Supporting Information

Pure water induced dehalogenation of 2,4-di-tert-amino-6-substituted-5-

halogenopyrimidines

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Contains:

Copies of ¹H NMR, ¹³C NMR, FTIR and Mass spectra as figures

- Total number of pages: 42 (S1 S42)
- Total number of figures: 74 (Figure S1 Figure S74)

Figure S1. ¹H NMR spectrum for compound 2a.

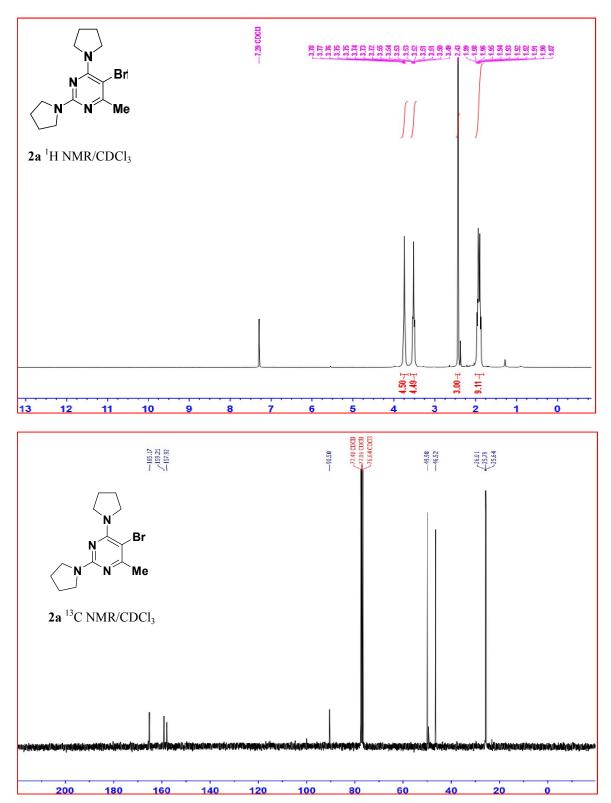


Figure S2. ¹³C NMR spectrum for compound 2a.

Figure S3. Mass spectrum for compound 2a.

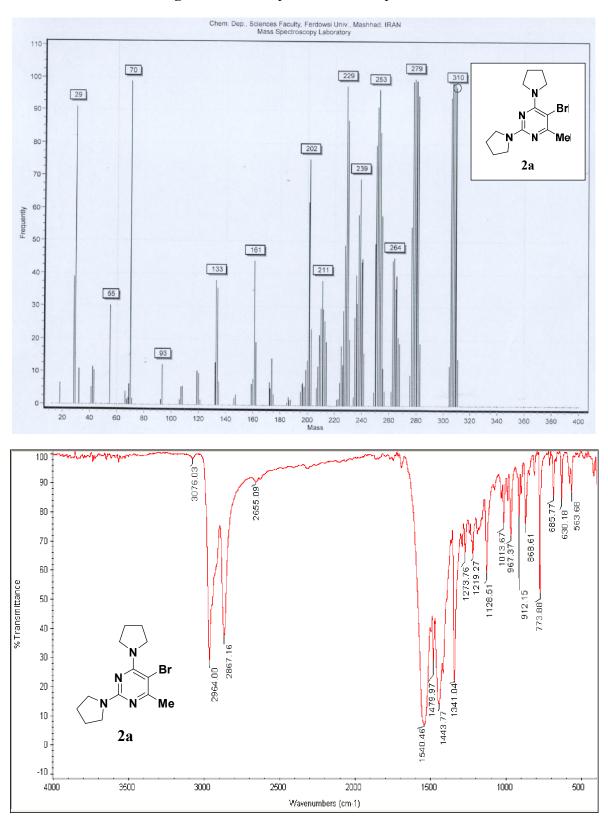


Figure S4. FTIR spectrum for compound 2a.

Figure S5. ¹H NMR spectrum for compound 2b.

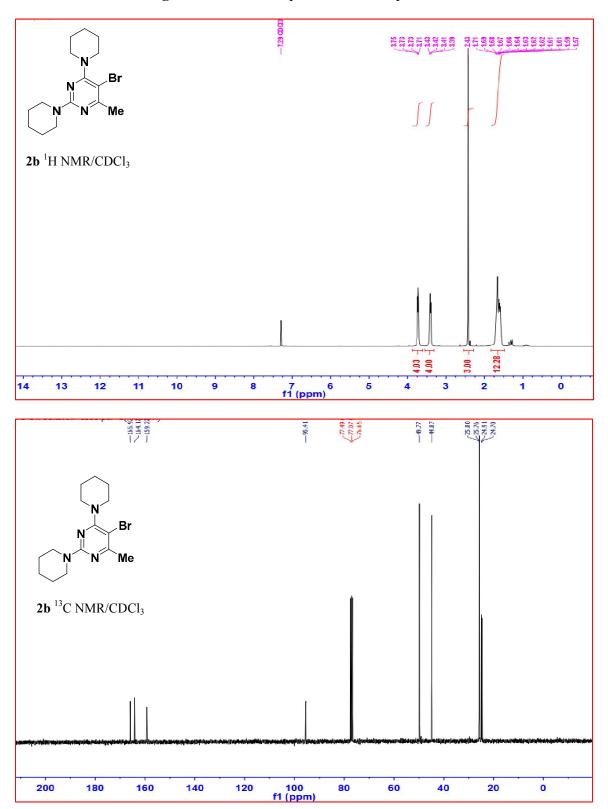


Figure S6. ¹³C NMR spectrum for compound 2b.

Figure S7. Mass spectrum for compound 2b.

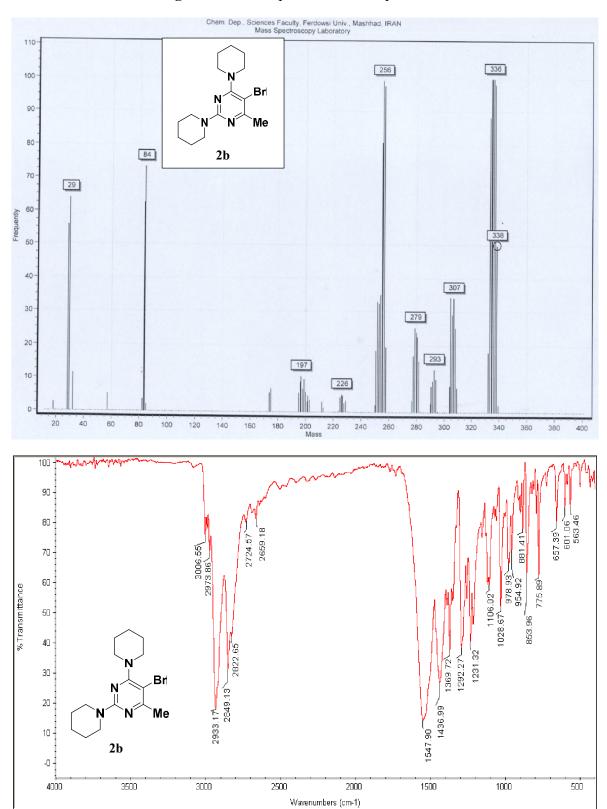


Figure S8. FTIR spectrum for compound 2b.

Figure S9. ¹H NMR spectrum for compound 2c

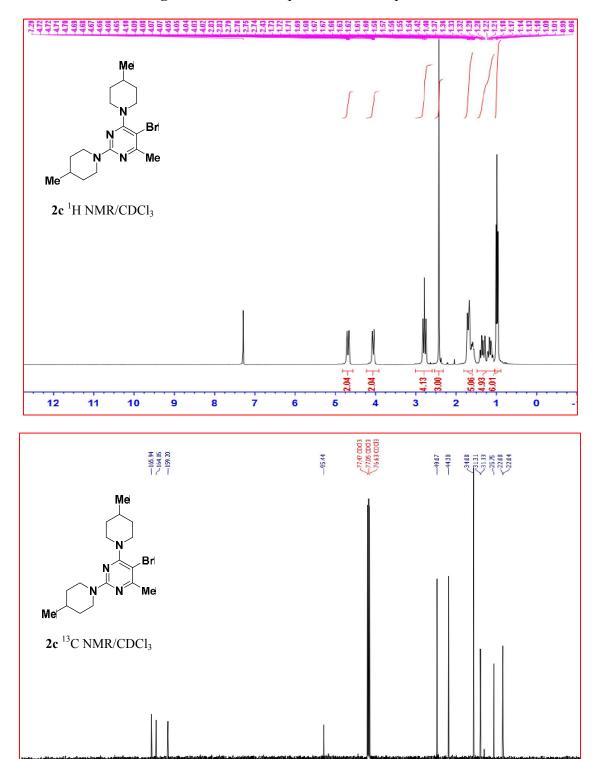


Figure S10. ¹³C NMR spectrum for compound 2c

200

180

100

Figure S11. Mass spectrum for compound 2c.

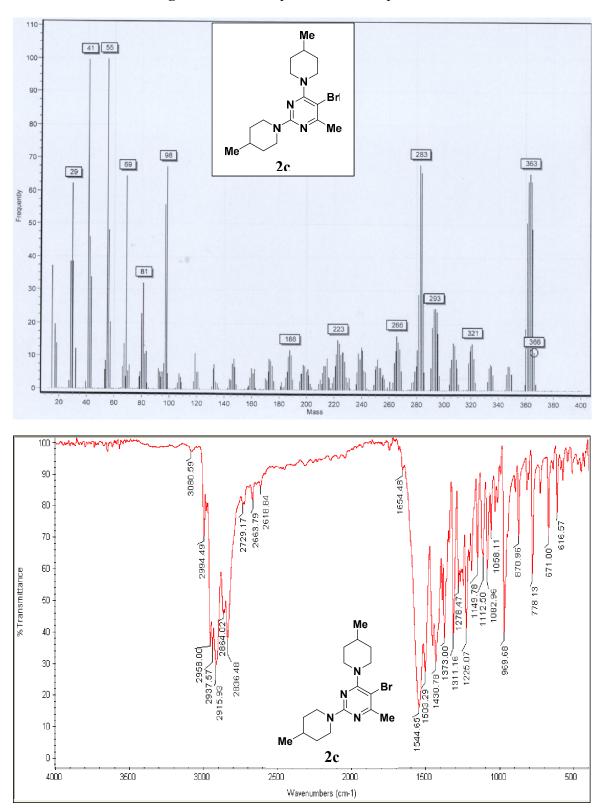


Figure S12. FTIR spectrum for compound 2c

Figure S13. ¹H NMR spectrum for compound 2d

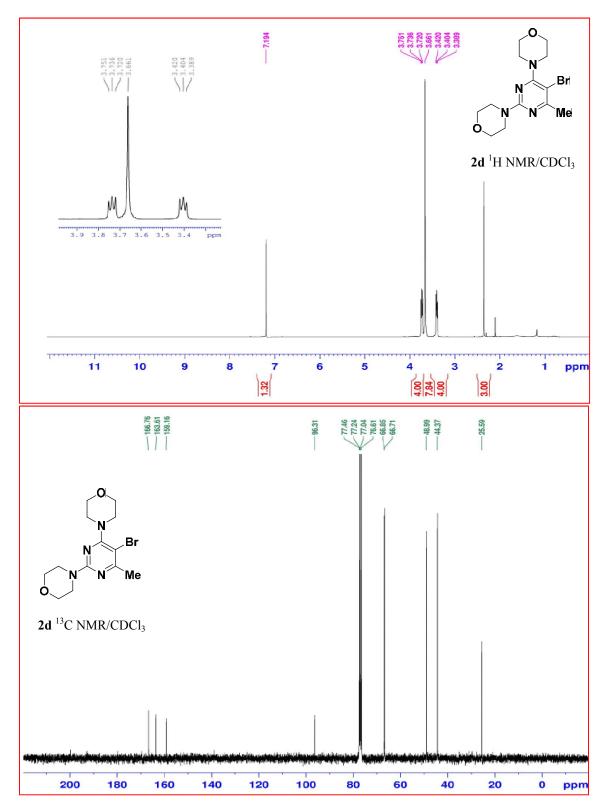


Figure S14. ¹³C NMR spectrum for compound 2d

Figure S15. Mass spectrum for compound 2d

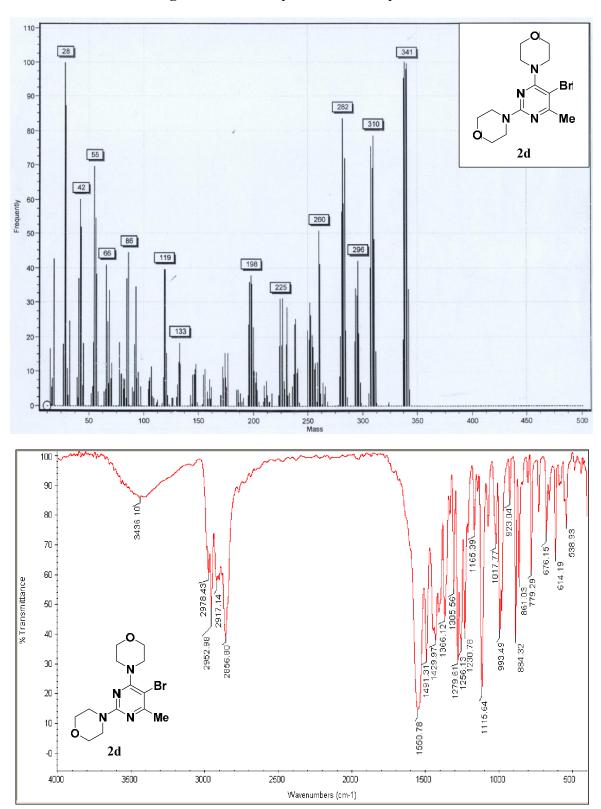
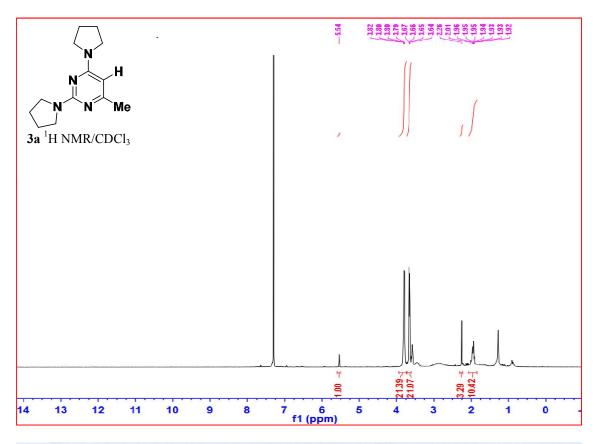


Figure S16. FTIR spectrum for compound 2d

Figure S17. ¹H NMR spectrum for compound 3a



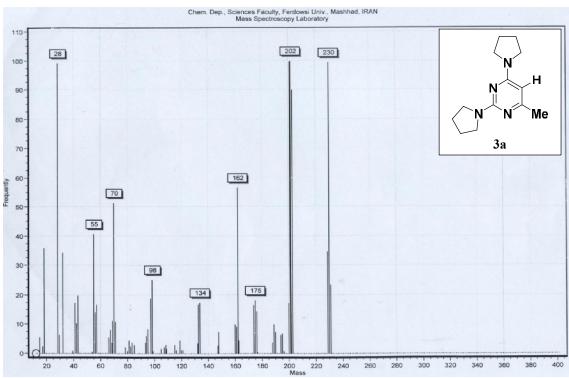


Figure S18. Mass spectrum for compound 3a

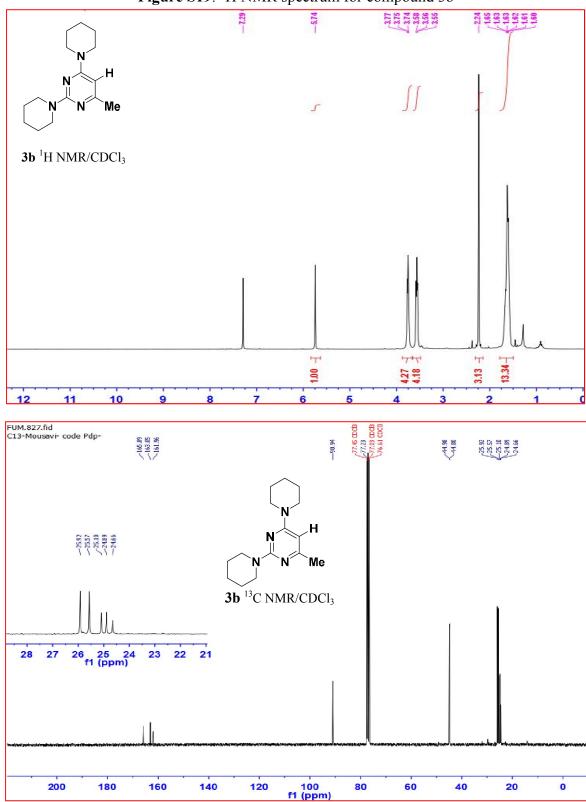


Figure S19. ¹H NMR spectrum for compound 3b

Figure S20. ¹³C NMR spectrum for compound 3b

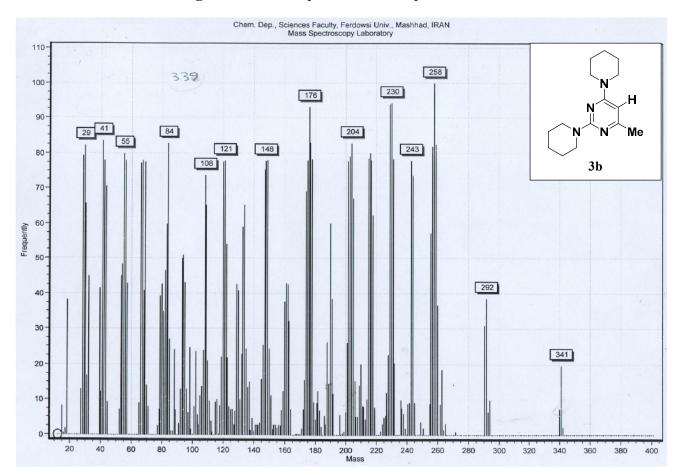


Figure S21. Mass spectrum for compound 3b

Figure S22. ¹H NMR spectrum for compound 3c

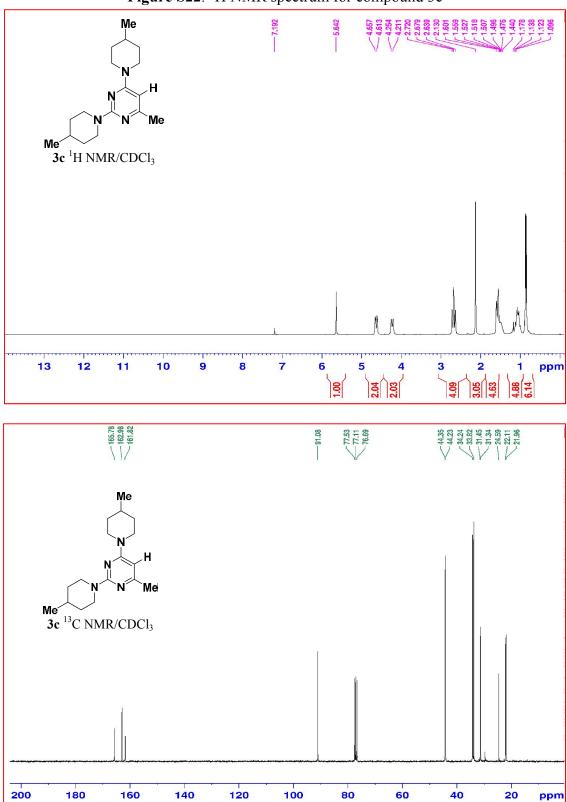


Figure S23. ¹³C NMR spectrum for compound 3c

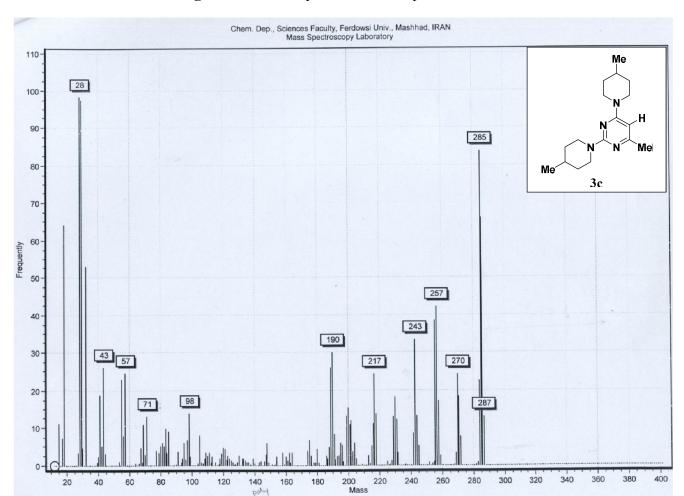


Figure S24. Mass spectrum for compound 3c

Figure S25. ¹H NMR spectrum for compound 3d.

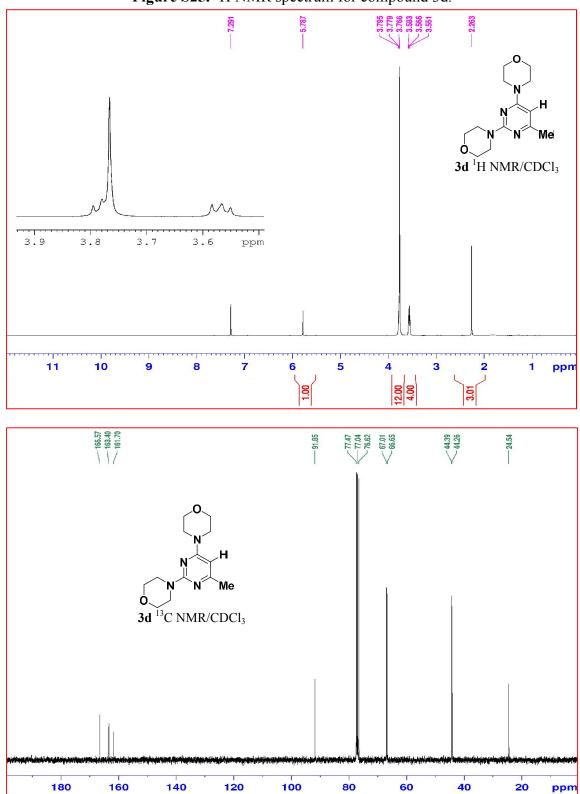


Figure S26. ¹³C NMR spectrum for compound 3d.

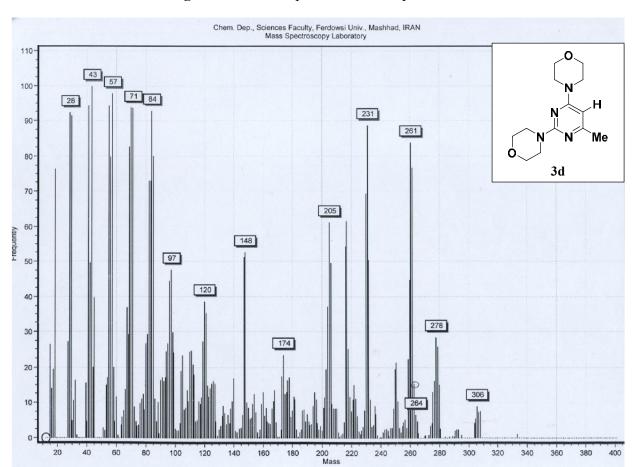


Figure S27. Mass spectrum for compound 3d.

Figure S28. ¹H NMR spectrum for compound 7a.

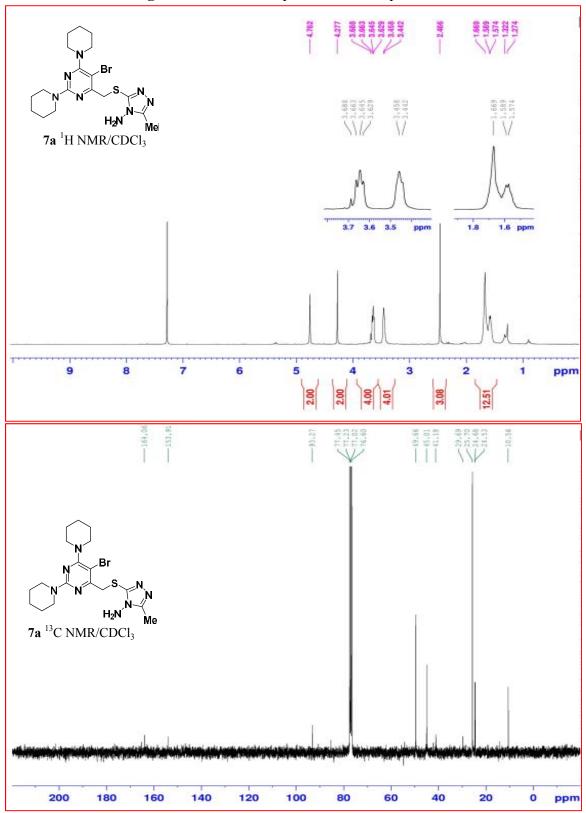


Figure S29. ¹³C NMR spectrum for compound 7a.

Figure S30. D₂O exchange – ¹H NMR spectrum for compound 7a.

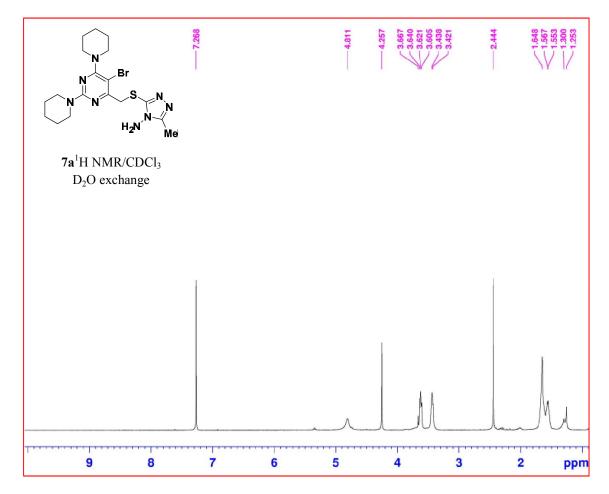


Figure S31. Mass spectrum for compound 7a.

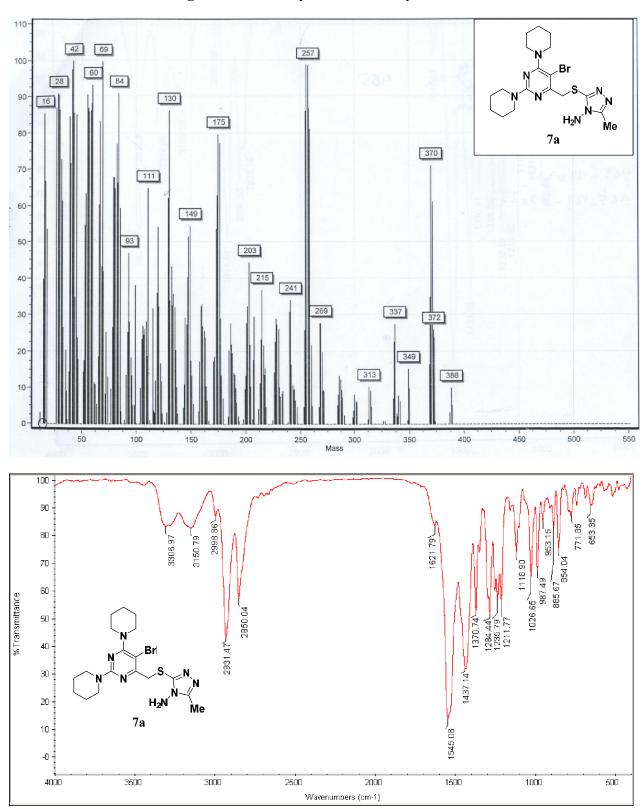


Figure S32. FTIR spectrum for compound 7a.

Figure S33. ¹H NMR spectrum for compound 7b.

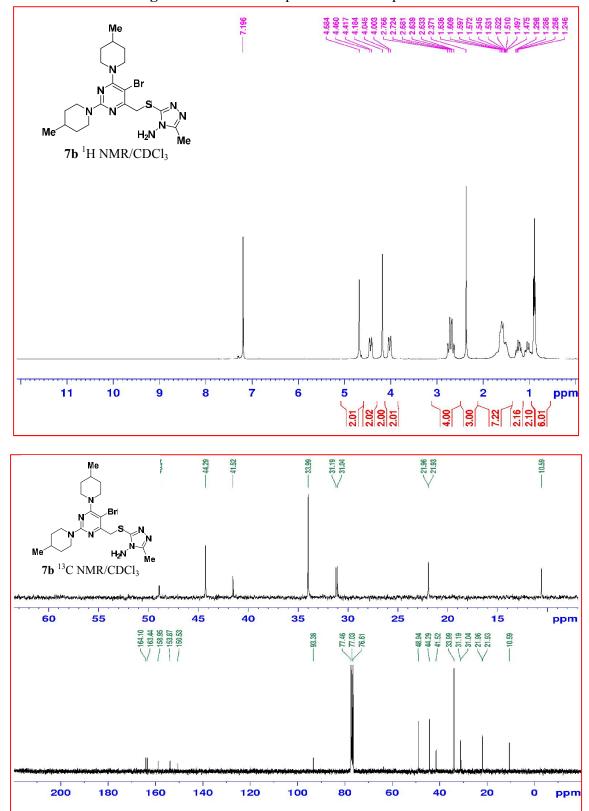


Figure S34. ¹³C NMR spectrum for compound 7b.

Figure S35. Mass spectrum for compound 7b.

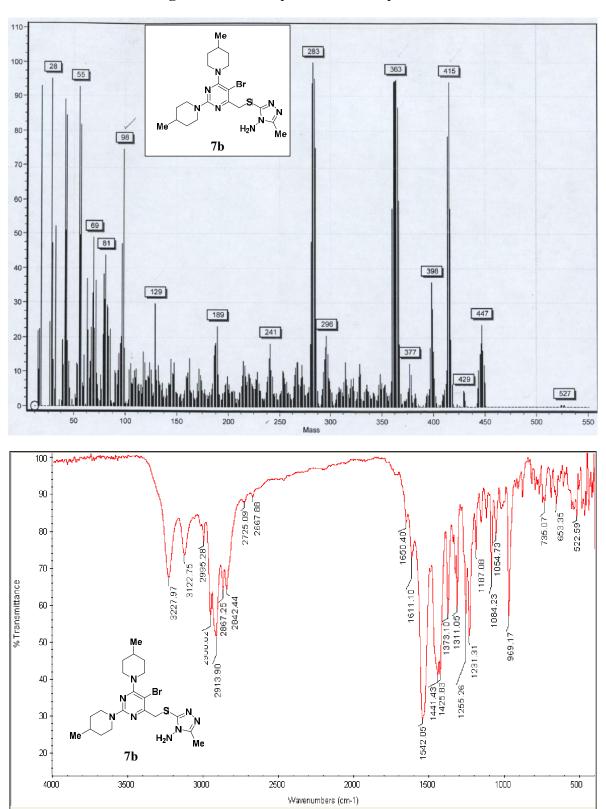


Figure S36. FTIR spectrum for compound 7b.

Figure S37. ¹H NMR spectrum for compound 7c.

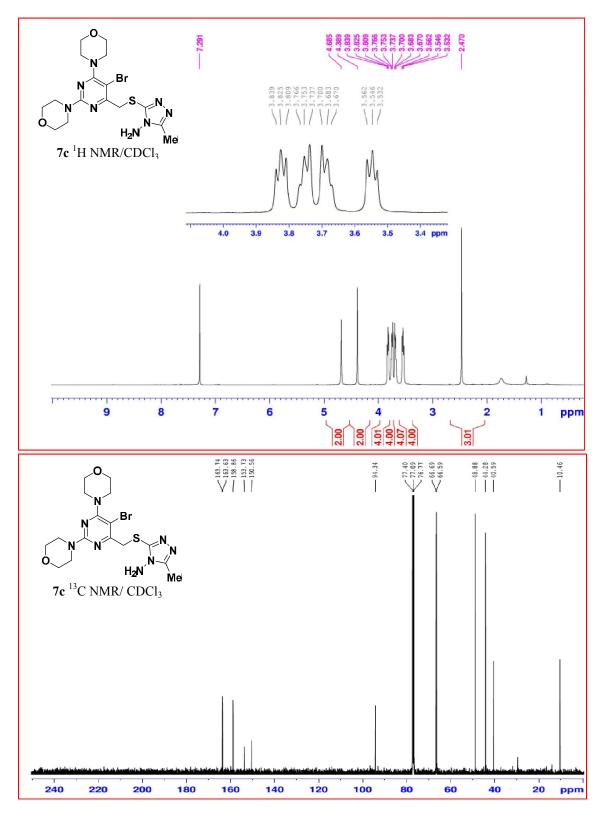


Figure S38. ¹³C NMR spectrum for compound 7c.



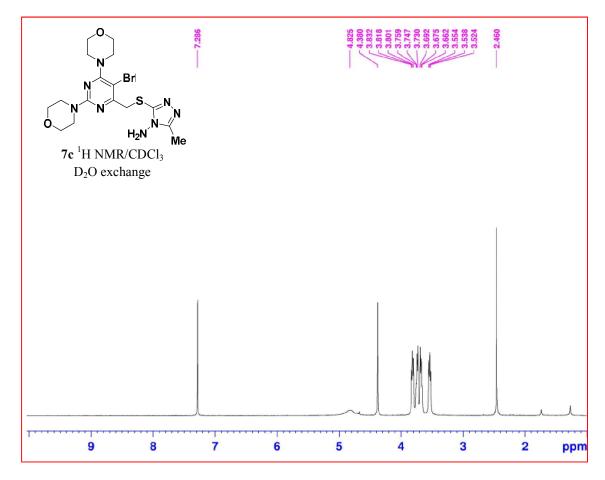


Figure S40. Mass spectrum for compound 7c.

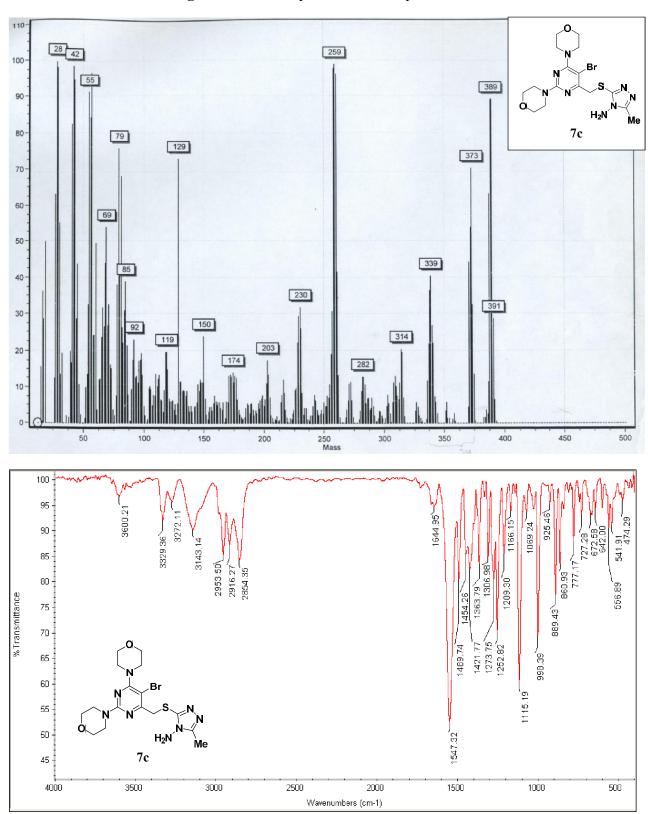


Figure S41. FTIR spectrum for compound 7c.

Figure S42. ¹H NMR spectrum for compound 7d.

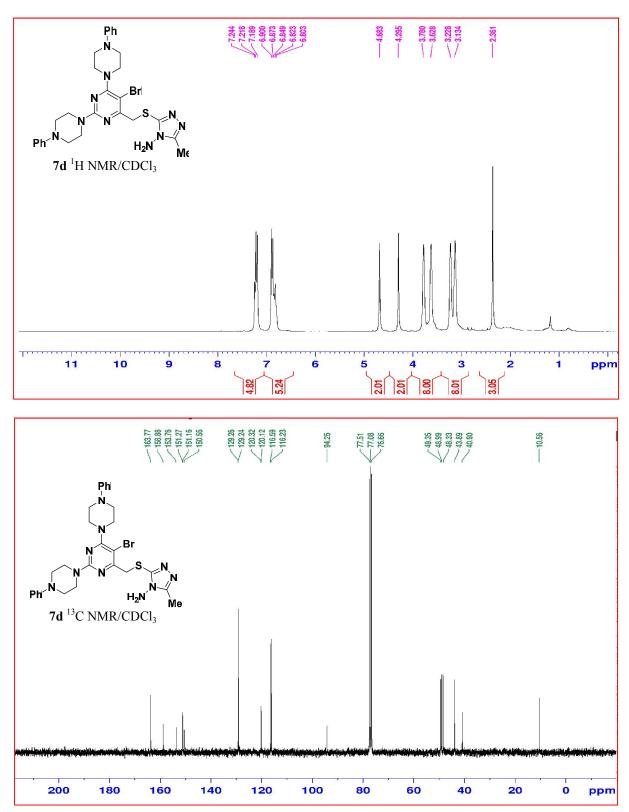


Figure S43. ¹³C NMR spectrum for compound 7d.

Figure S44. Mass spectrum for compound 7d.

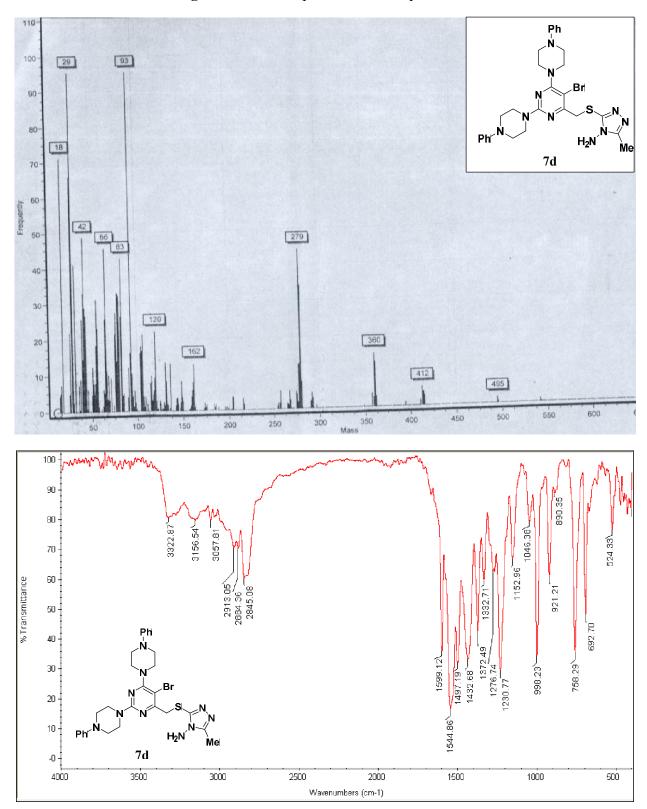


Figure S45. FTIR spectrum for compound 7d.

Figure S46. ¹H NMR spectrum for compound 7e.

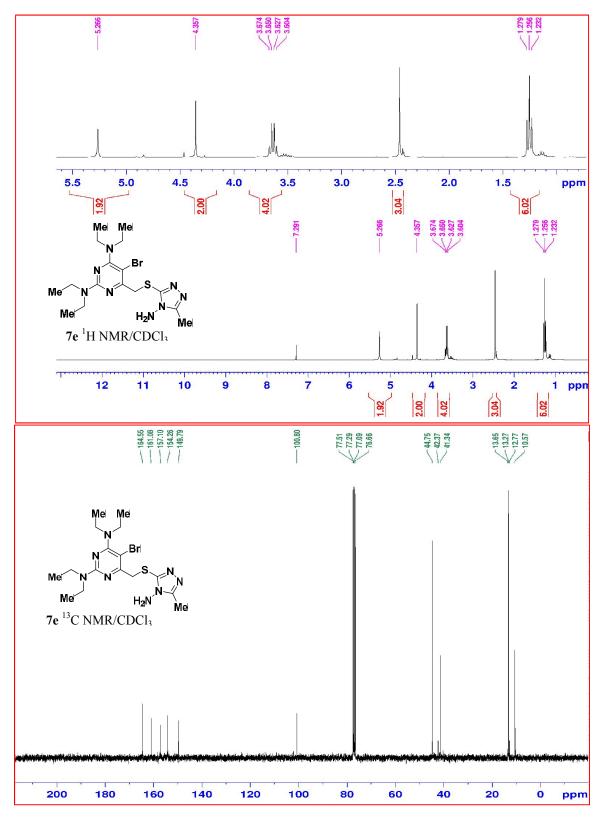


Figure S47. ¹³C NMR spectrum for compound 7e.

Figure S48. Mass spectrum for compound 7e.

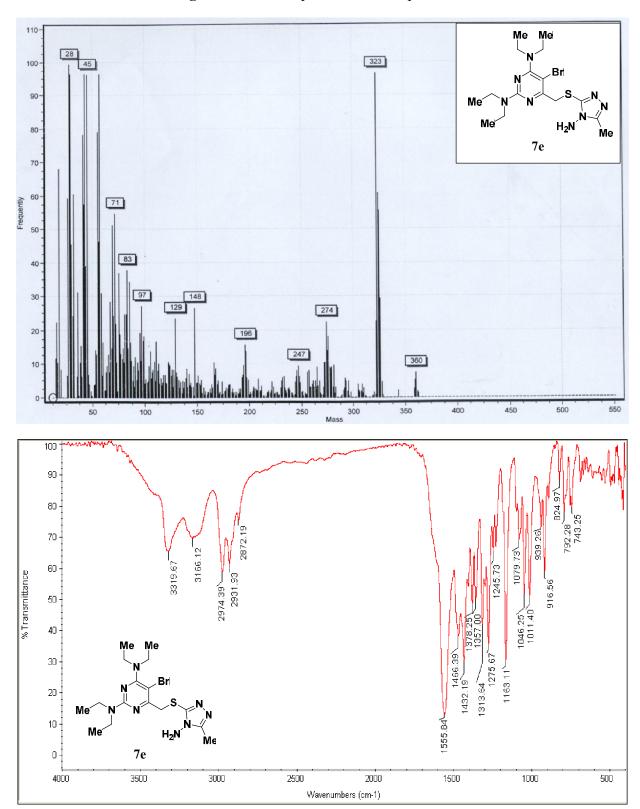


Figure S49. FTIR spectrum for compound 7e.

Figure S50. ¹H NMR spectrum for compound 8a.

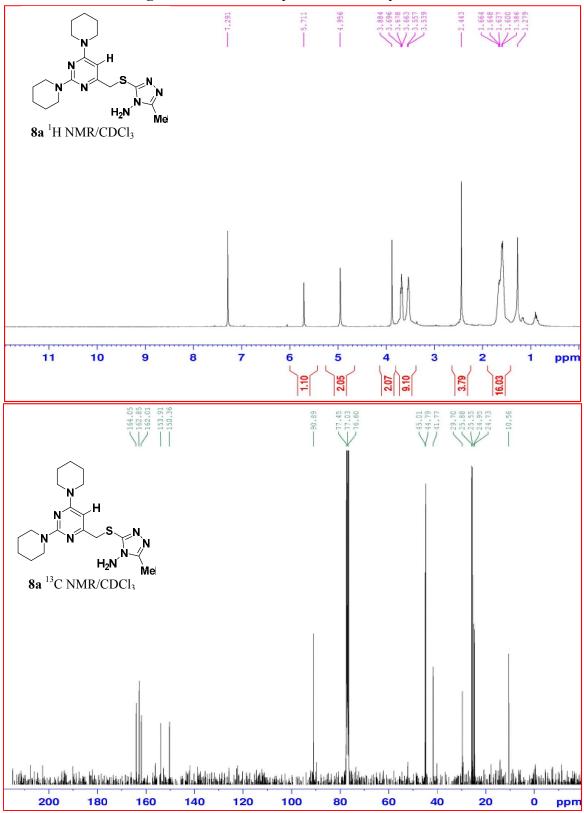


Figure S51. 13 C NMR spectrum for compound 8a.



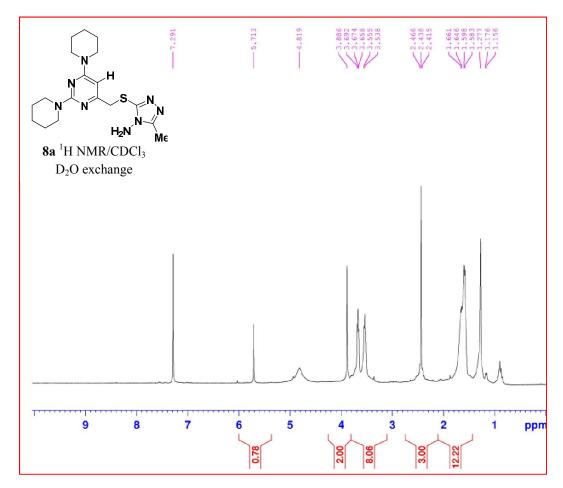


Figure S53. Mass spectrum for compound 8a.

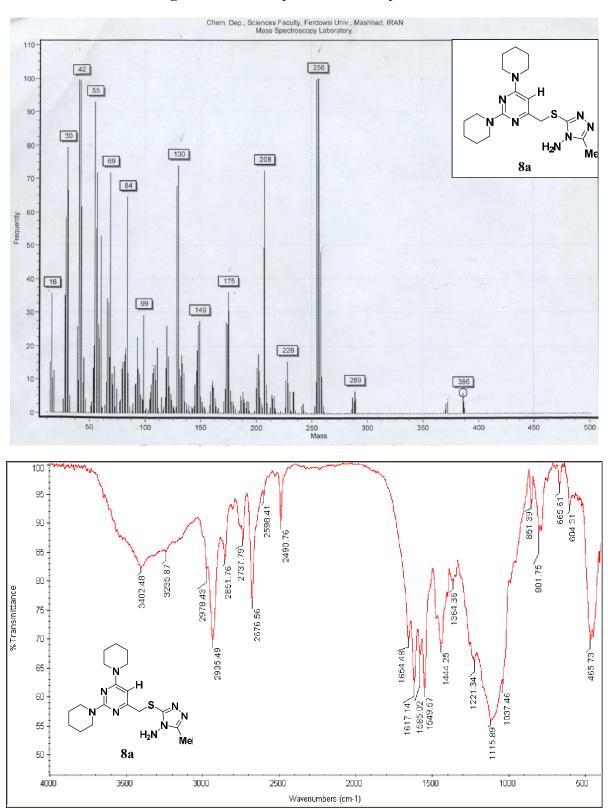


Figure S54. FTIR spectrum for compound 8a.

Figure S55. ¹H NMR spectrum for compound 8b.

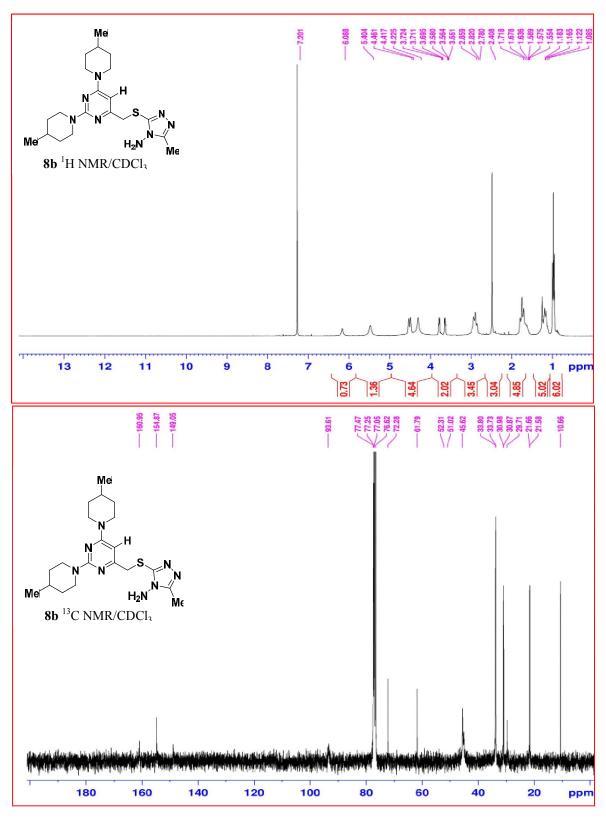


Figure S56. ¹³C NMR spectrum for compound 8b.

Figure S57. D₂O exchange-¹H NMR spectrum for compound 8b.

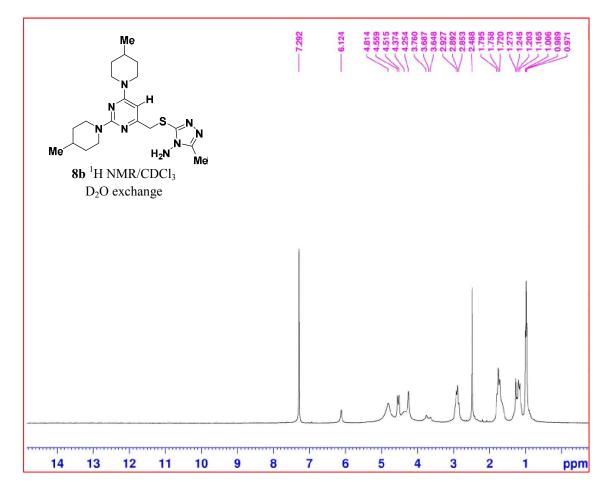


Figure S58. Mass spectrum for compound 8b

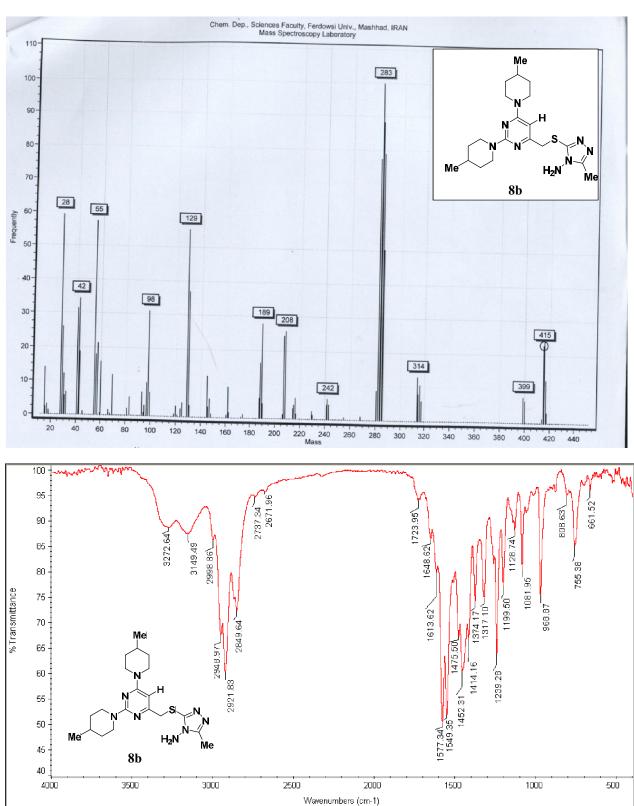


Figure S59. FTIR spectrum for compound 8b.

Figure S60. ¹H NMR spectrum for compound 8c.

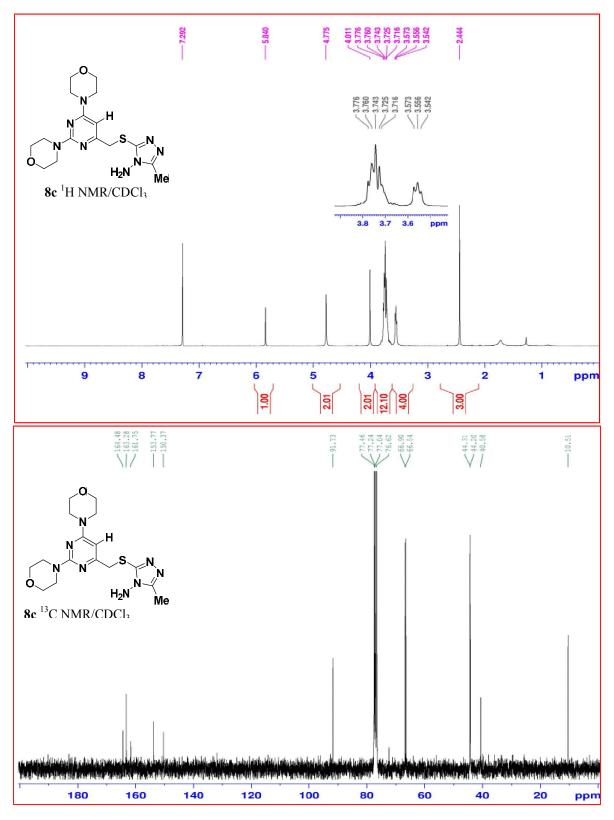


Figure S61. ¹³C NMR spectrum for compound 8c.



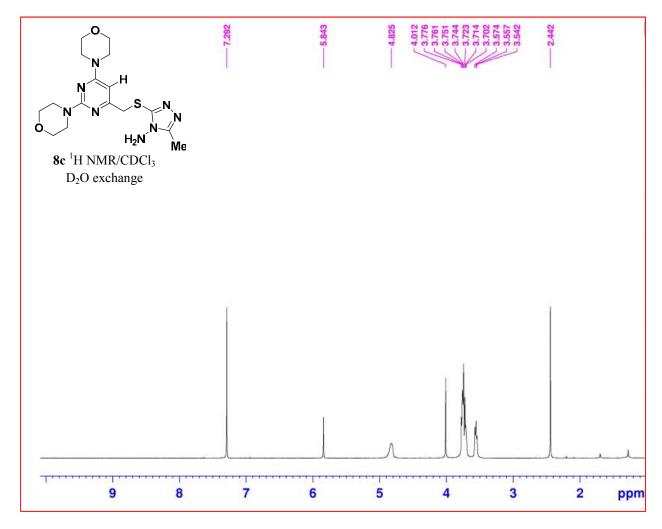


Figure S63. Mass spectrum for compound 8c.

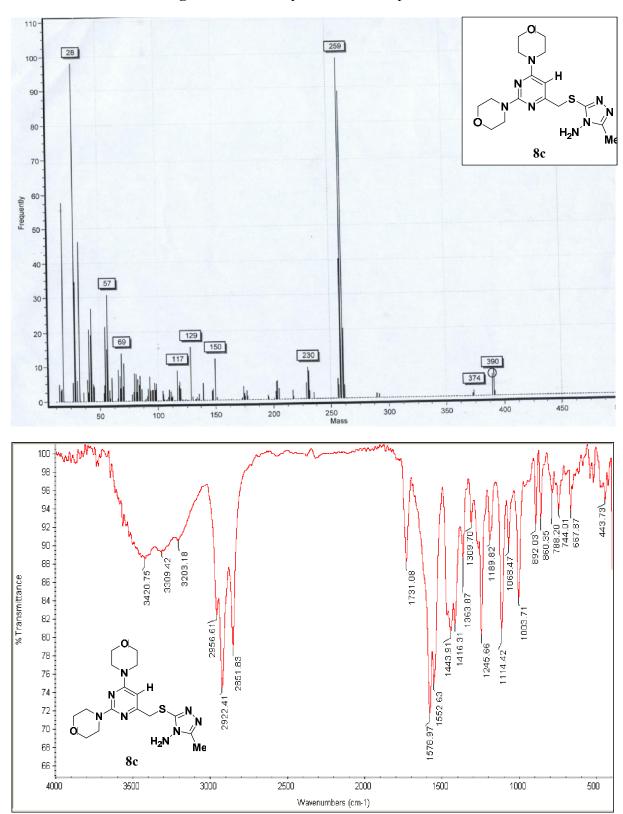


Figure S64. FTIR spectrum for compound 8c.

Figure S65. ¹H NMR spectrum for compound 8d.

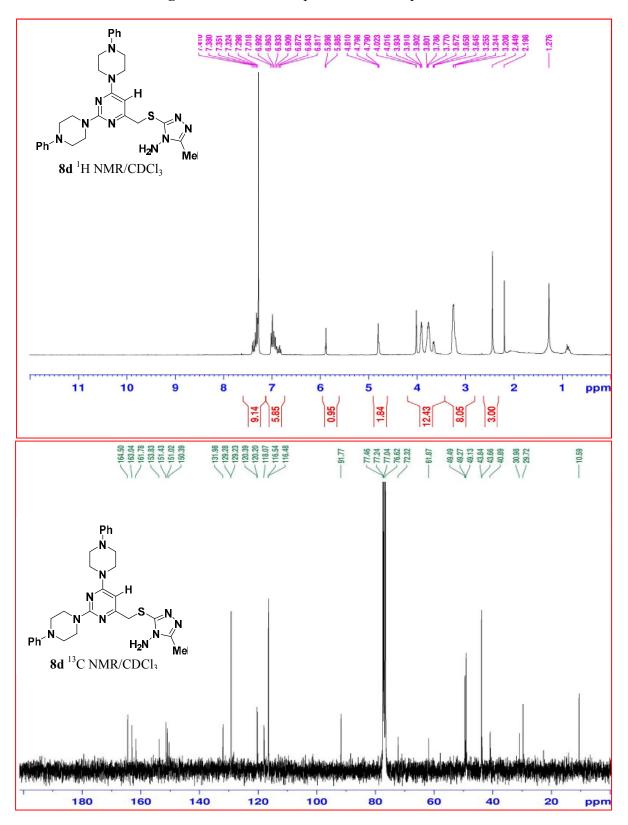


Figure S66. ¹³C NMR spectrum for compound 8d.

Figure S67. Mass spectrum for compound 8d.

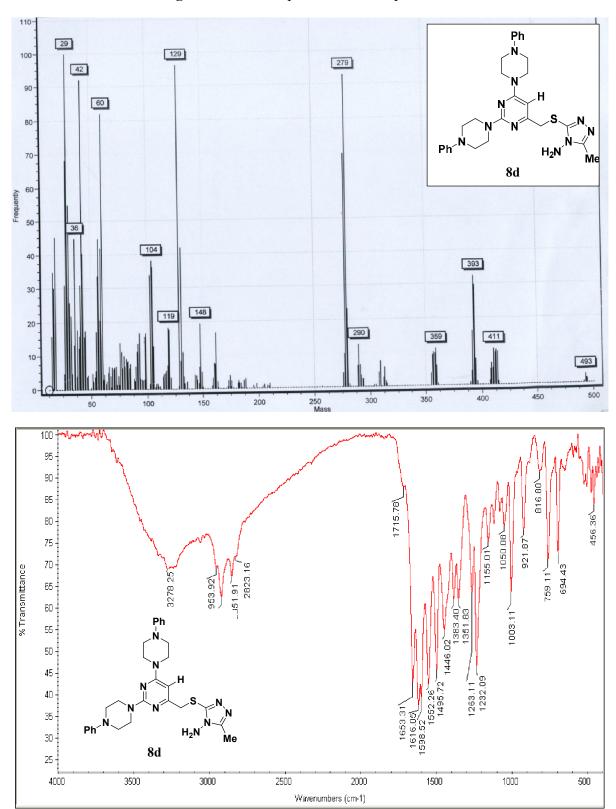


Figure S68. FTIR spectrum for compound 8d.

Figure S69. ¹H NMR spectrum for compound 8e.

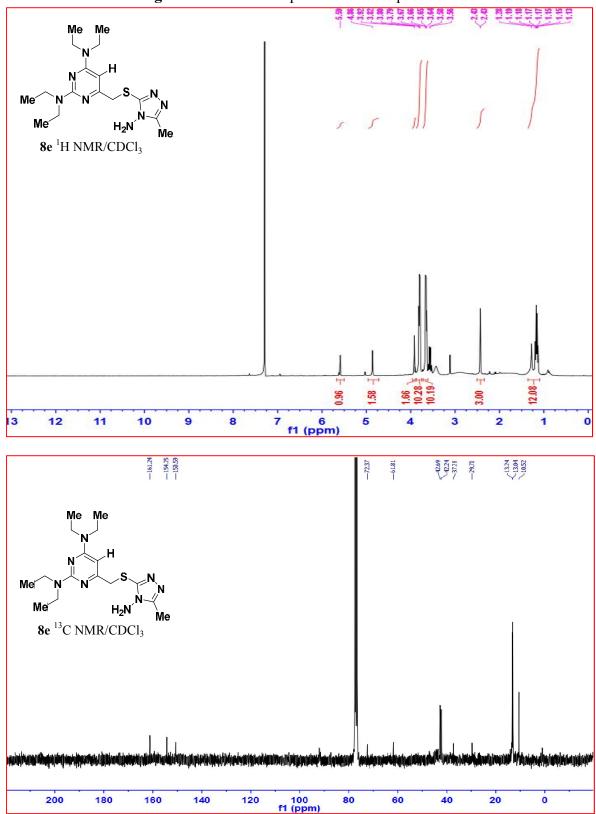


Figure S70. ¹³C NMR spectrum for compound 8e.

Figure S71. Mass spectrum for compound 8e.

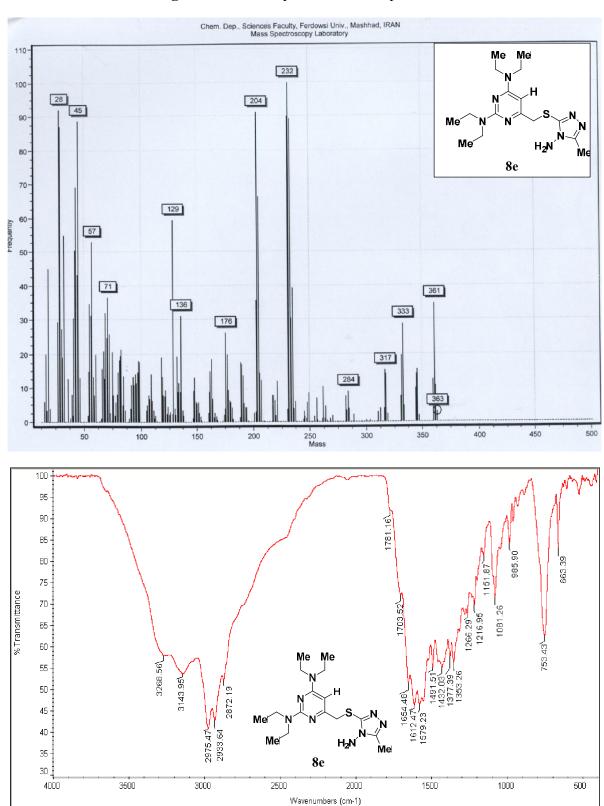


Figure S72. FTIR spectrum for compound 8e.

Figure S73. ¹H NMR spectrum for compound 10.

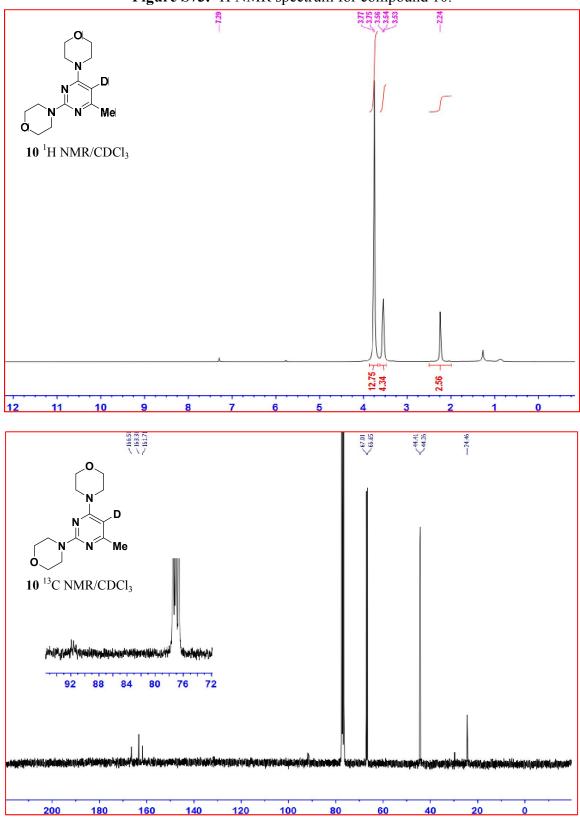


Figure S74. ¹³C NMR spectrum for compound 10