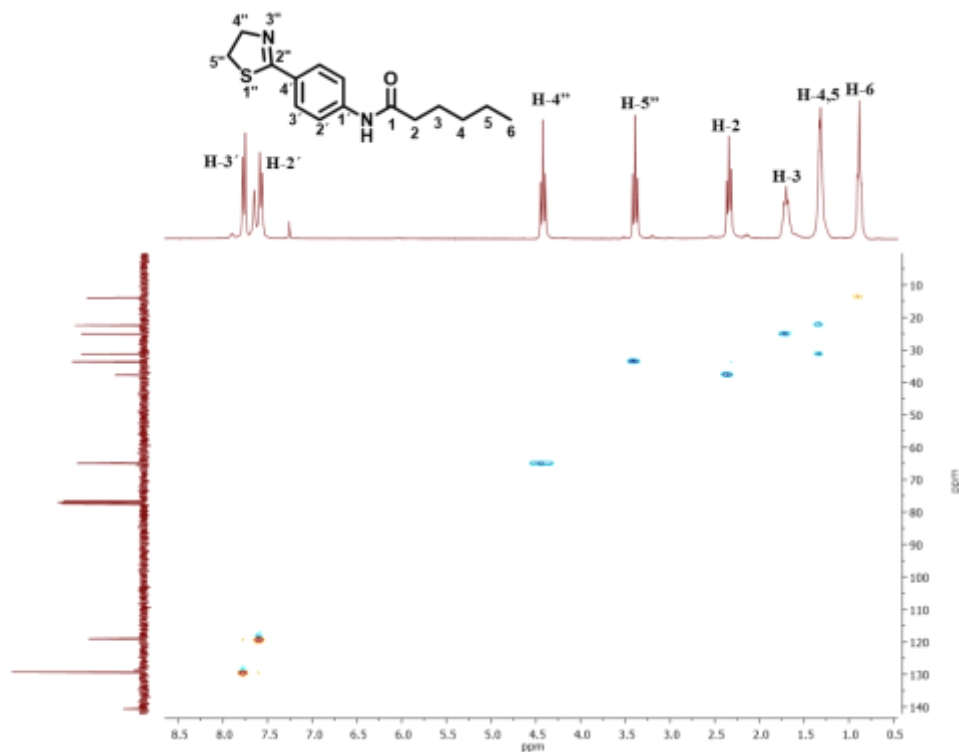


Figure S64. gHSQC spectrum of compound **17b**.

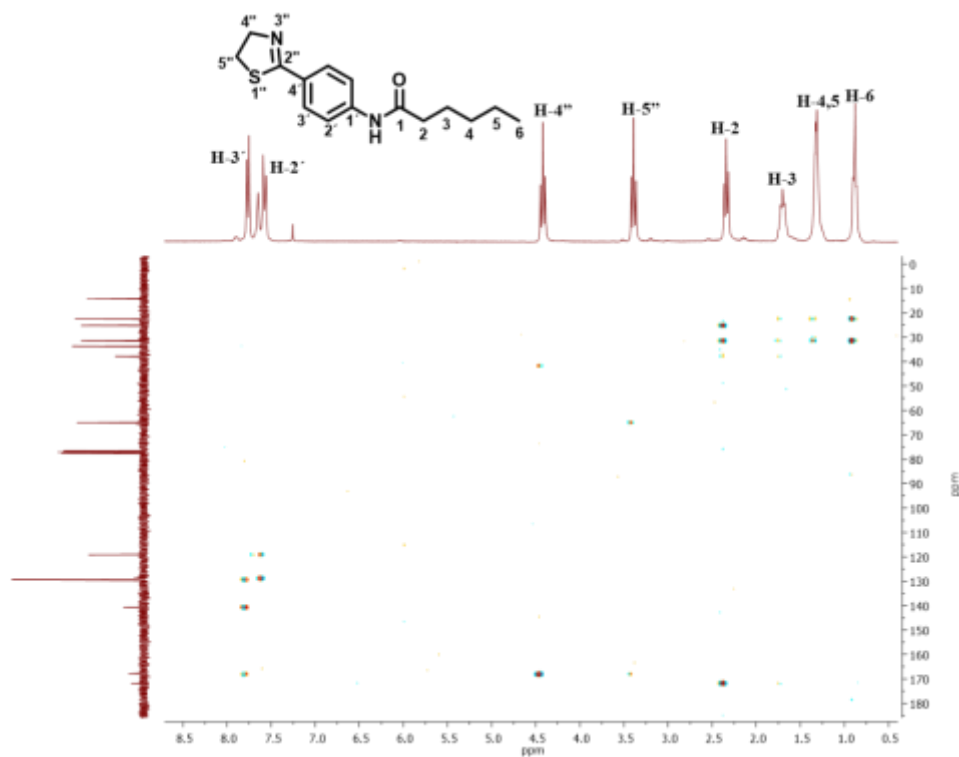


Figure S65. gHMBC spectrum of compound **17b**.

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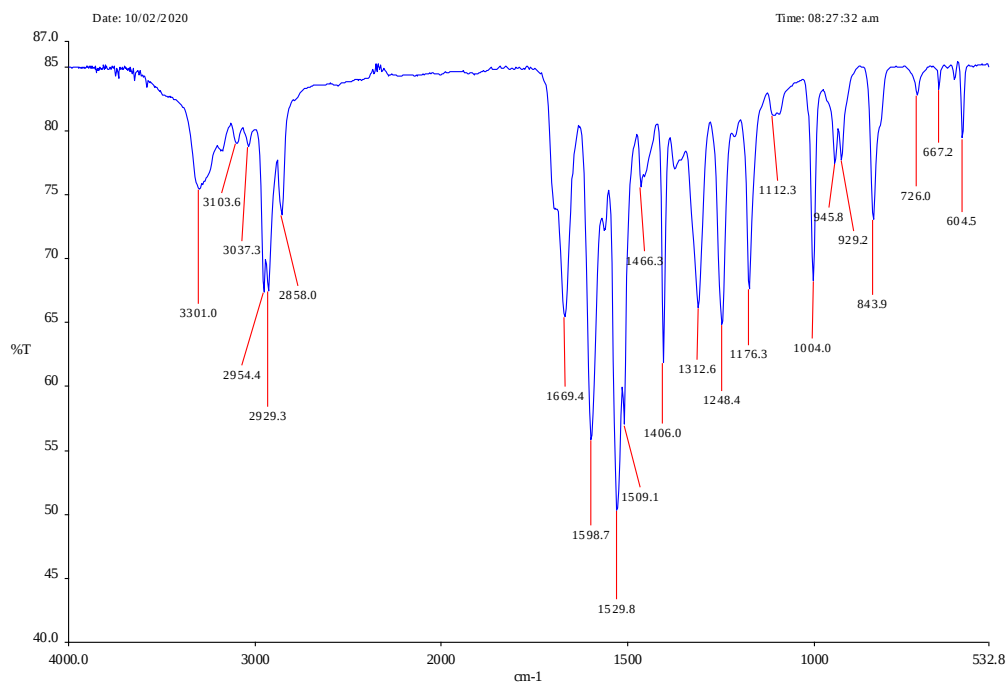


Figure S66. FT-IR spectrum of compound **17b**.

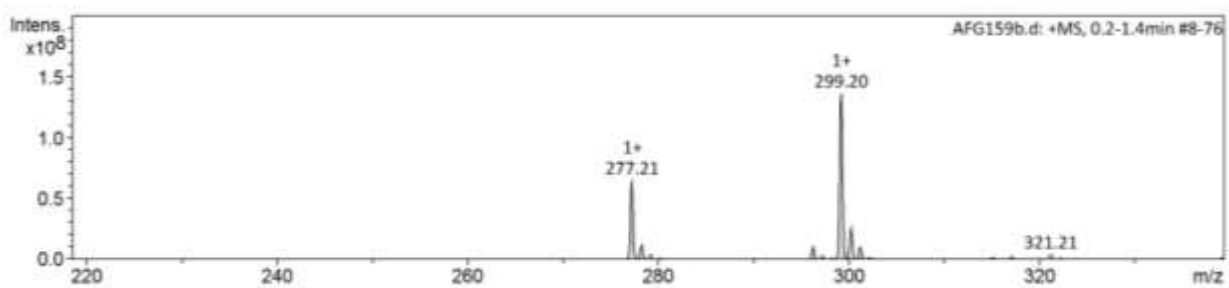


Figure S67. DIP-ESI-MS of compound **17b**.

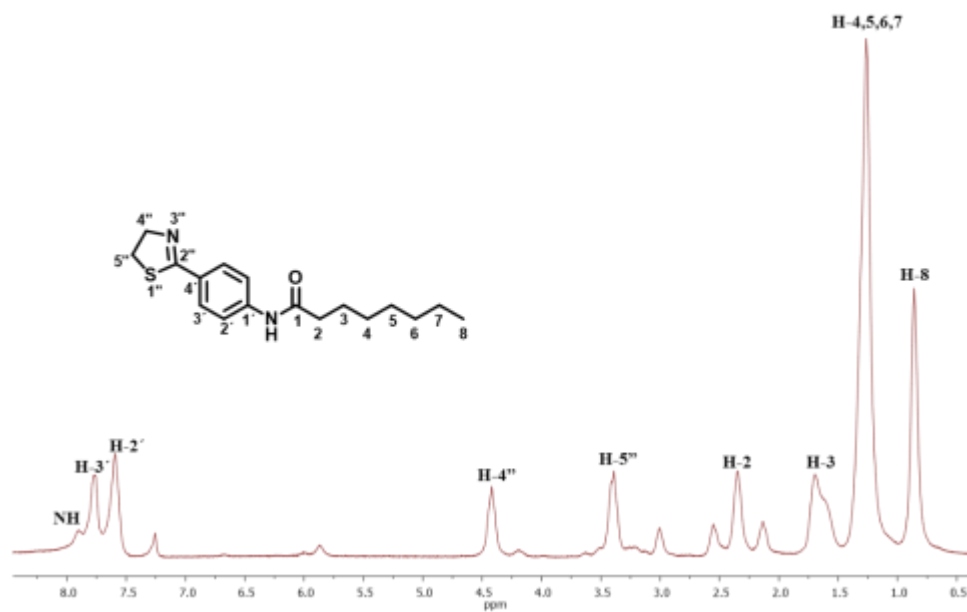


Figure S68. ¹H NMR spectrum of compound **17c** (300 MHz, CDCl₃).

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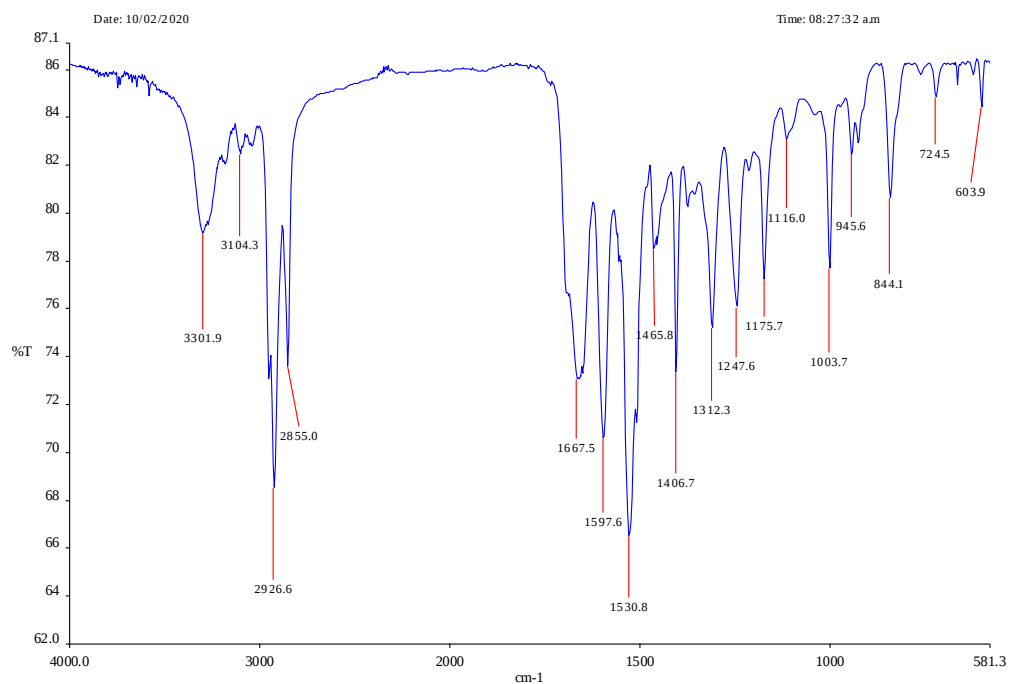


Figure S69. FT-IR spectrum of compound **17c**.

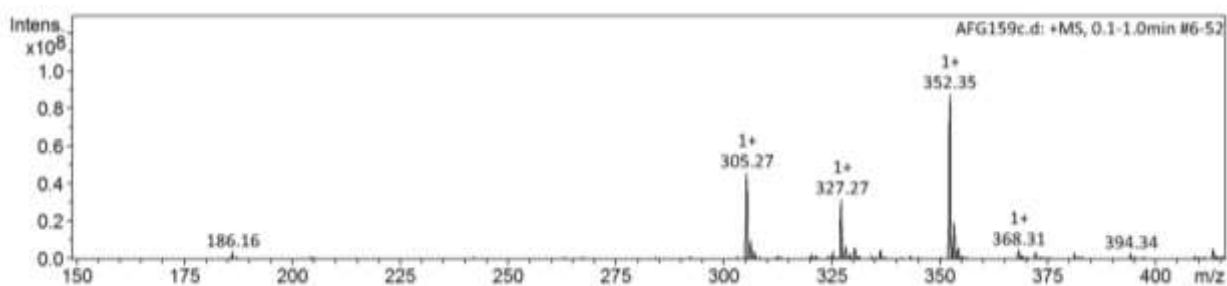


Figure S70. DIP-ESI-MS of compound **17c**.

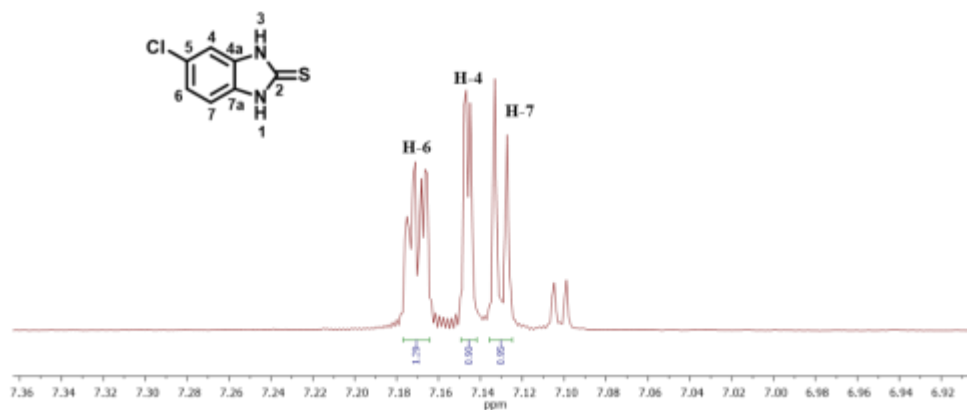


Figure S71. ¹H NMR spectrum of compound 27 (300 MHz, Acetona-d₆).

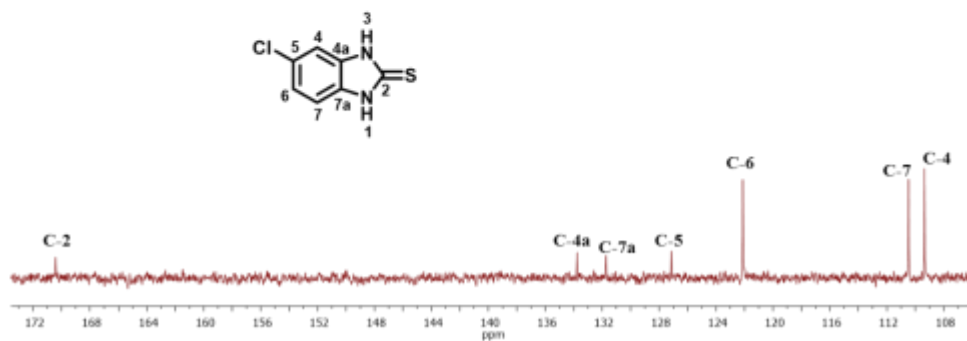


Figure S72. ¹³C NMR spectrum of compound 27 (75 MHz, Acetona-d₆).

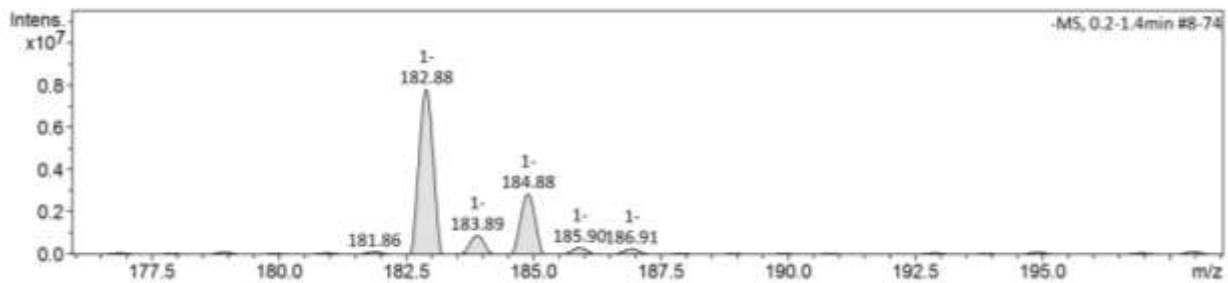


Figure S73. DIP-ESI-MS of compound 27.

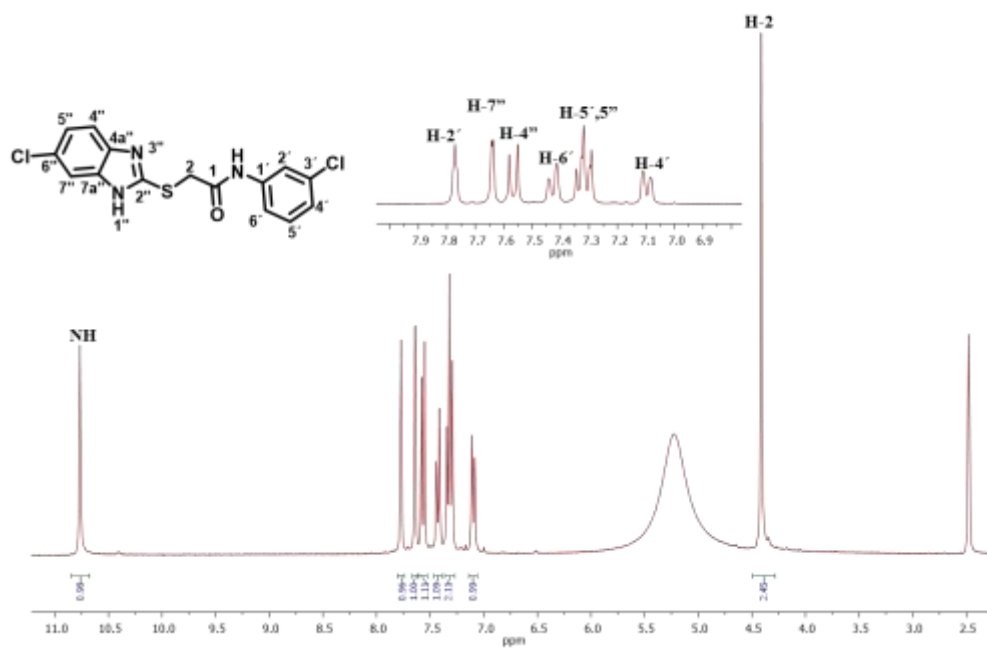


Figure S74. ¹H NMR spectrum of compound 18a (300 MHz, DMSO-d₆).

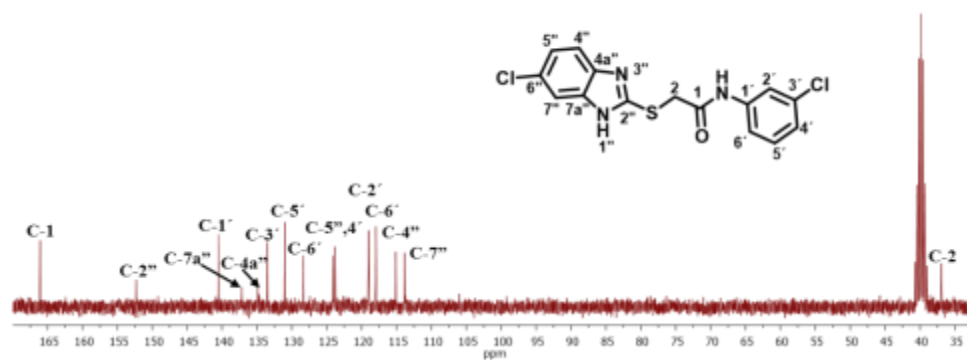


Figure S75. ^{13}C NMR spectrum of compound **18a** (75 MHz, DMSO- d_6).

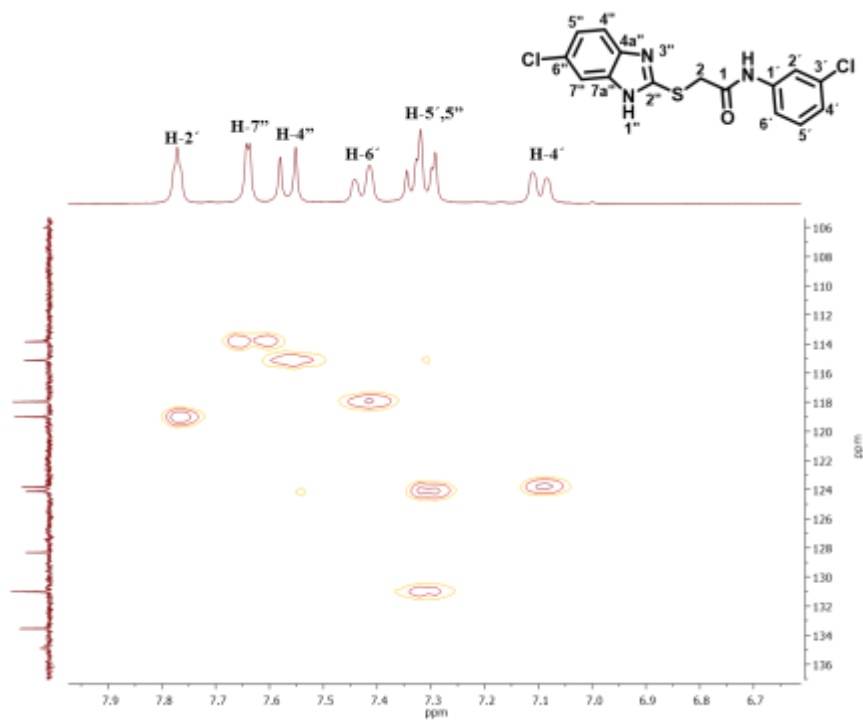


Figure S76. gHSQC spectrum of compound **18a**.

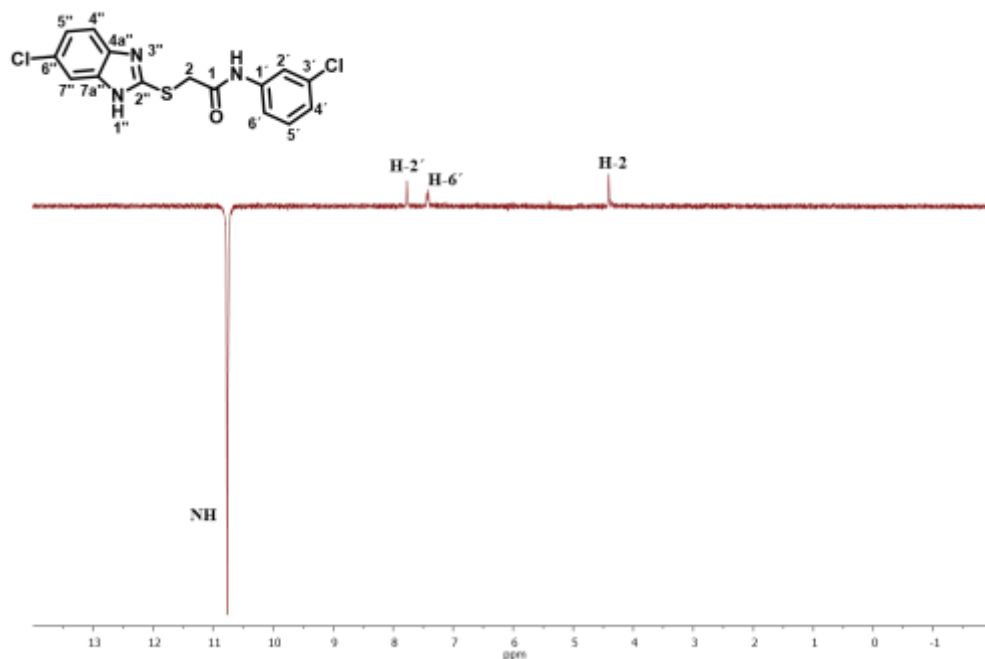


Figure S77. NOESY 1D experiment of compound **18a**.

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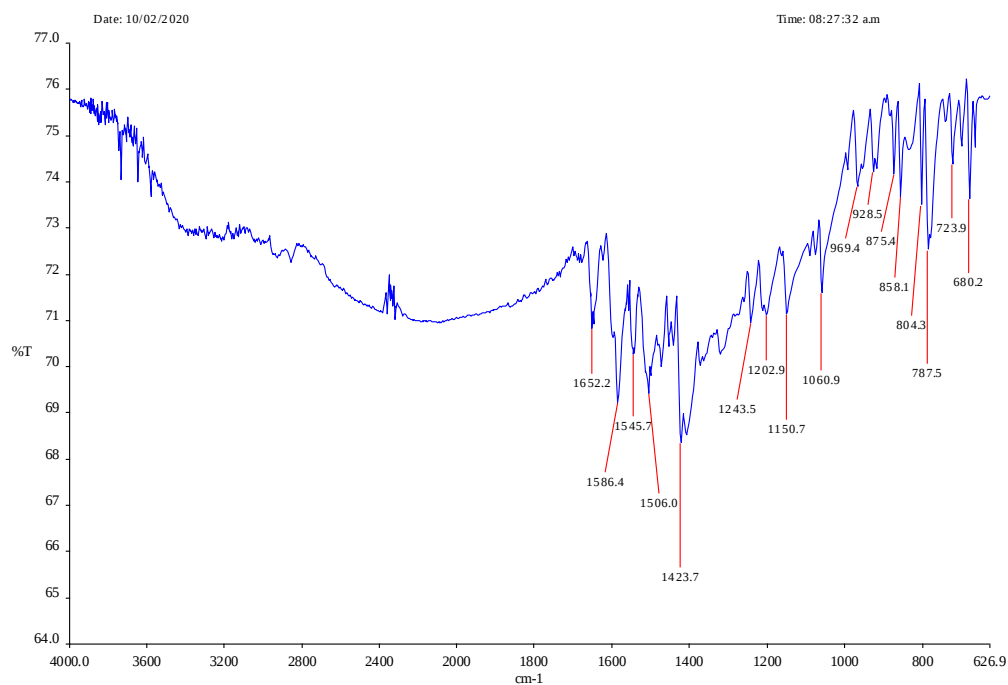


Figure S78. FT-IR spectrum of compound **18a**.

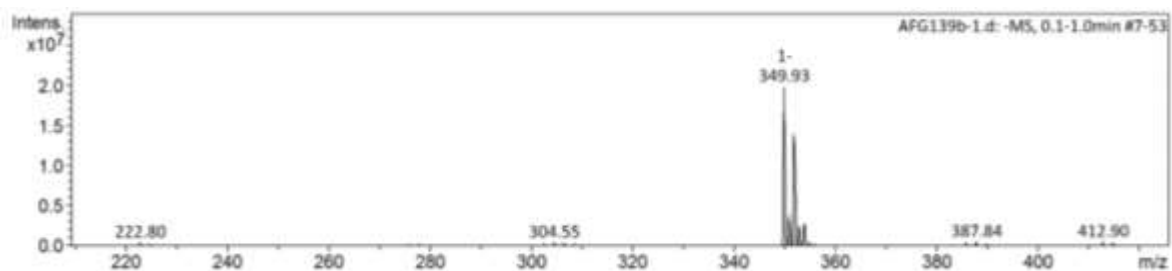


Figure S79. DIP-ESI-MS of compound **18a**.

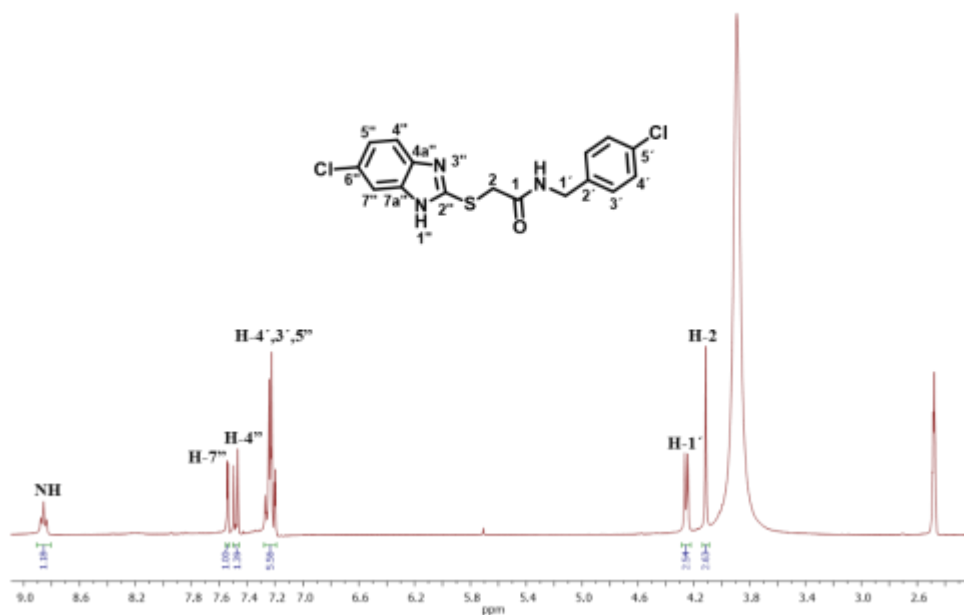


Figure S80. ¹H NMR spectrum of compound **18b** (300 MHz, DMSO-d₆).

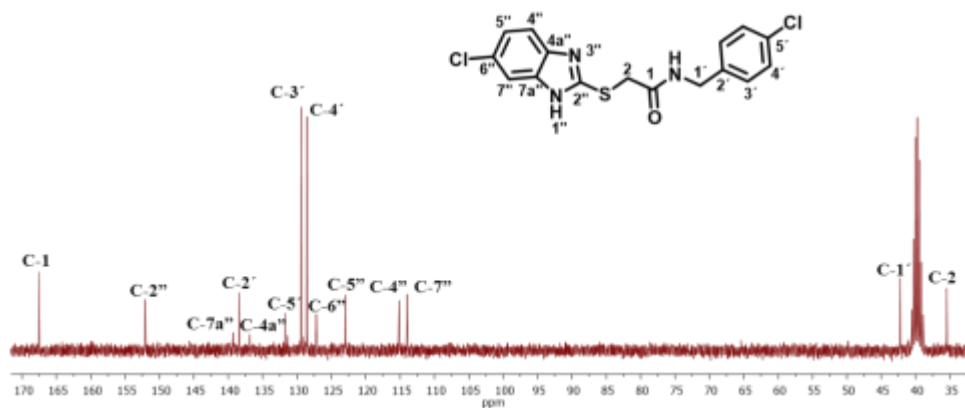


Figure S81. ^{13}C NMR spectrum of compound **18b** (75 MHz, DMSO-d_6).

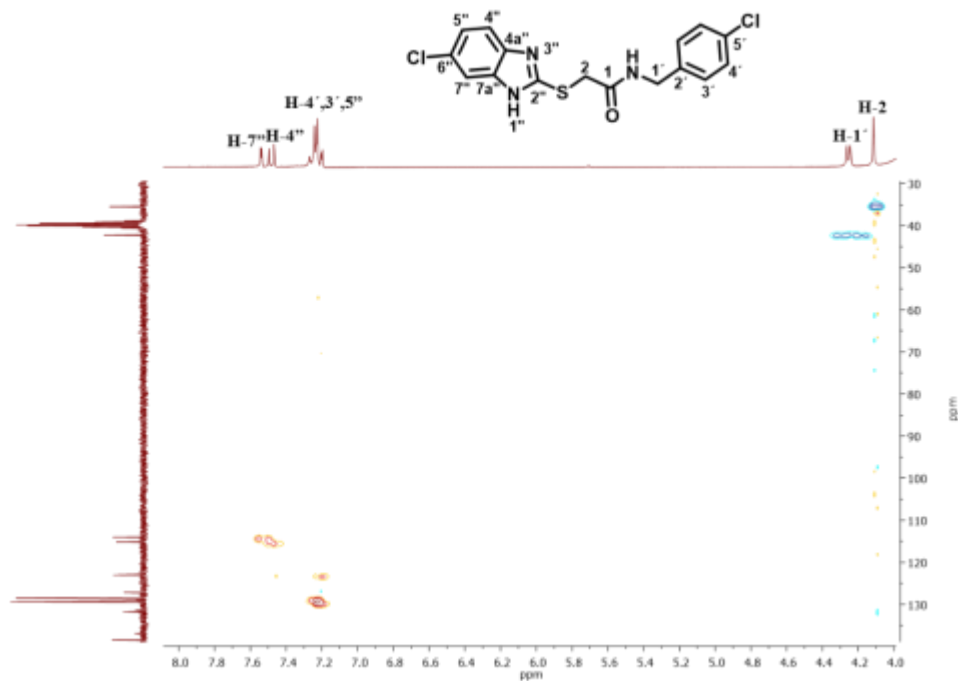


Figure S82. gHSQC spectrum of compound **18b**.

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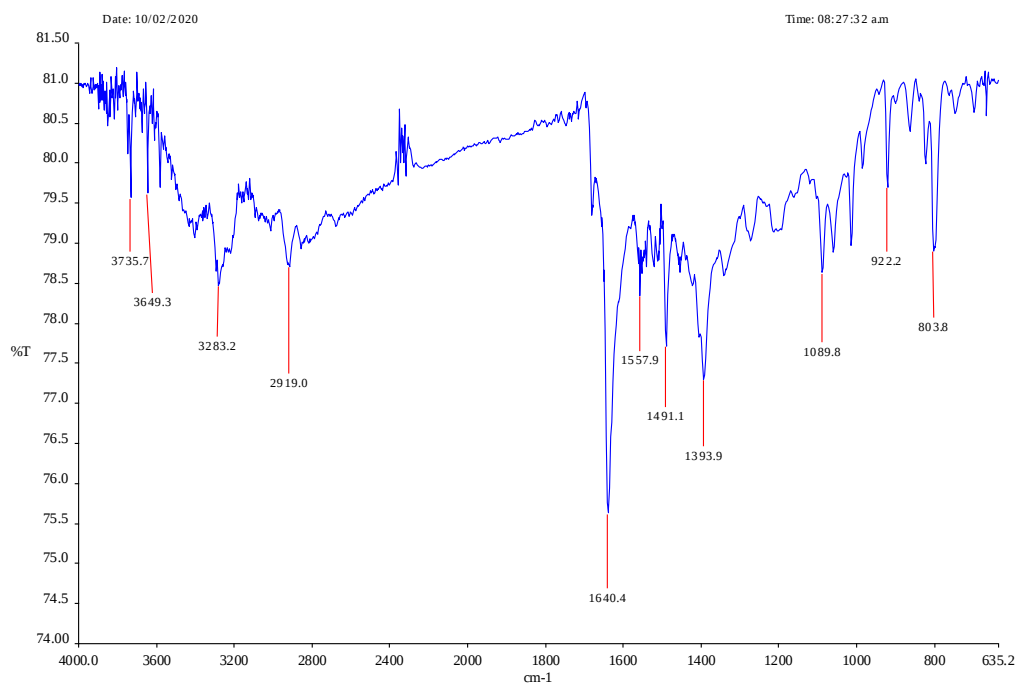


Figure S83. FT-IR spectrum of compound **18b**.

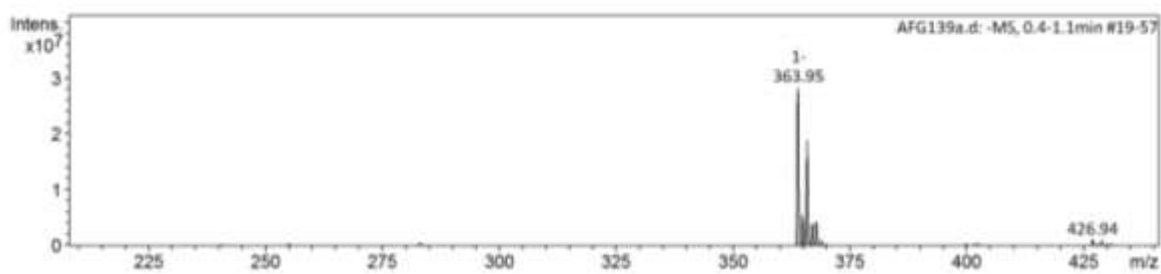


Figure S84. DIP-ESI-MS of compound **18b**.

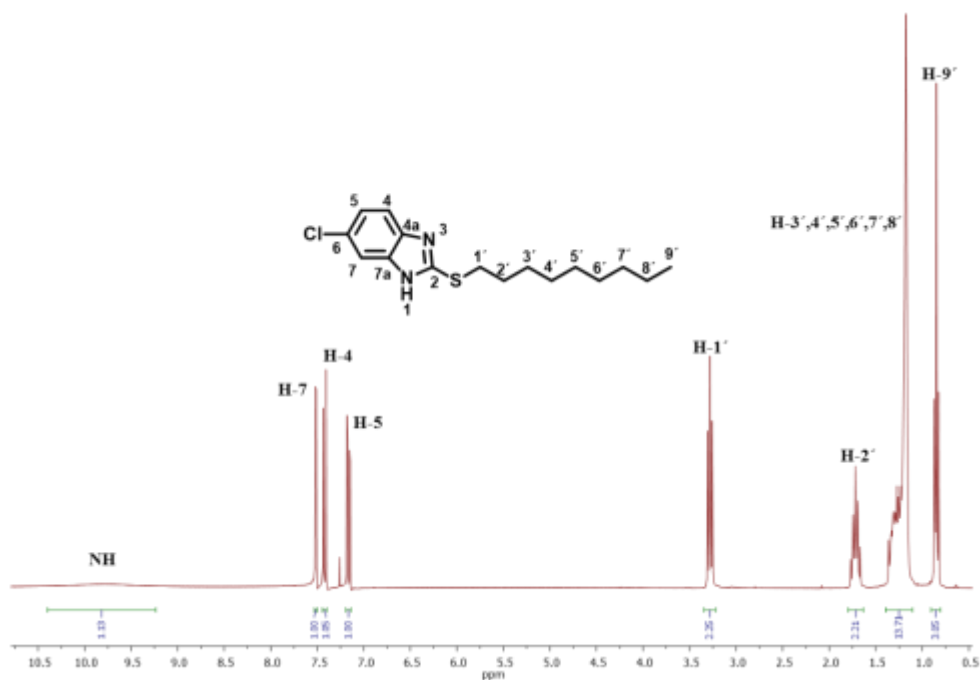


Figure S85. ¹H NMR spectrum of compound **18c** (300 MHz, CDCl₃).

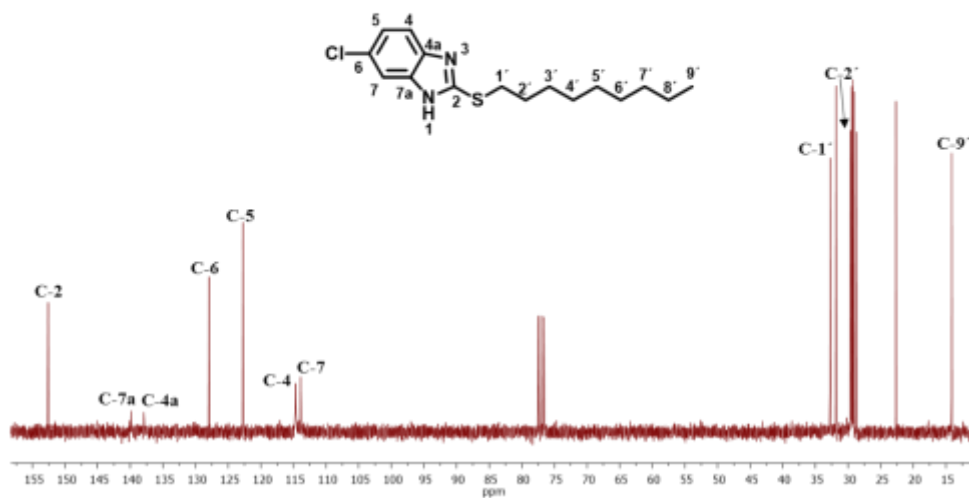


Figure S86. ¹³C NMR spectrum of compound **18c** (75 MHz, CDCl₃).

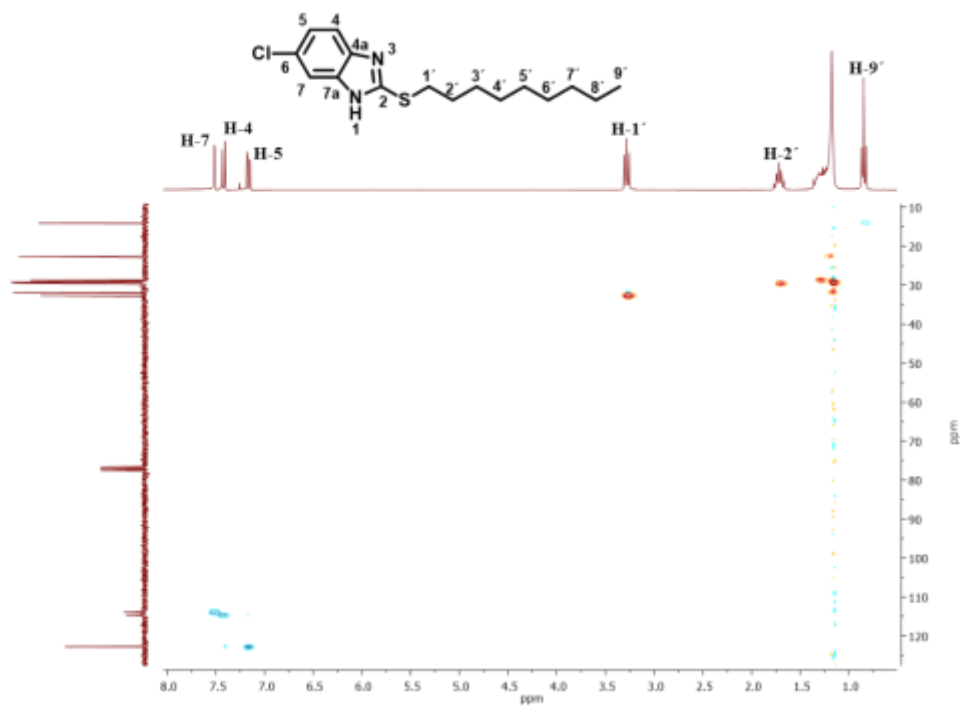


Figure S87. gHSQC spectrum of compound **18c**.

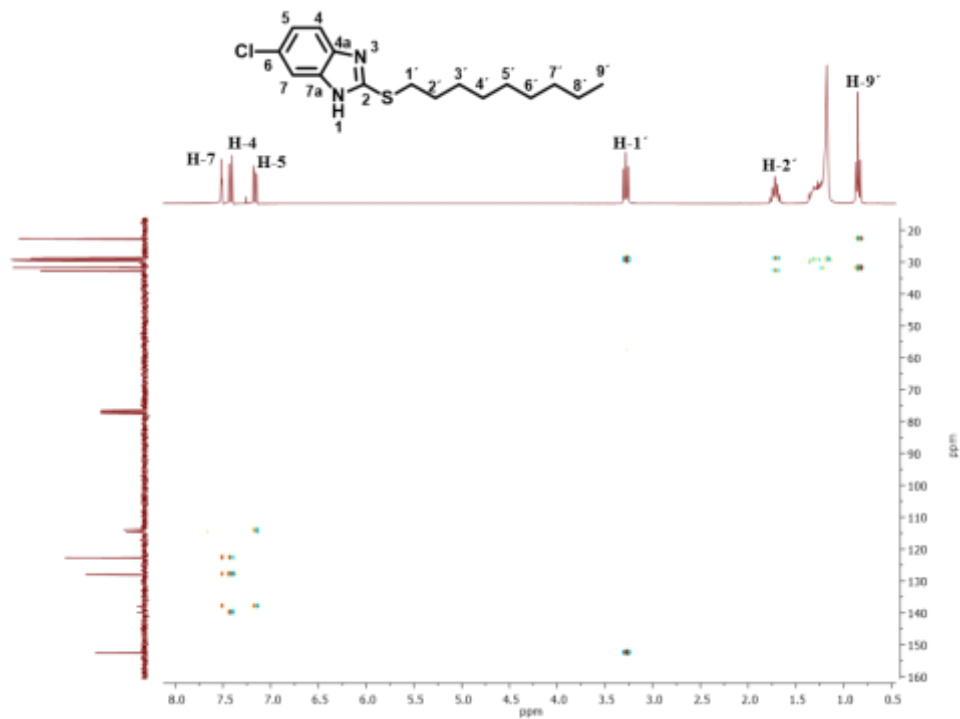


Figure S88. gHMBC spectrum of compound **18c**.

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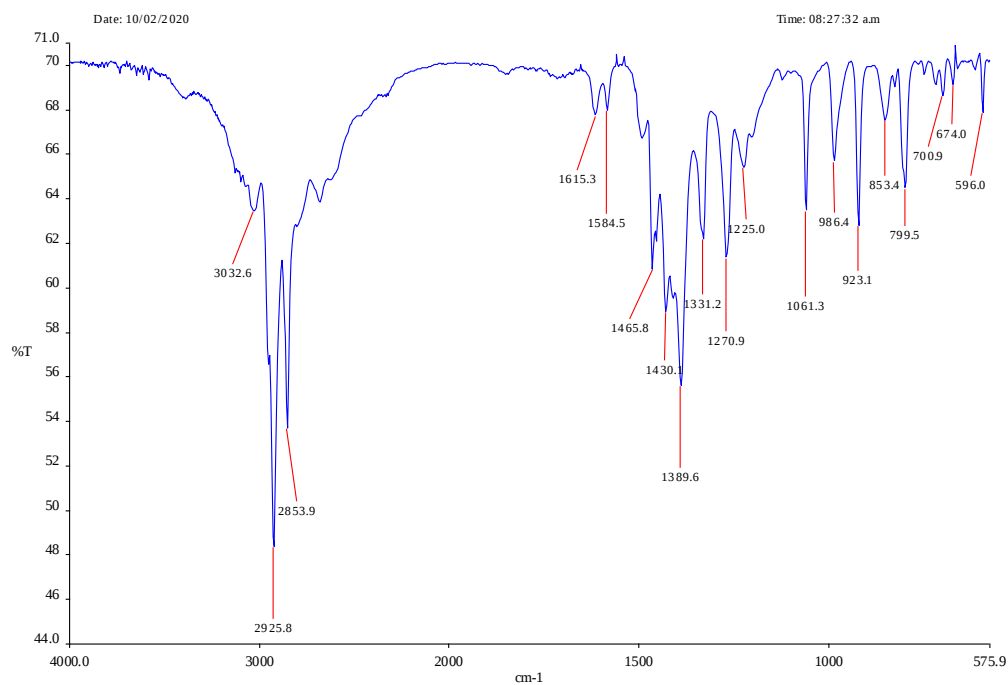


Figure S89. FT-IR spectrum of compound **18c**.

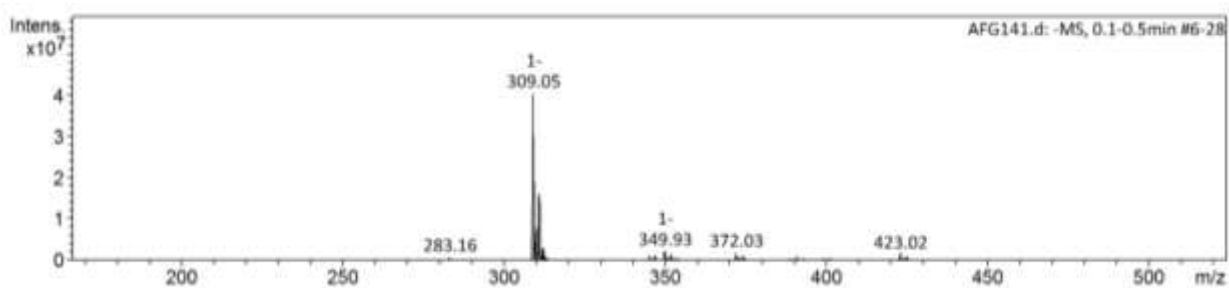


Figure S90. DIP-ESI-MS of compound **18c**.

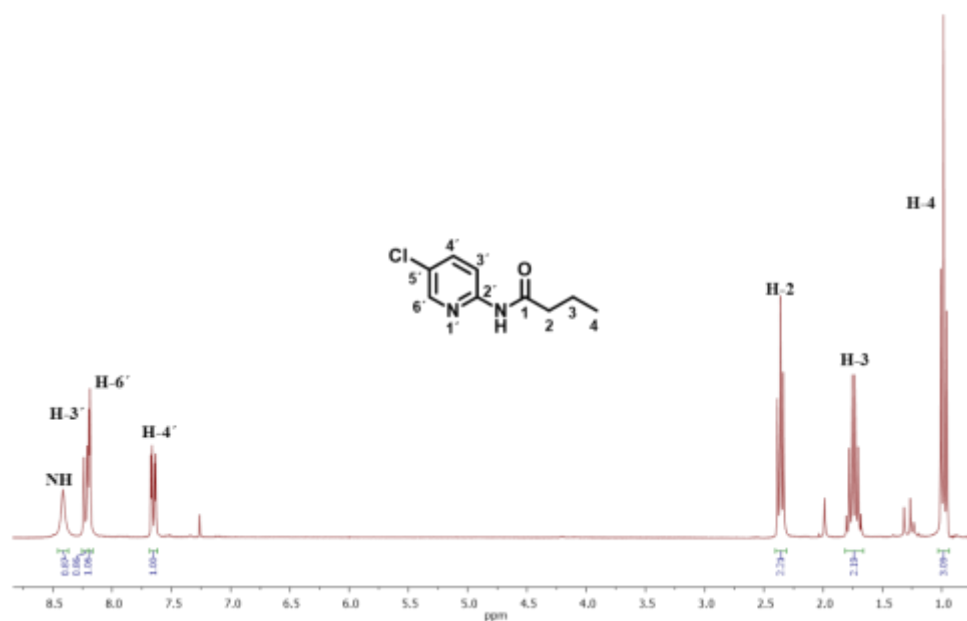


Figure S91. ¹H NMR spectrum of compound **19a** (300 MHz, CDCl₃).

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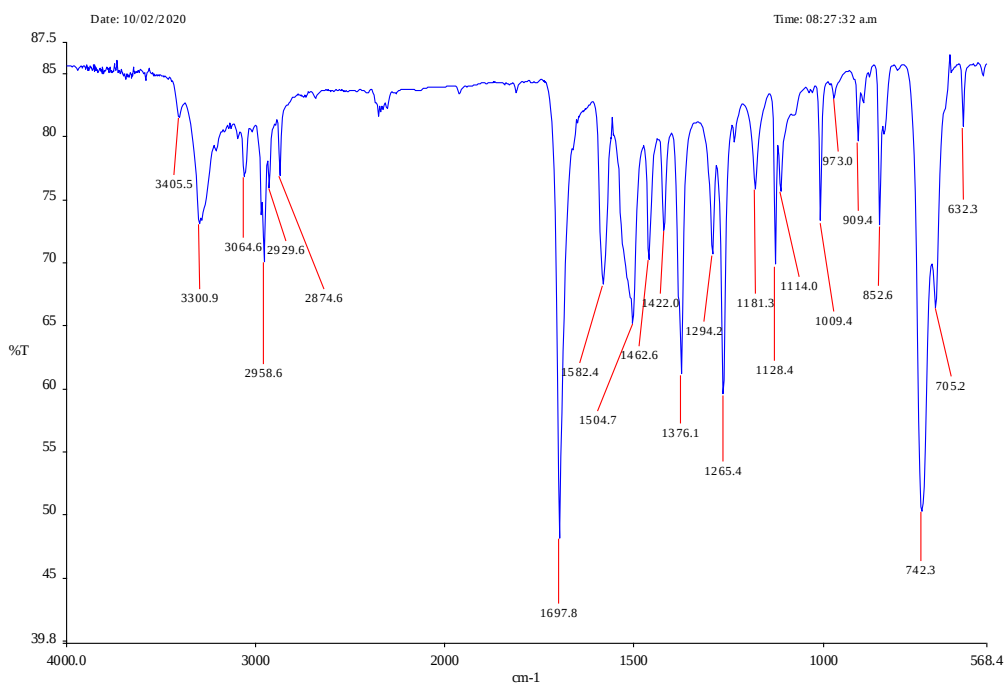


Figure S92. FT-IR spectrum of compound **19a**.

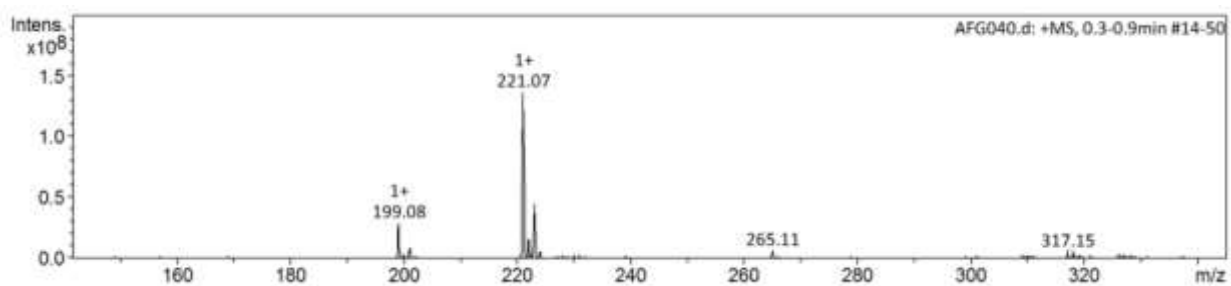


Figure S93. DIP-ESI-MS of compound **19a**.

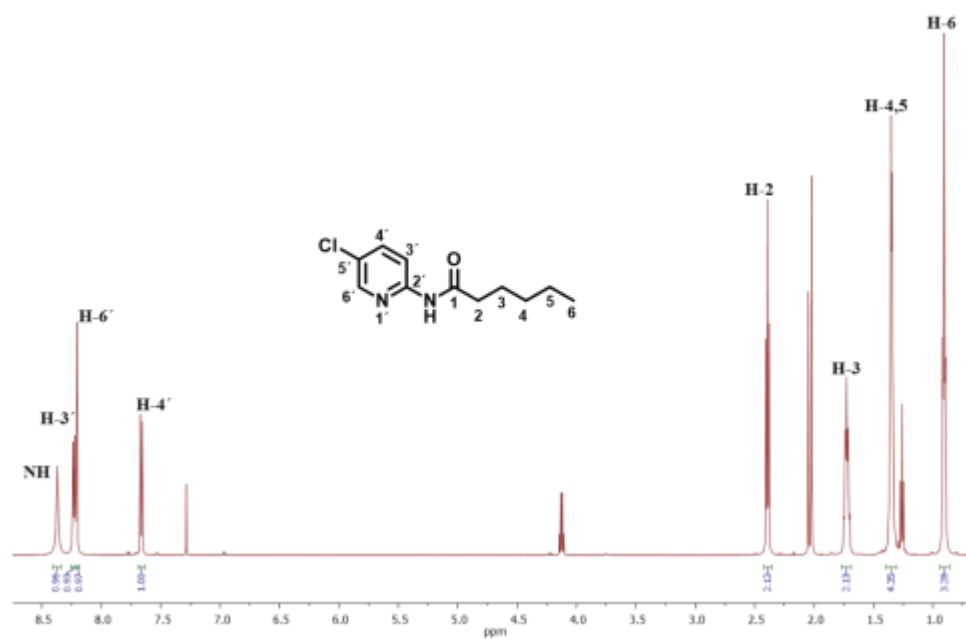


Figure S94. ¹H NMR spectrum of compound **19b** (600 MHz, CDCl₃).

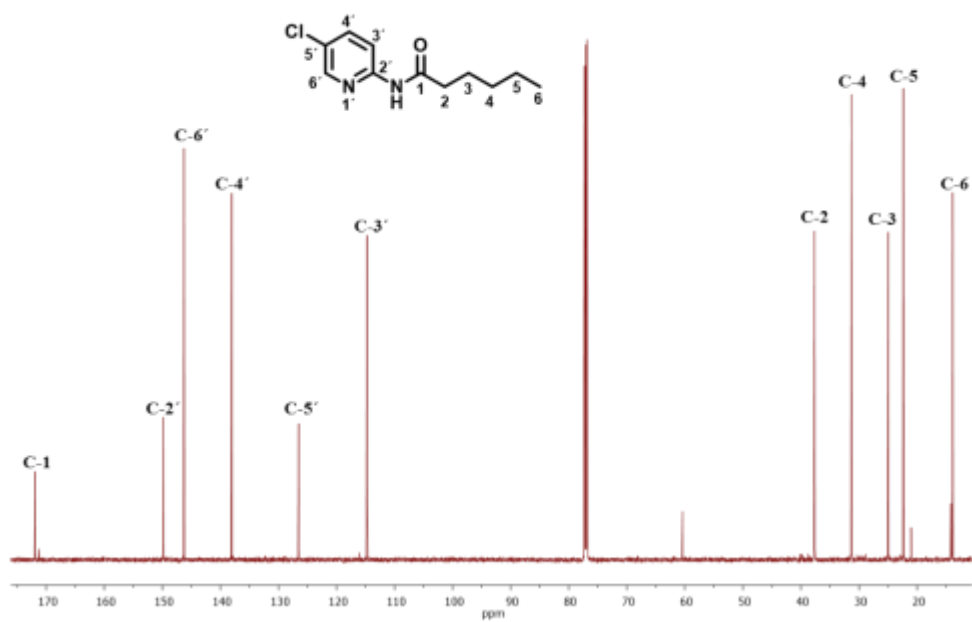


Figure S95. ¹³C NMR spectrum of compound **19b** (150 MHz, CDCl₃).

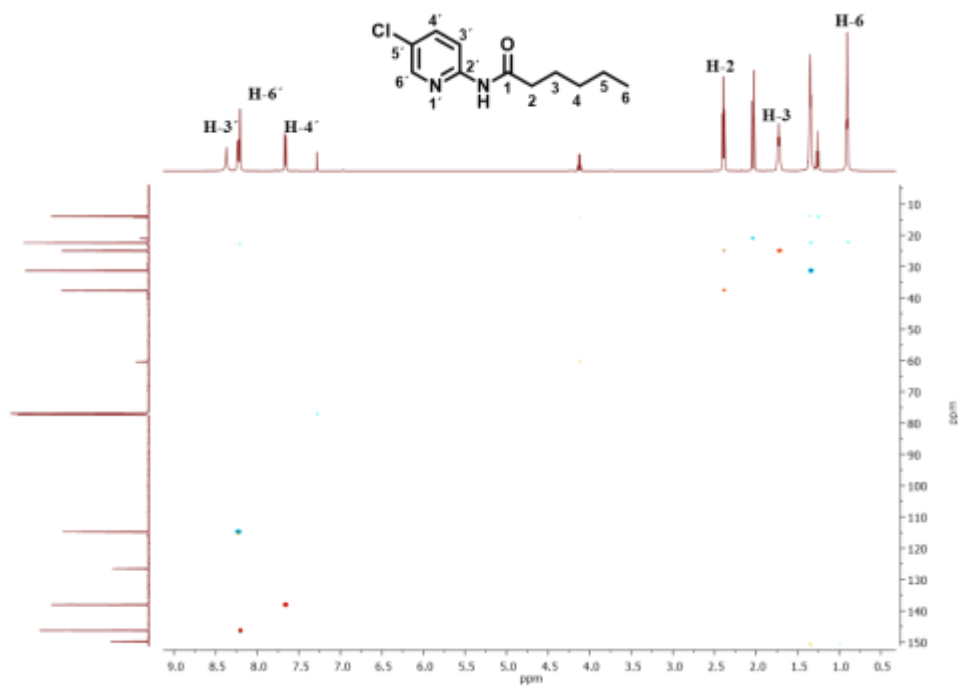


Figure S96. gHSQC spectrum of compound **19b**.

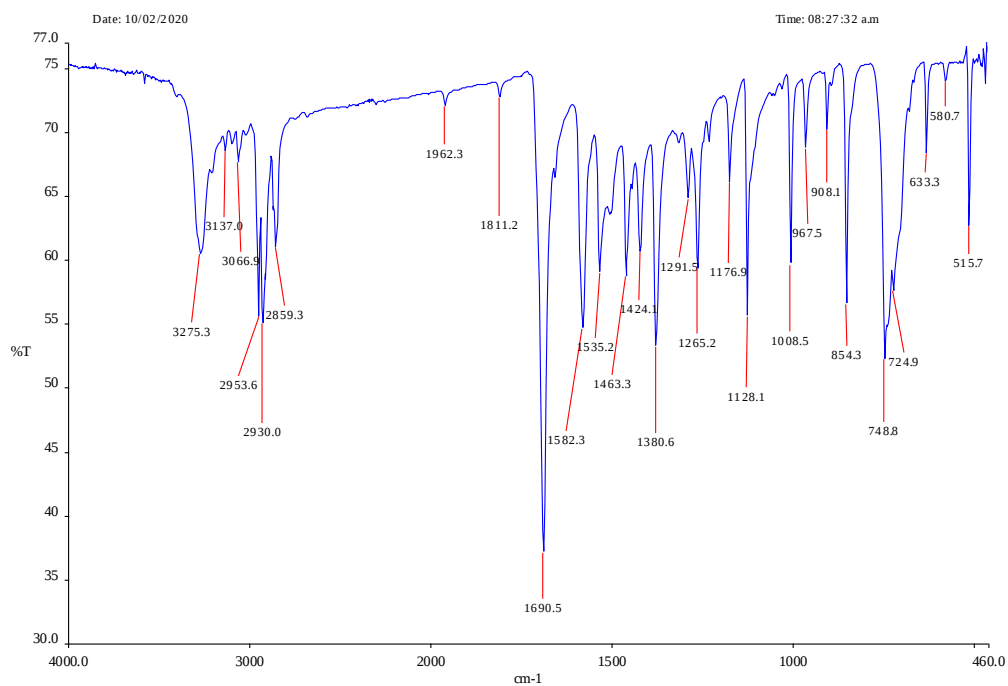


Figure S97. FT-IR spectrum of compound **19b**.

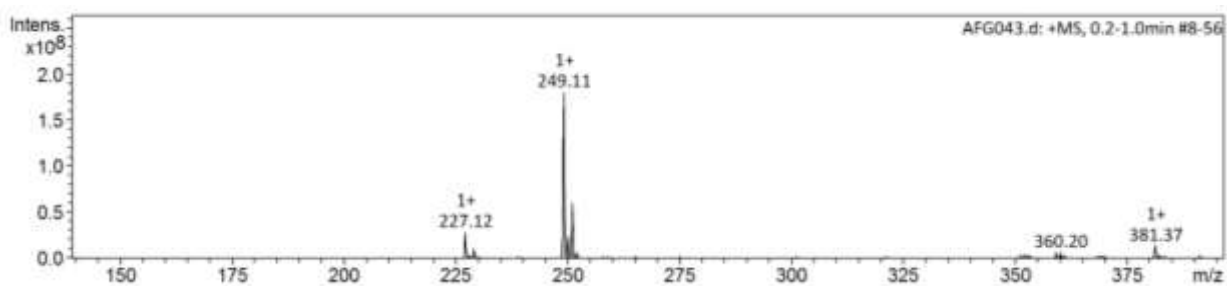


Figure S98. DIP-ESI-MS of compound **19b**.

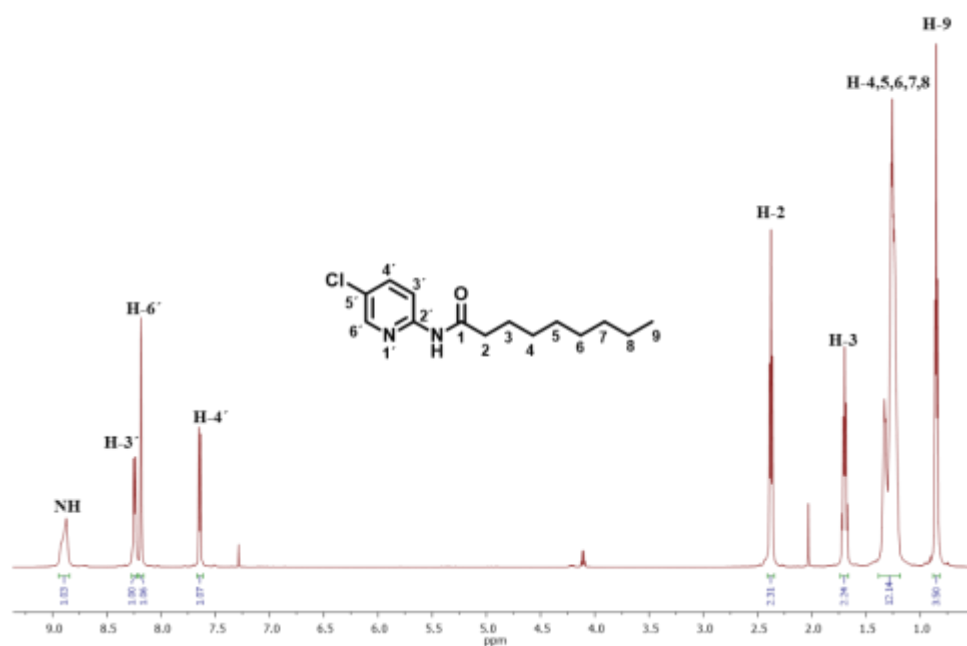


Figure S99. ¹H NMR spectrum of compound **19c** (600 MHz, CDCl₃).



Figure S100. ¹³C NMR spectrum of compound **19c** (150 MHz, CDCl₃).

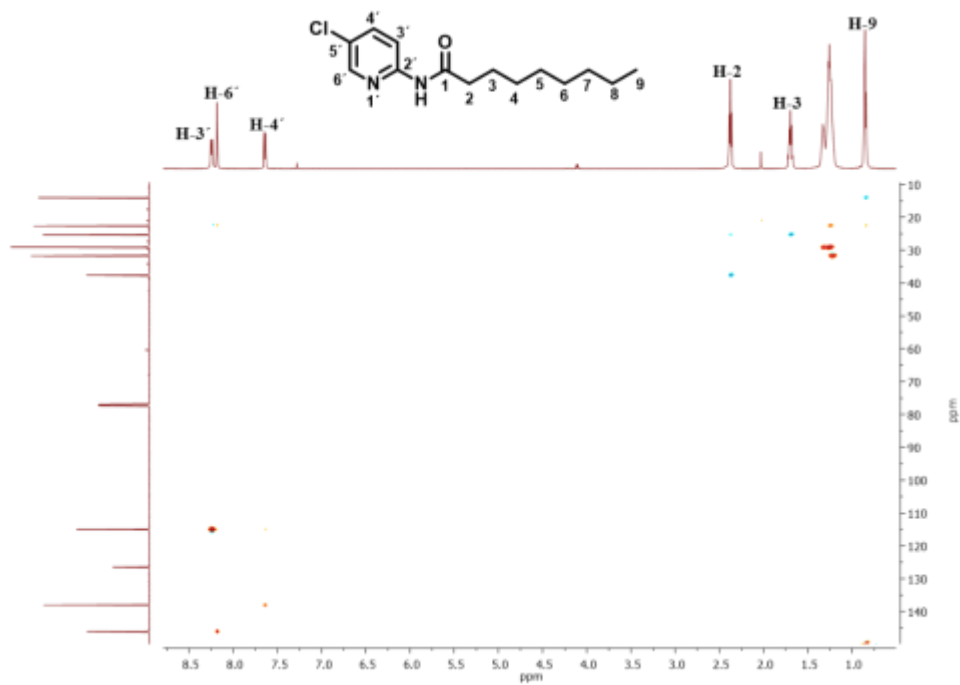


Figure S101. gHSQC spectrum of compound **19c**.

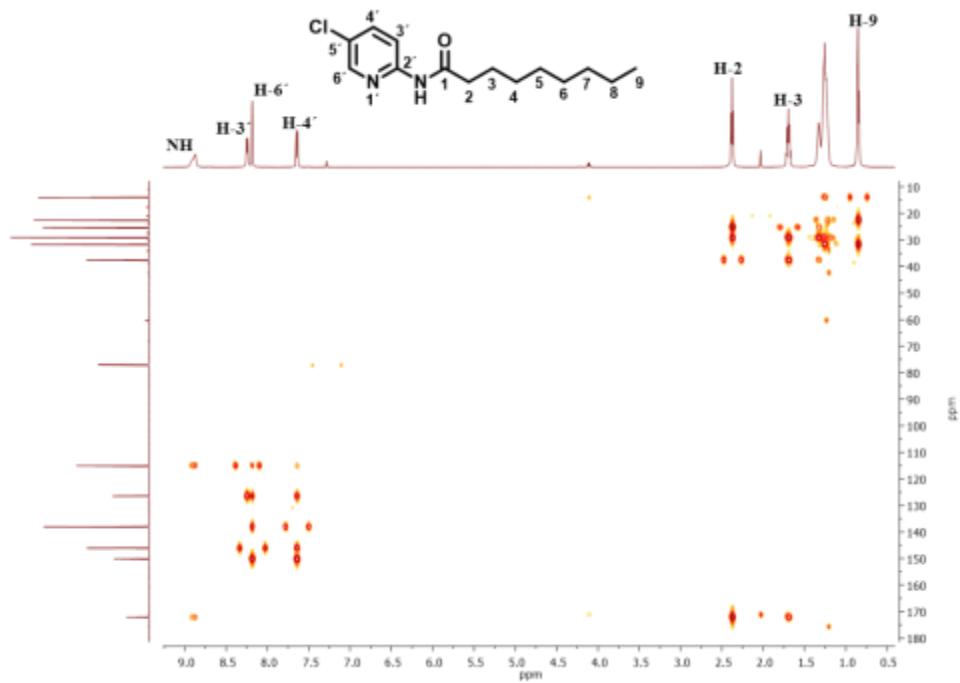


Figure S102. gHMBC spectrum of compound **19c**.

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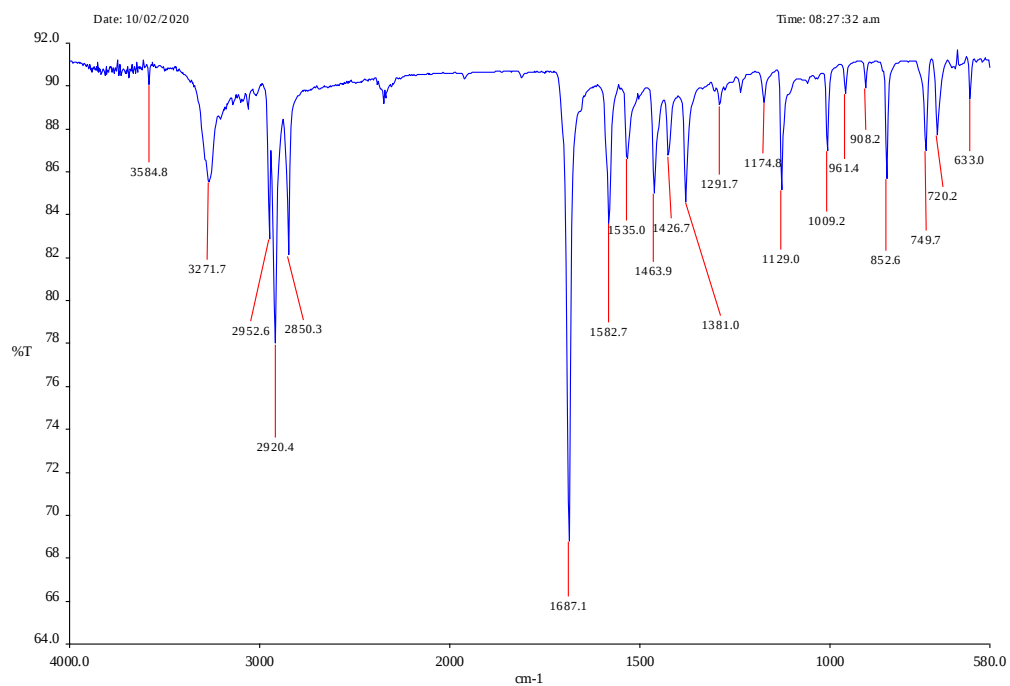


Figure S103. FT-IR spectrum of compound **19c**.

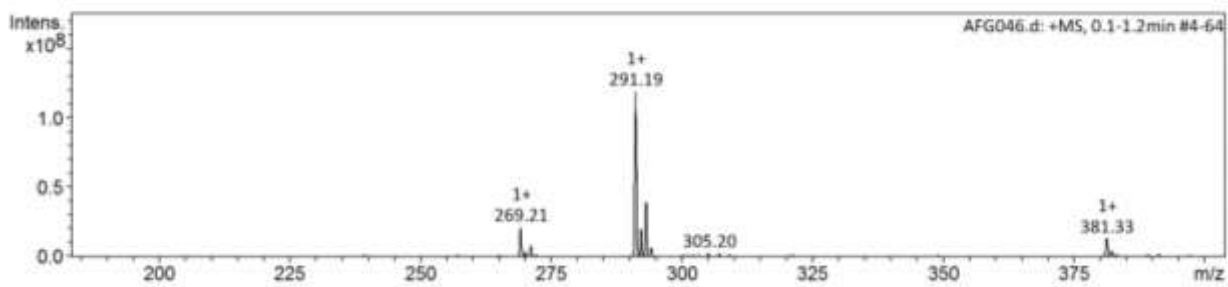


Figure S104. DIP-ESI-MS of compound **19c**.