

Supplementary Material

Synthesis of furo[2',3':4,5]pyrrolo[1,2-*d*][1,2,4]triazine derivatives and their antibacterial activity

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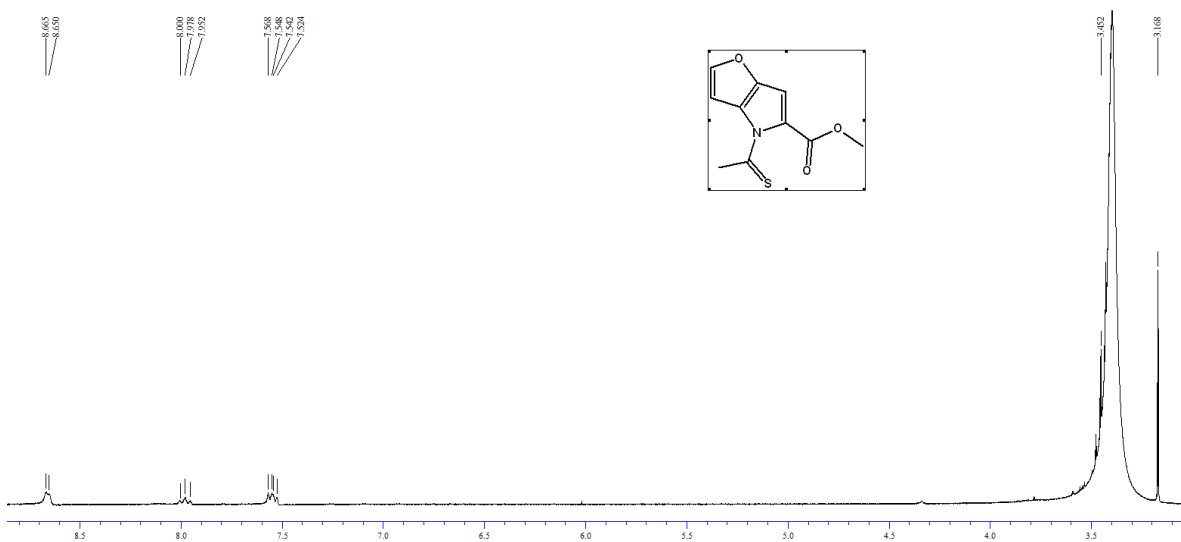


Figure S1. ^1H NMR (300 MHz, $\text{DMSO}-d_6$) of compound 4.

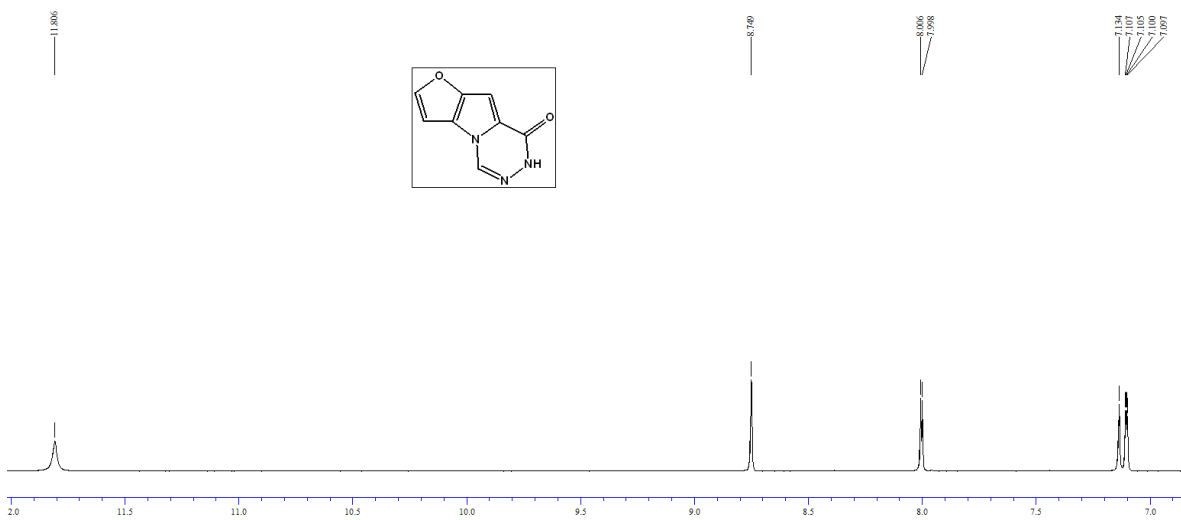


Figure S2. ^1H NMR (300 MHz, $\text{DMSO}-d_6$) of compound 5a.

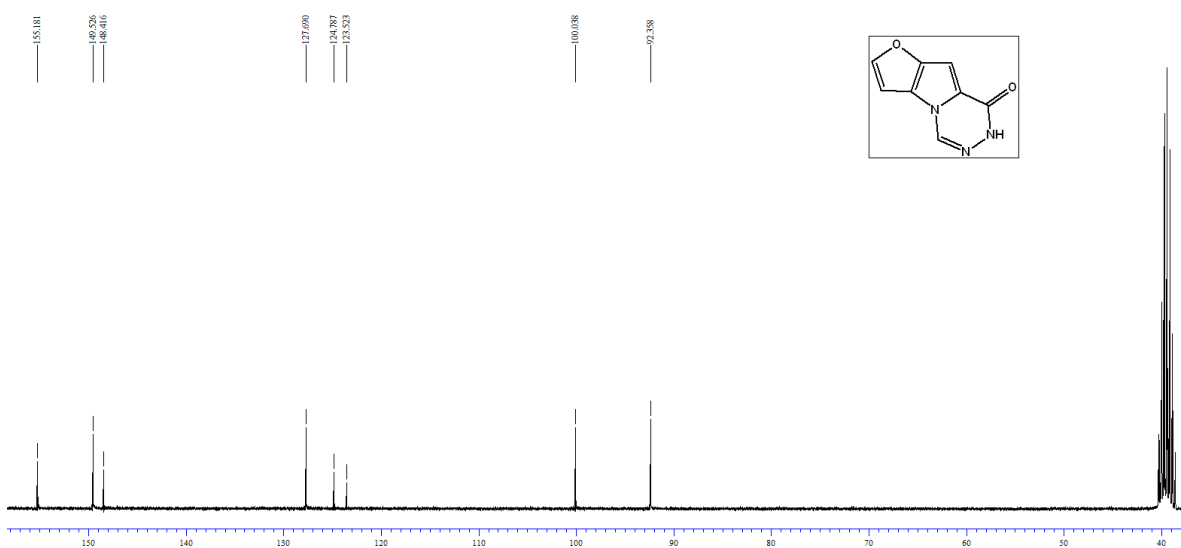


Figure S3. ^{13}C NMR spectrum (75 MHz, DMSO- d_6) of compound 5a.

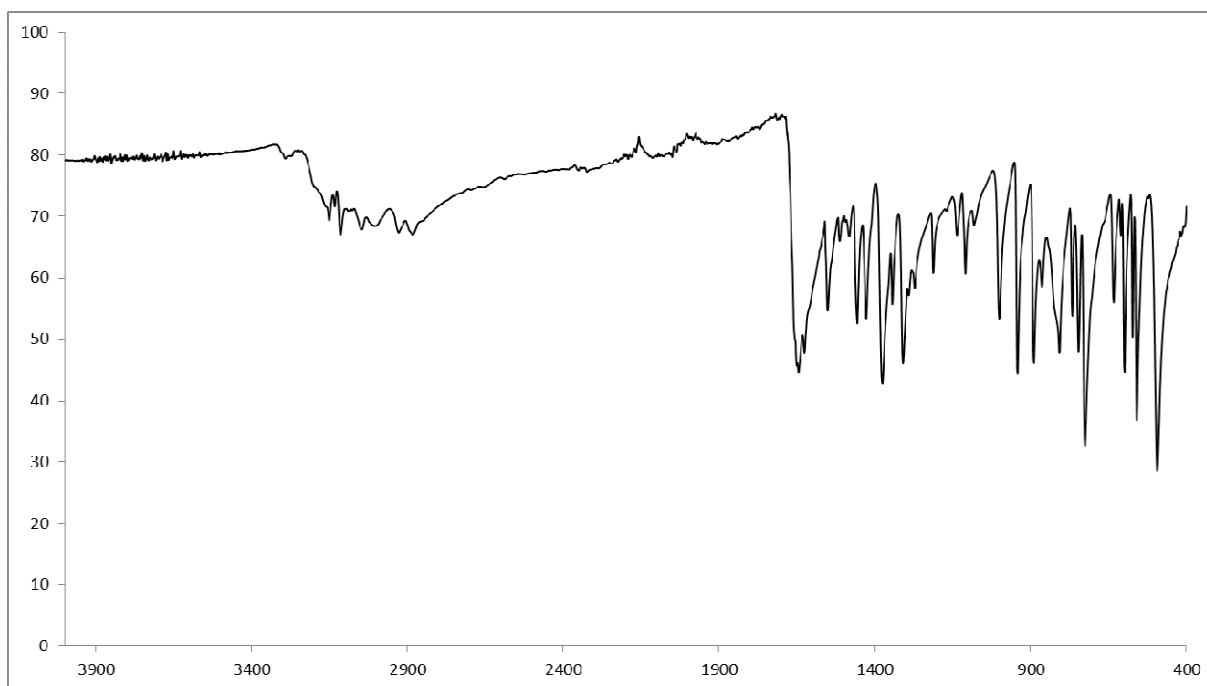


Figure S4. FTIR (KBr) spectrum of compound 5a.

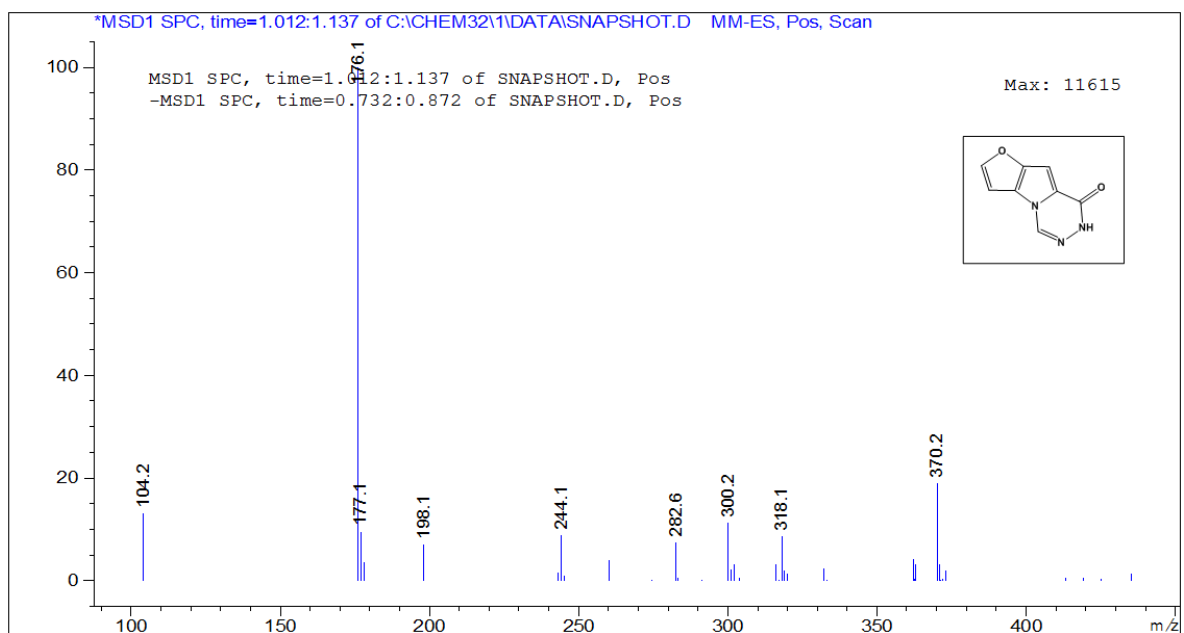


Figure S5. MS (ESI+) spectrum of compound 5a.

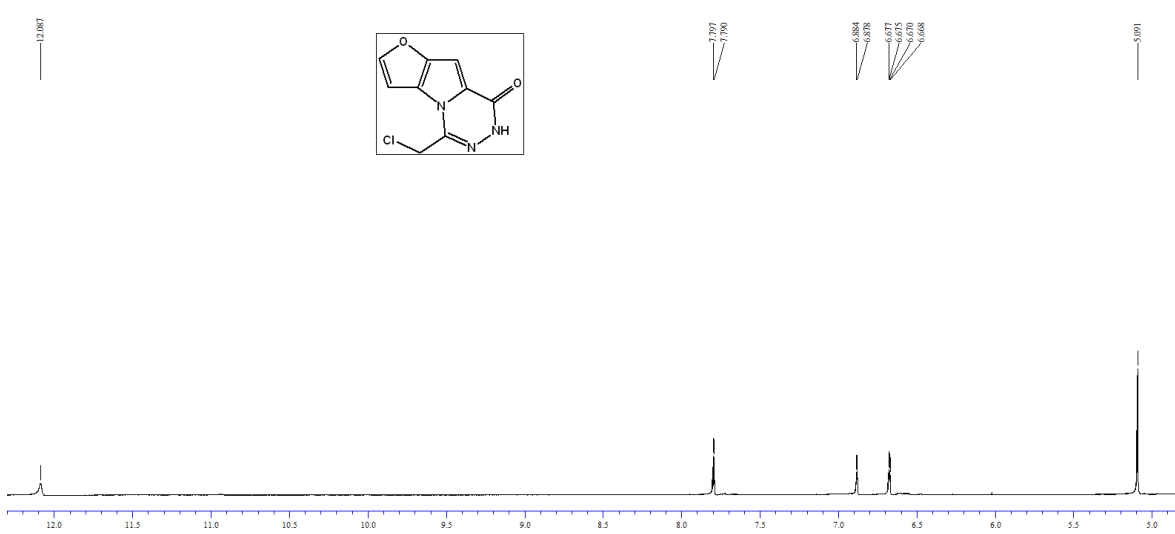


Figure S6. ^1H NMR (300 MHz, $\text{DMSO}-d_6$) of compound 5b.

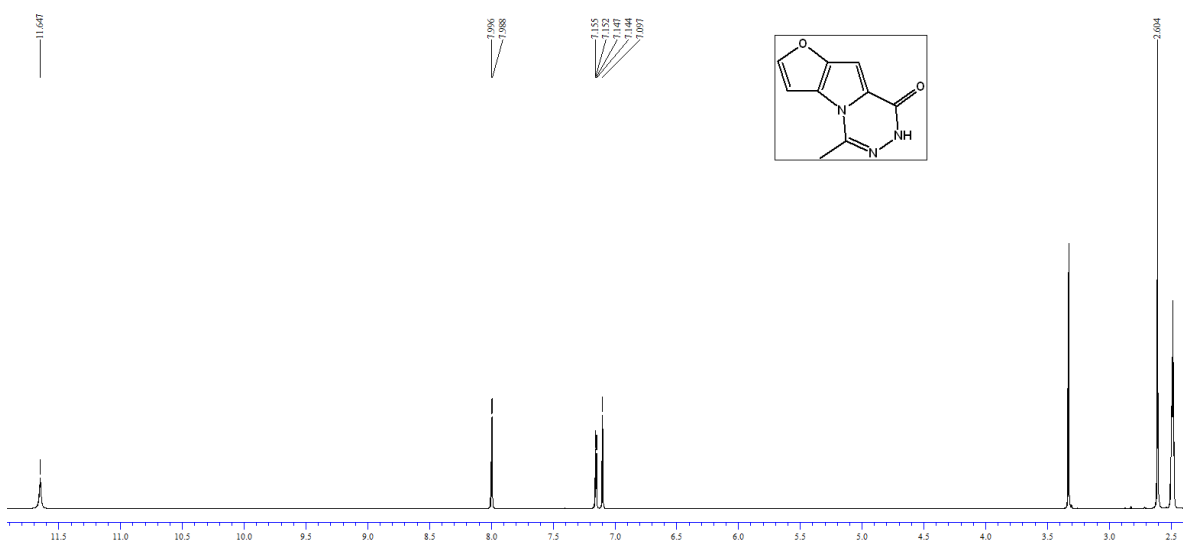


Figure S7. ¹H NMR (300 MHz, DMSO-*d*₆) of compound 5c (method A).

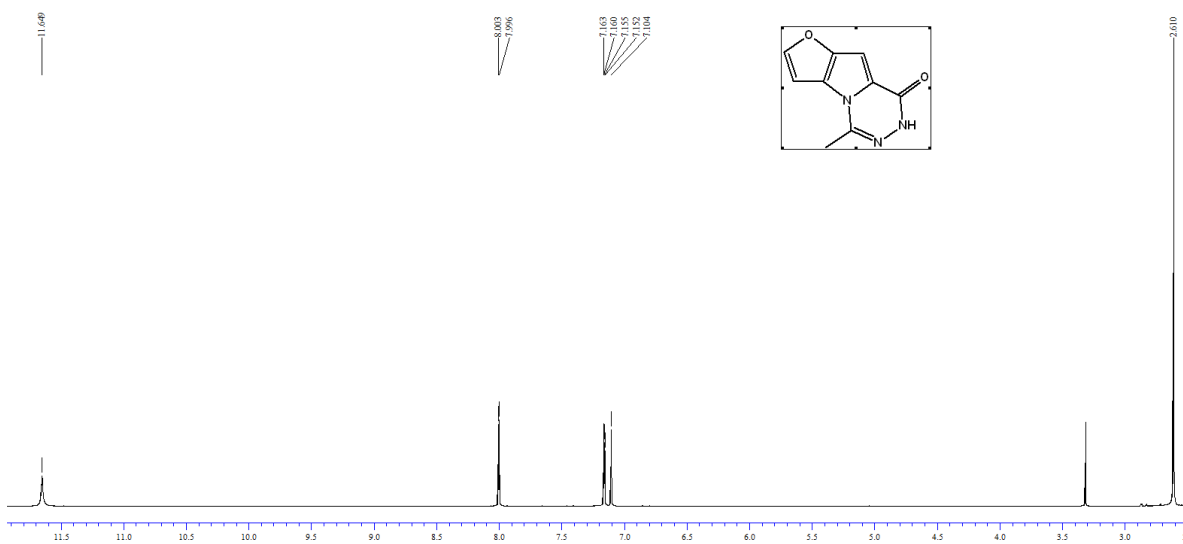


Figure S8. ¹H NMR (300 MHz, DMSO-*d*₆) of compound 5c (method B).

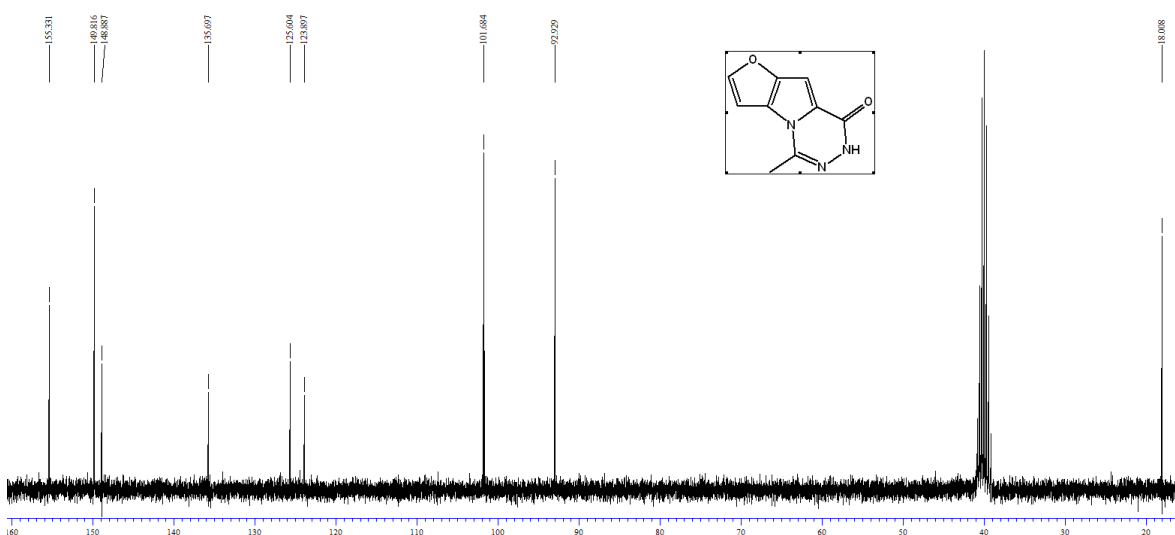


Figure S9. ^{13}C NMR spectrum (75 MHz, $\text{DMSO-}d_6$) of compound **5c** (method B).

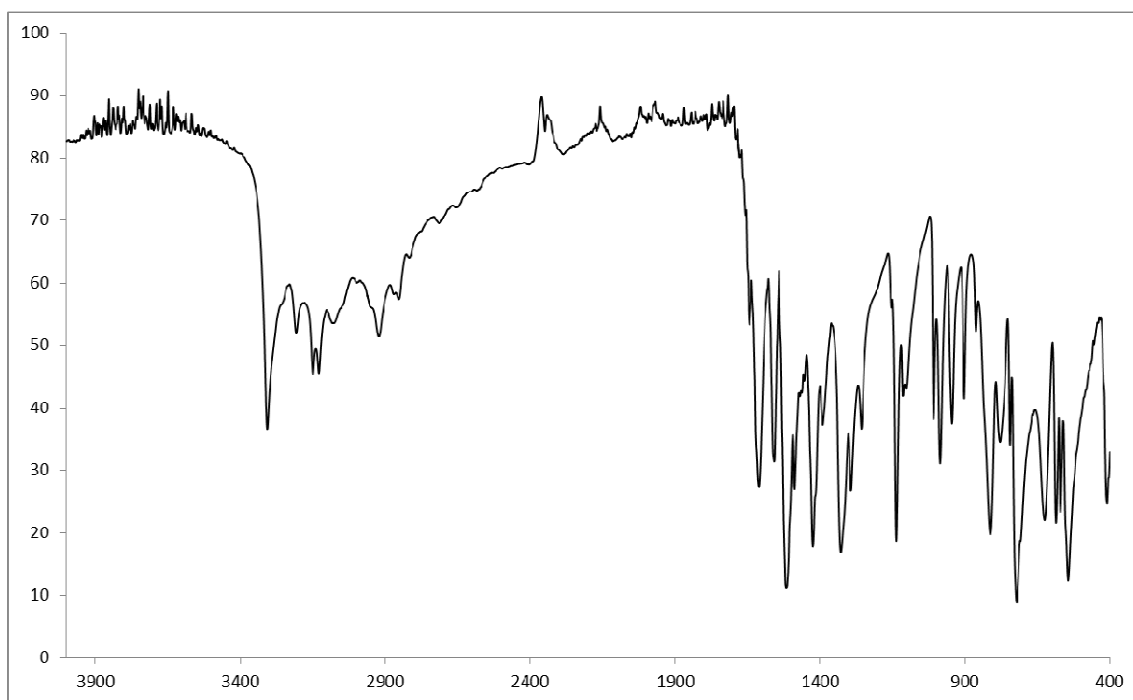


Figure S10. FTIR (KBr) spectrum of compound **5c** (method B).

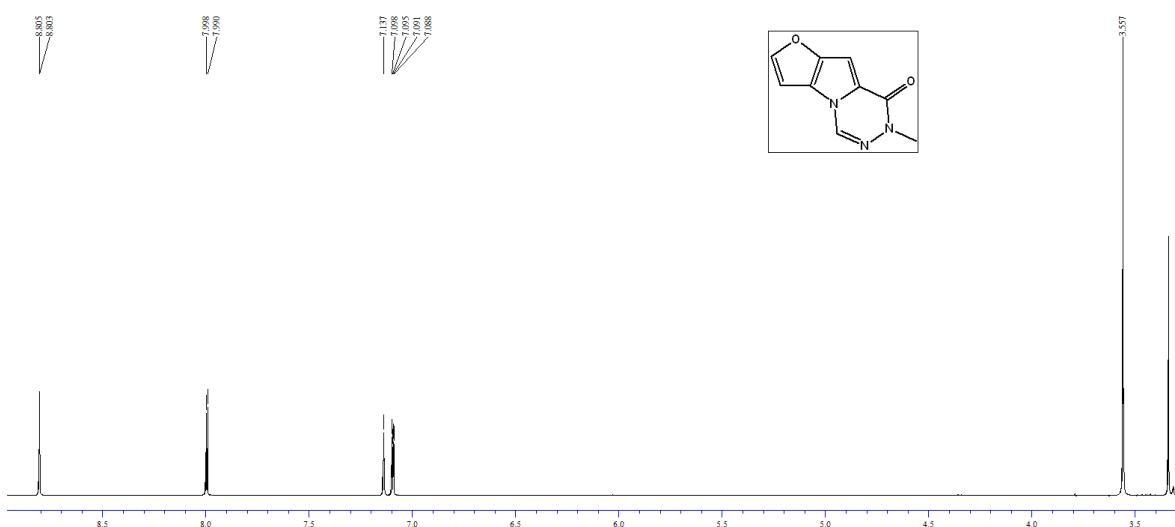


Figure S11. ^1H NMR (300 MHz, $\text{DMSO}-d_6$) of compound **6a**.

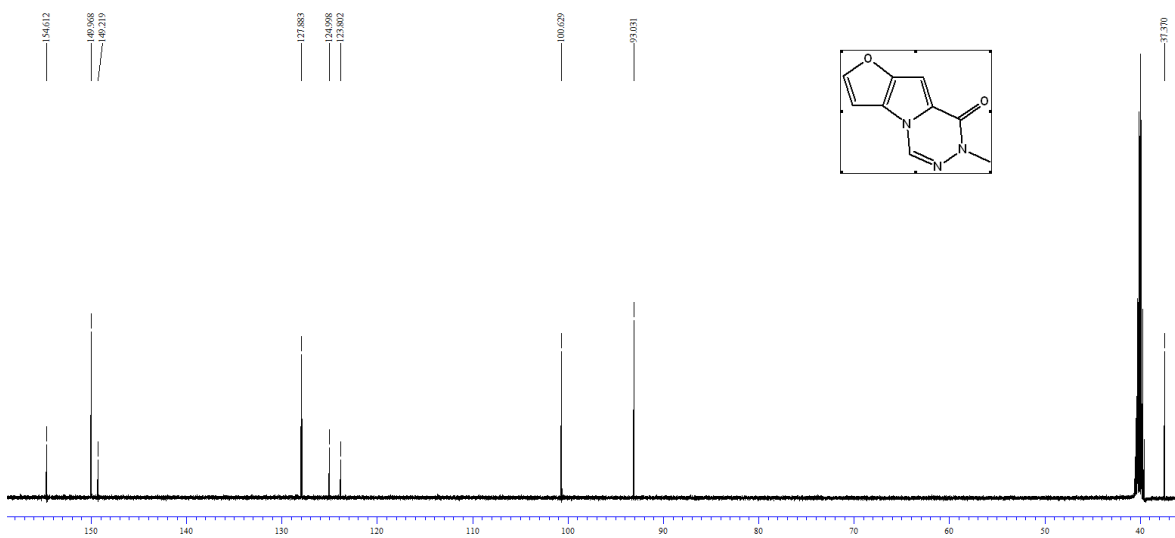


Figure S12. ^{13}C NMR spectrum (75 MHz, $\text{DMSO}-d_6$) of compound **6a**.

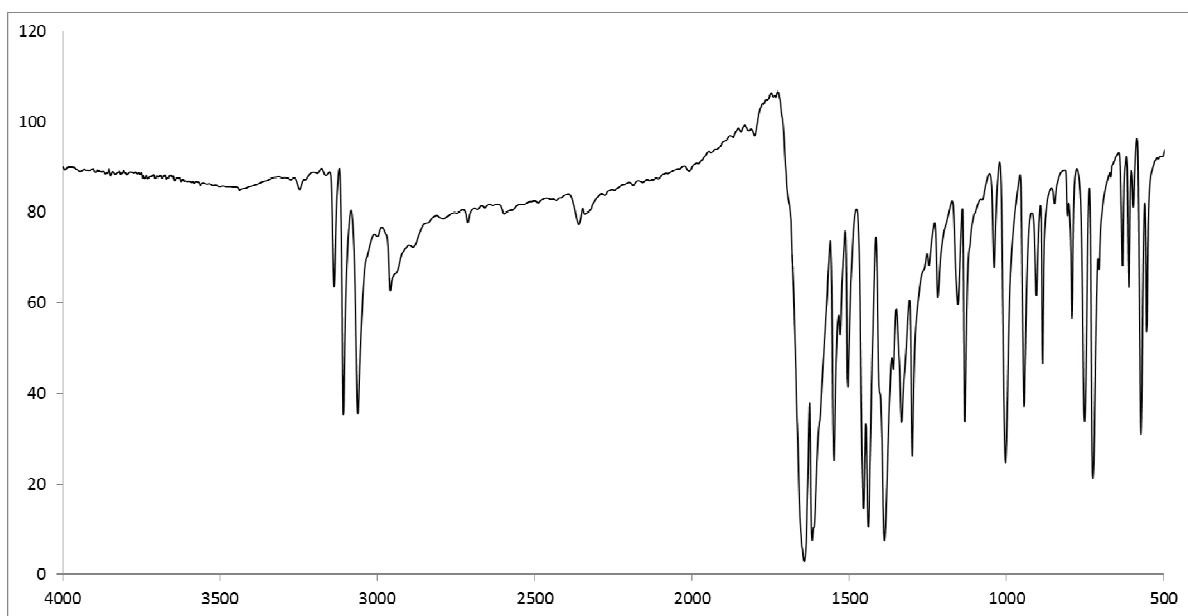


Figure S13. FTIR (KBr) spectrum of compound 6a.

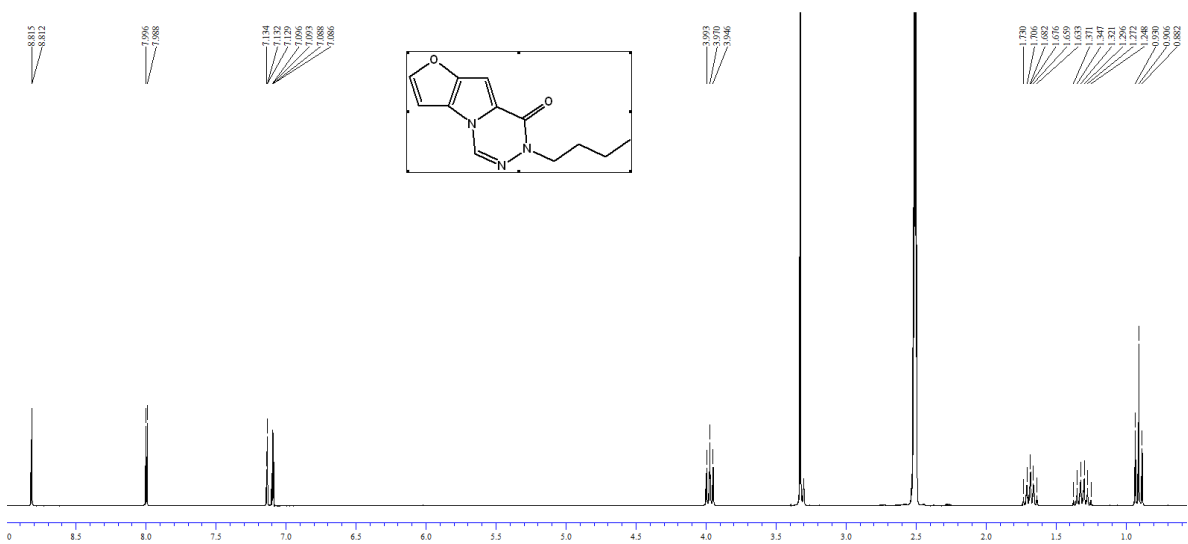


Figure S14. ^1H NMR (300 MHz, $\text{DMSO}-d_6$) of compound 6b.

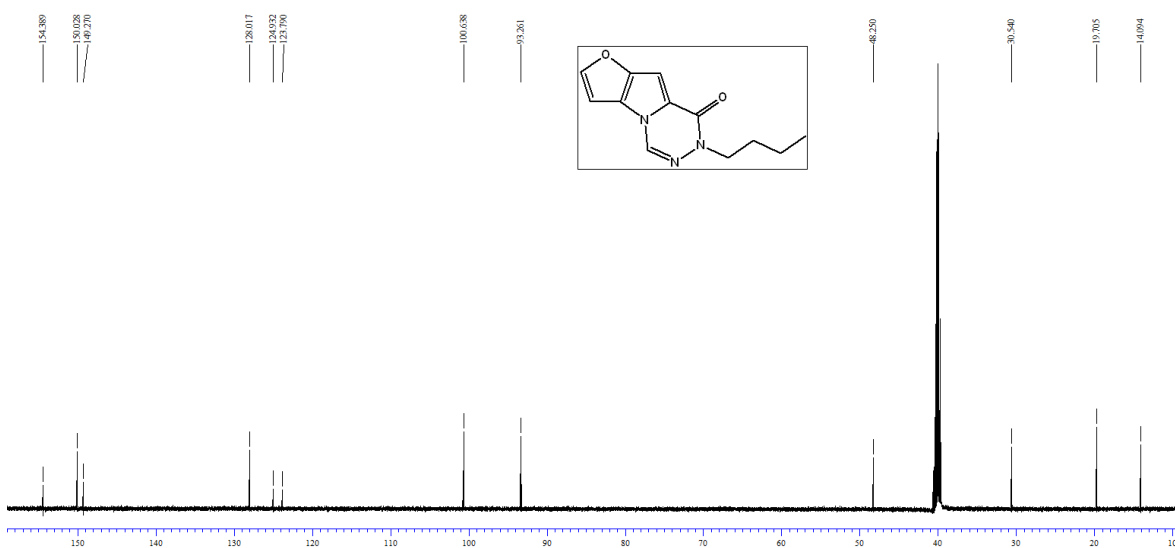


Figure S15. ¹³C NMR spectrum (75 MHz, DMSO-*d*₆) of compound **6b**.

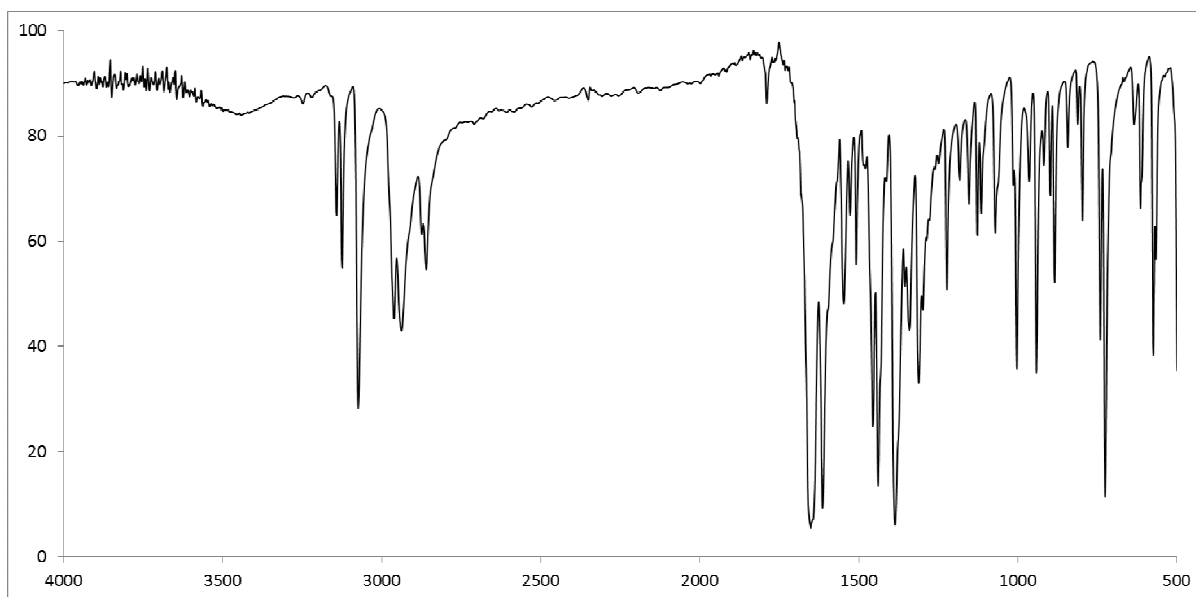


Figure S16. FTIR (KBr) spectrum of compound **6b**.

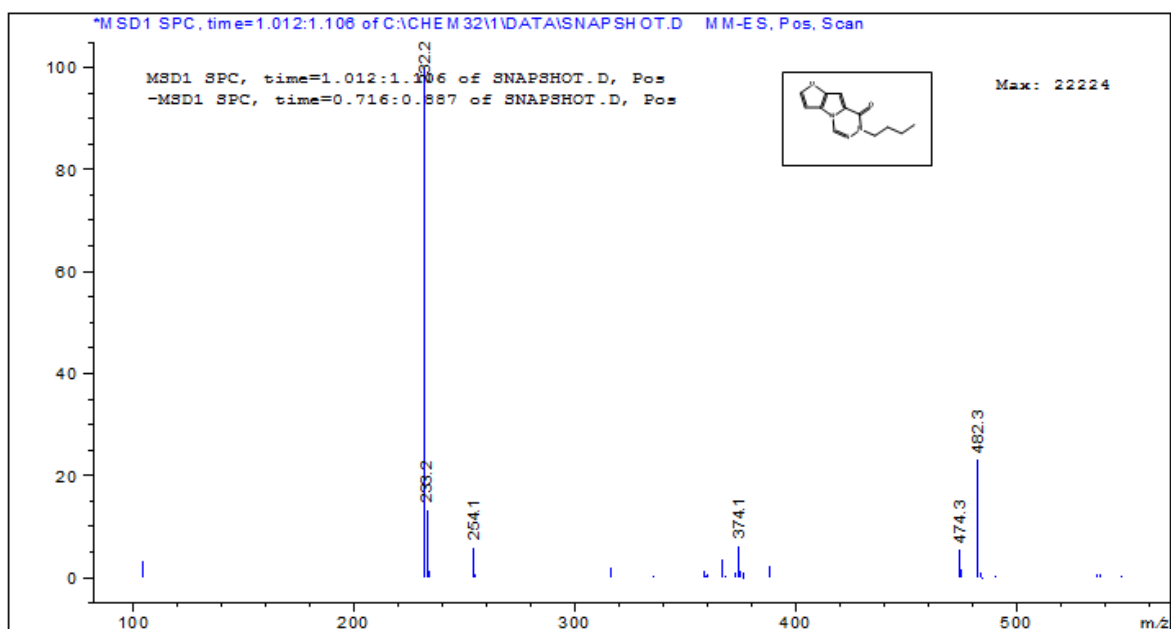


Figure S17. MS (ESI+) spectrum of compound 6b.

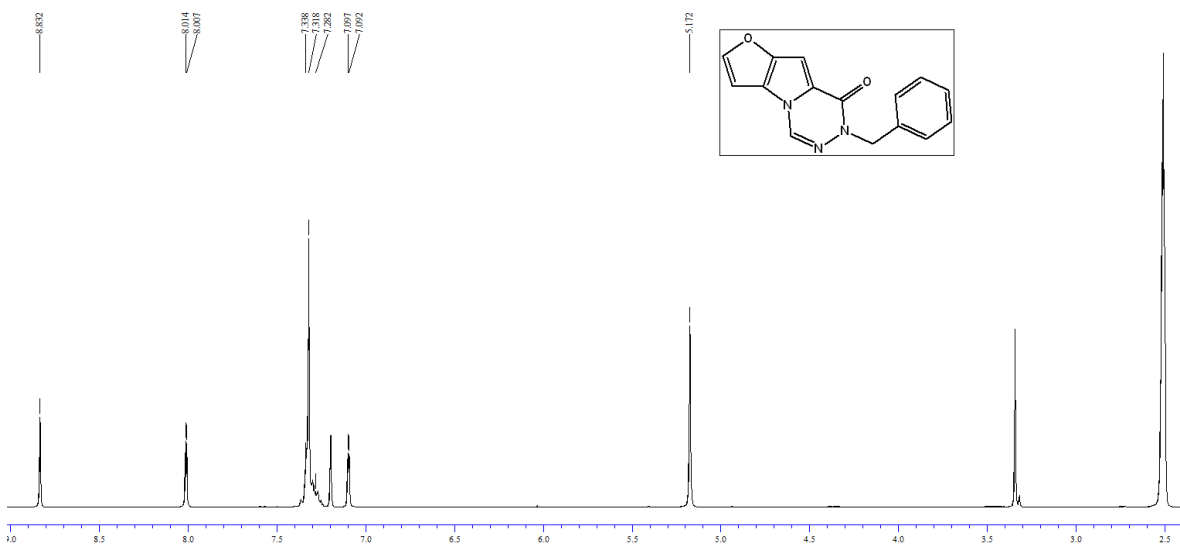


Figure S18. ¹H NMR (300 MHz, DMSO-d₆) of compound 6c.

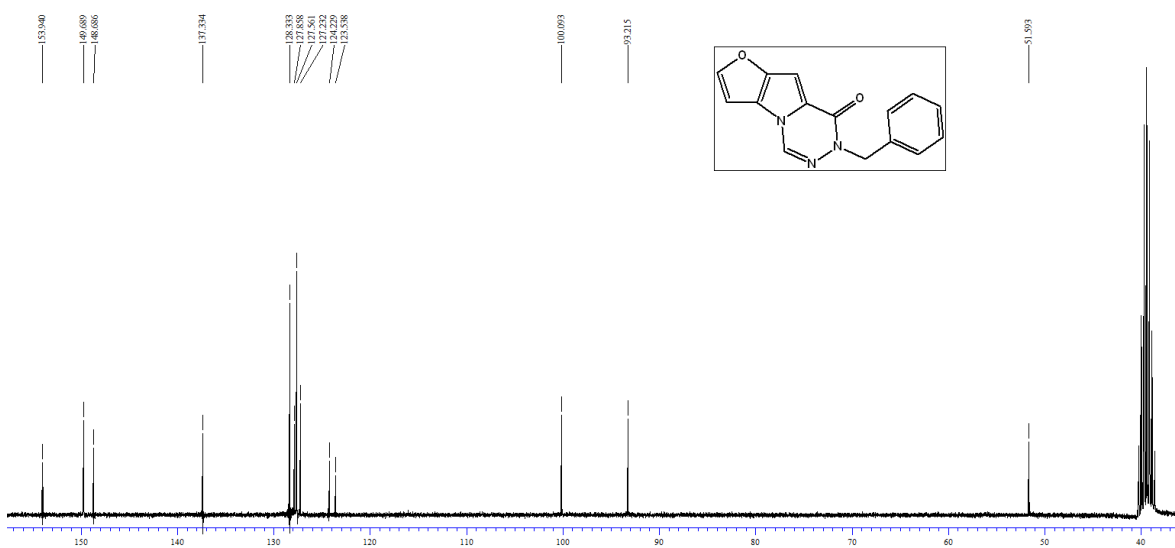


Figure S19. ¹³C NMR spectrum (75 MHz, DMSO-*d*₆) of compound **6c**.

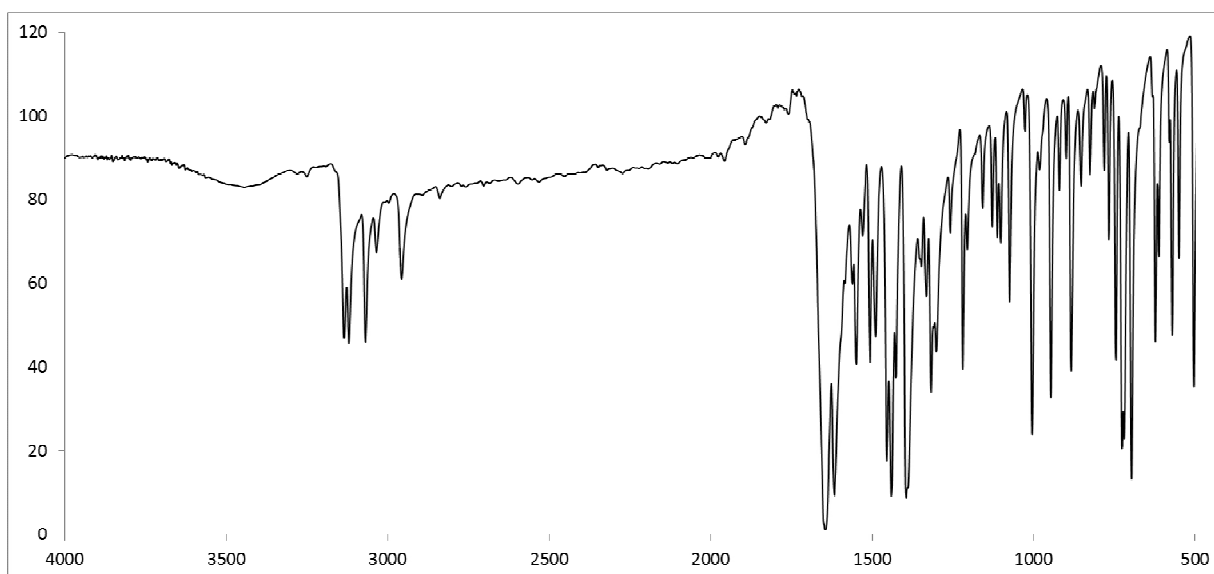


Figure S20. FTIR (KBr) spectrum of compound **6c**.

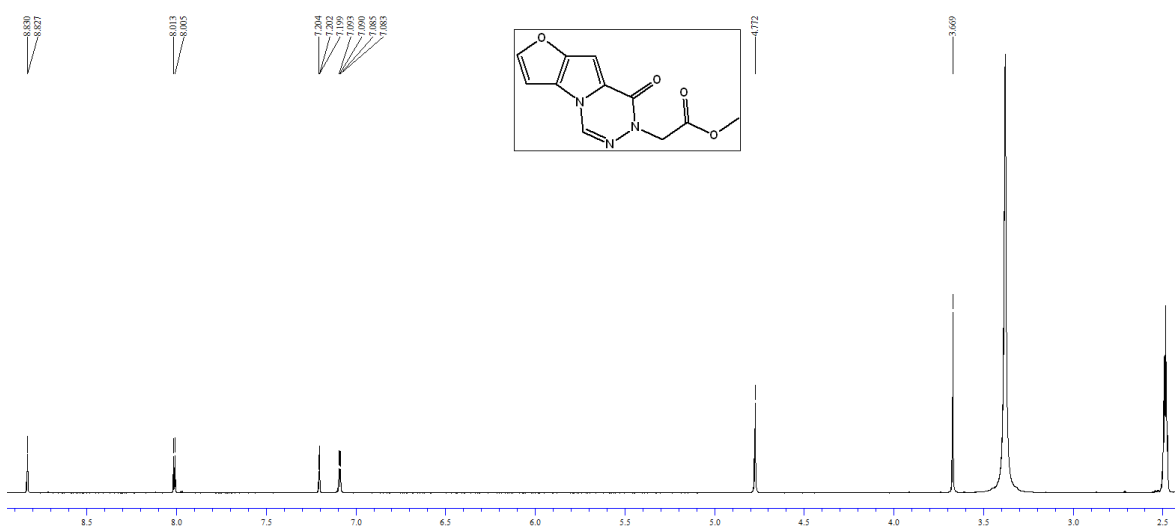


Figure S21. ^1H NMR (300 MHz, $\text{DMSO}-d_6$) of compound 6d.

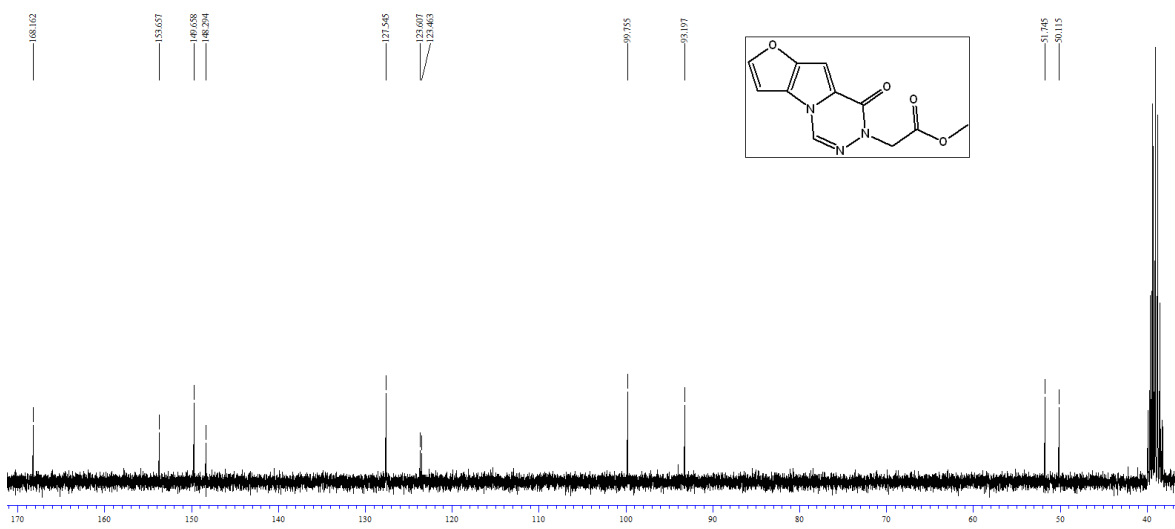


Figure S22. ^{13}C NMR spectrum (75 MHz, $\text{DMSO}-d_6$) of compound 6d.

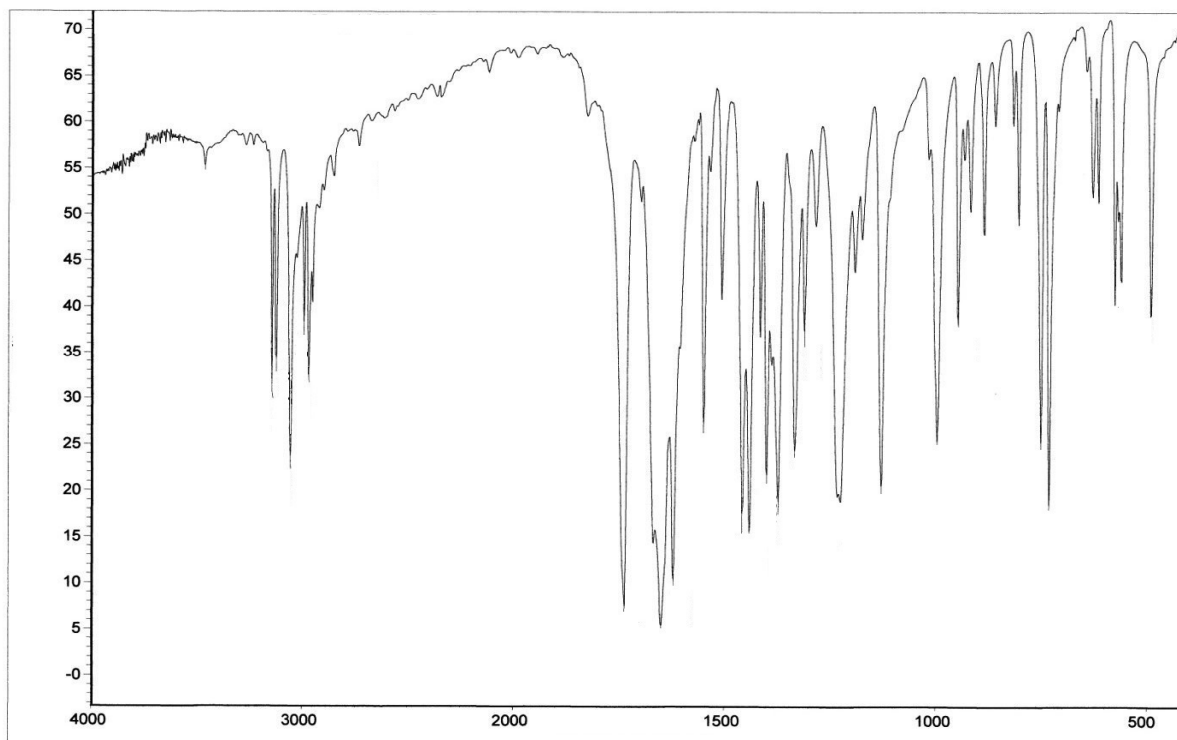


Figure S23. FTIR (KBr) spectrum of compound **6d**.

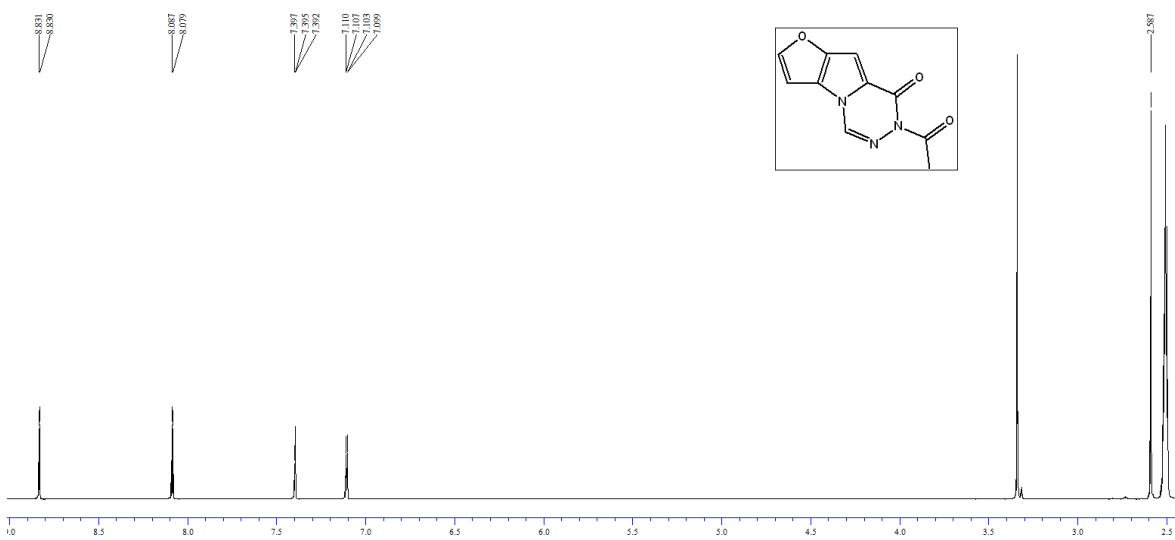


Figure S24. ^1H NMR (300 MHz, $\text{DMSO}-d_6$) of compound **6e**.

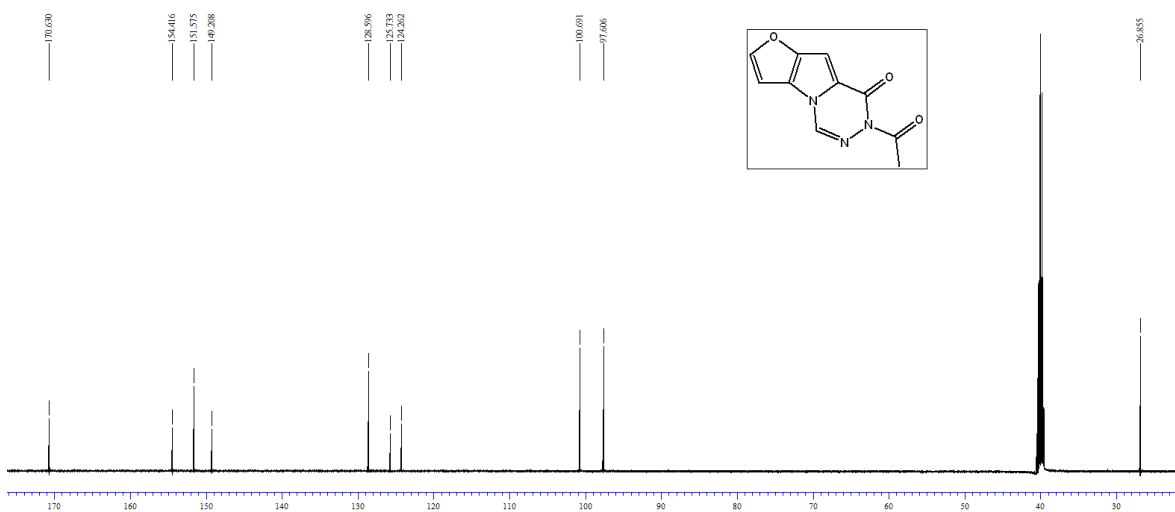


Figure S25. ^{13}C NMR spectrum (75 MHz, $\text{DMSO-}d_6$) of compound 6e.

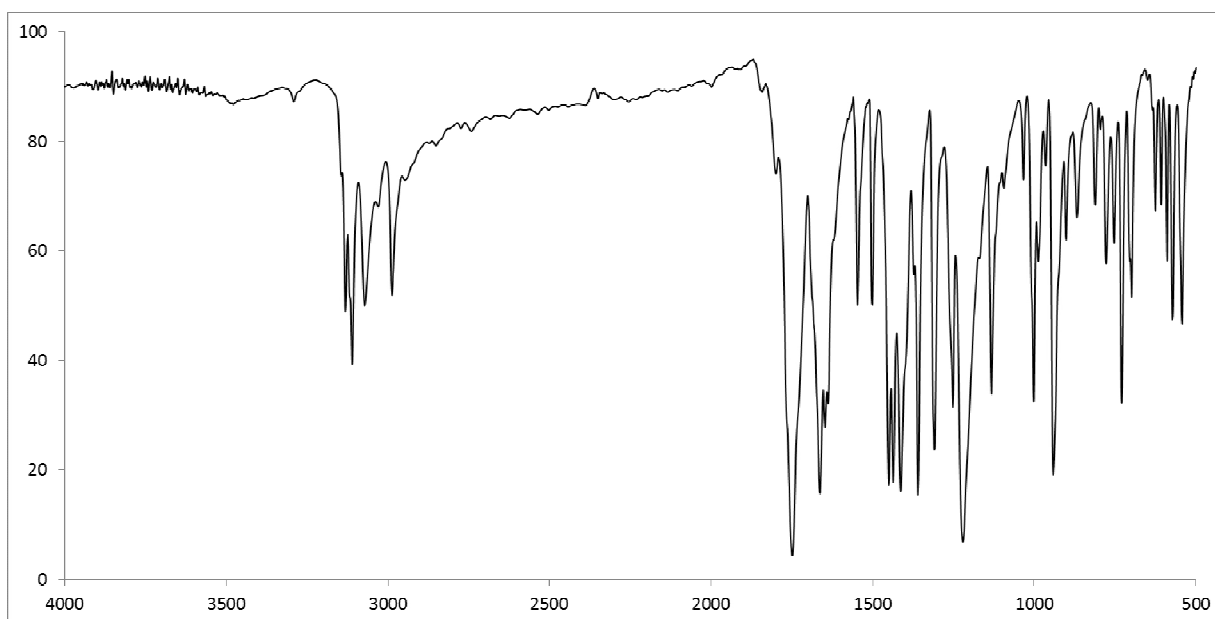


Figure S26. FTIR (KBr) spectrum of compound 6e.

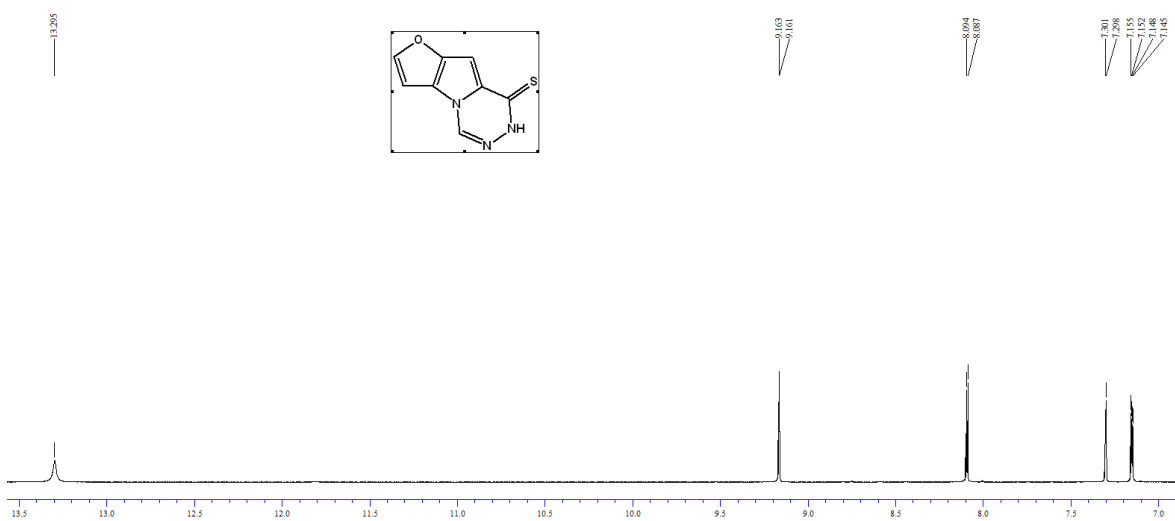


Figure S27. ¹H NMR (300 MHz, DMSO-*d*₆) of compound 7.

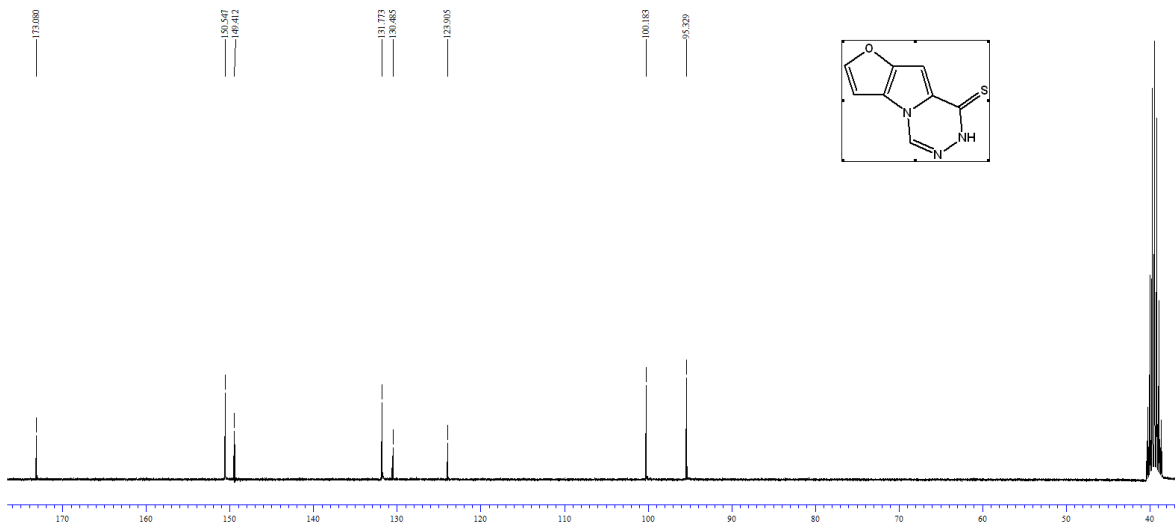


Figure S28. ¹³C NMR spectrum (75 MHz, DMSO-*d*₆) of compound 7.

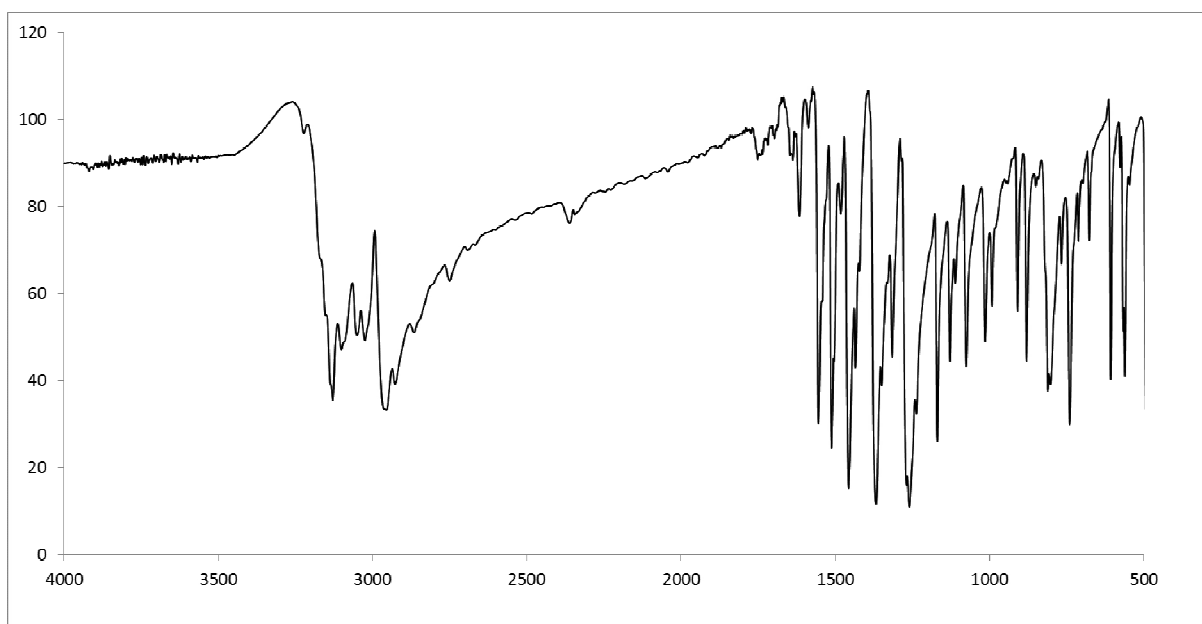


Figure S29. FTIR (KBr) spectrum of compound 7.

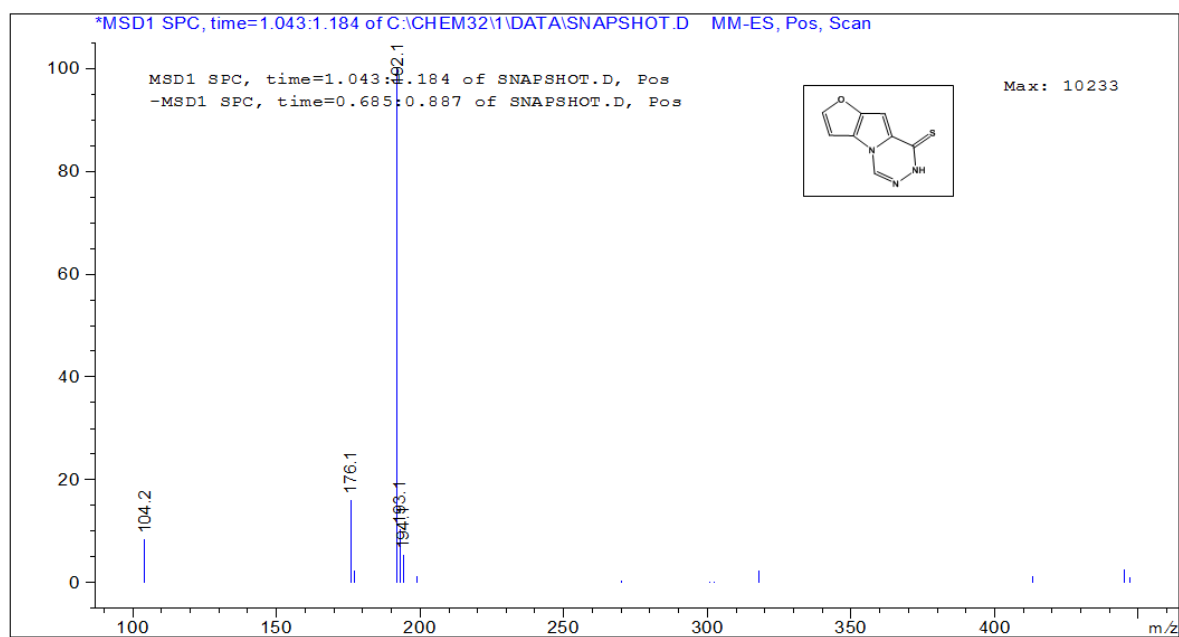


Figure S30. MS (ESI+) spectrum of compound 7.

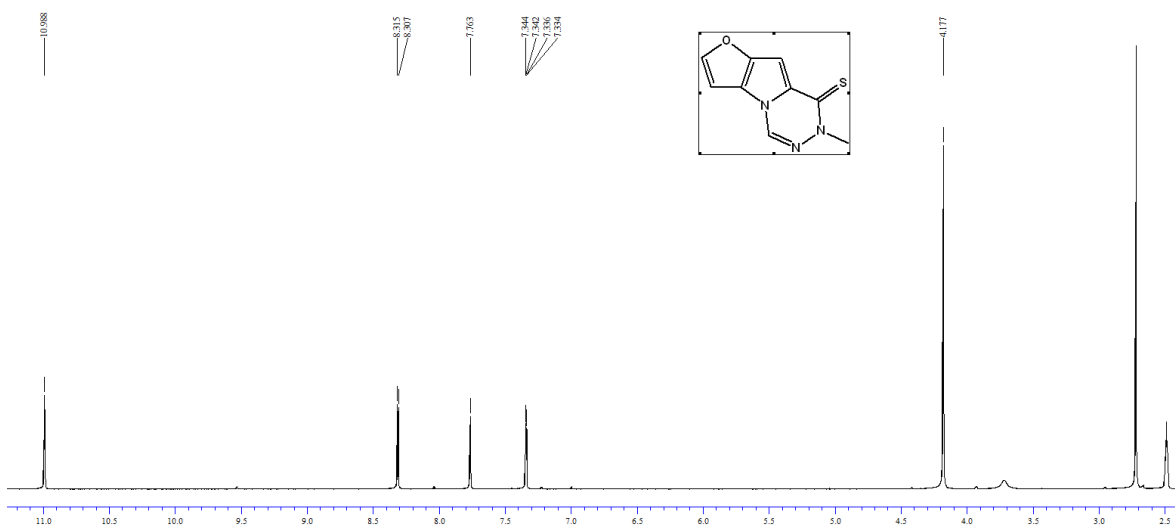


Figure S31. ¹H NMR (300 MHz, DMSO-*d*₆) of compound **8a**.

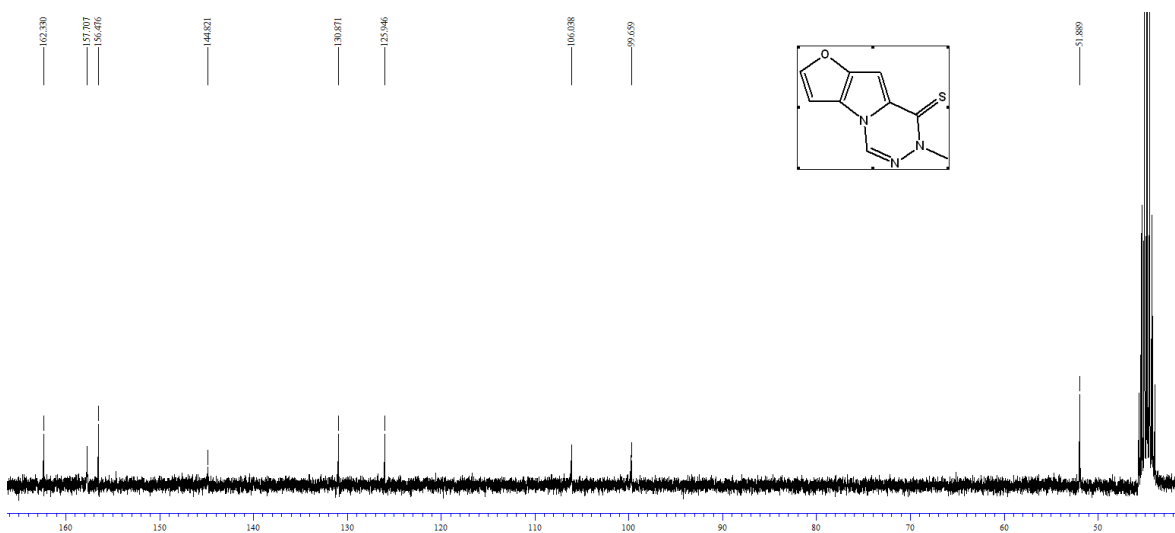


Figure S32. ¹³C NMR spectrum (75 MHz, DMSO-*d*₆) of compound **8a**.

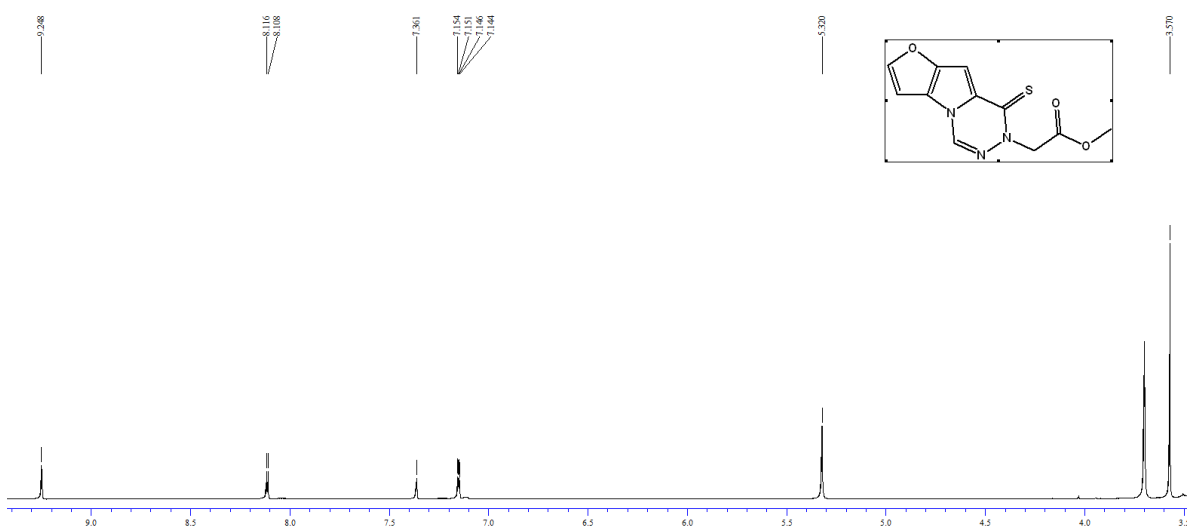


Figure S33. ^1H NMR (300 MHz, $\text{DMSO}-d_6$) of compound 8b.

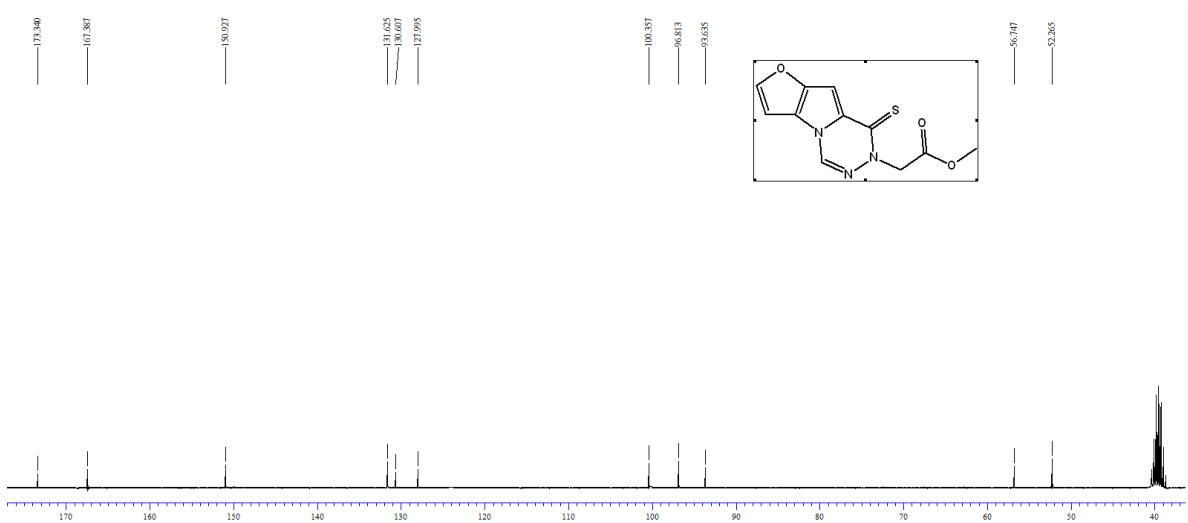


Figure S34. ^{13}C NMR (75 MHz, $\text{DMSO}-d_6$) of compound 8b.



Figure S35. ^1H NMR (300 MHz, $\text{DMSO}-d_6$) of compound 9.

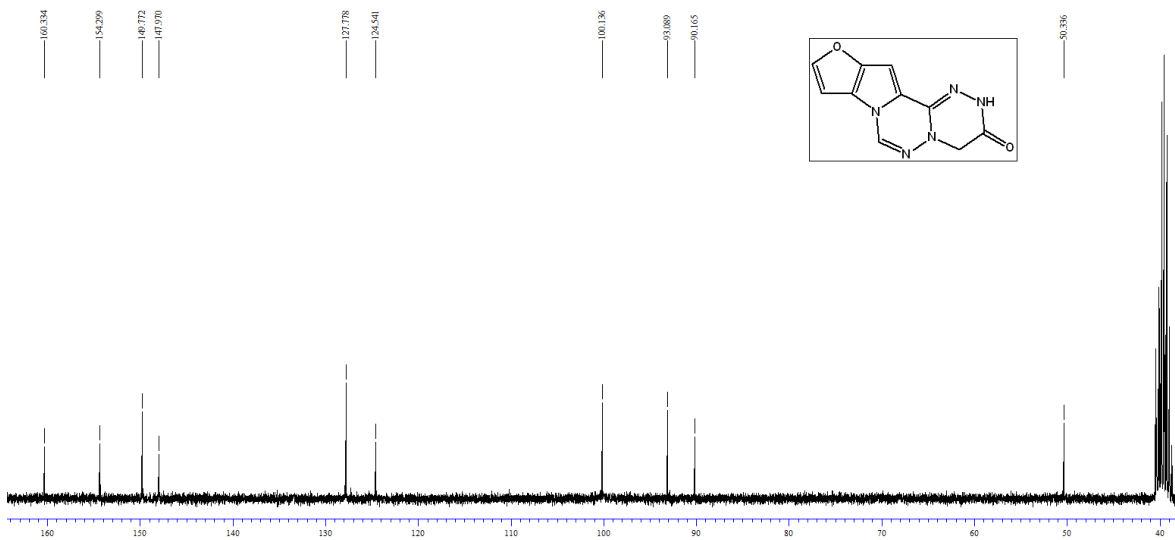


Figure S36. ^{13}C NMR (75 MHz, $\text{DMSO}-d_6$) of compound 9.