Supporting information for

Water mediated multicomponent reactions for the synthesis of novel spirooxindole derivatives and their antifungal activity

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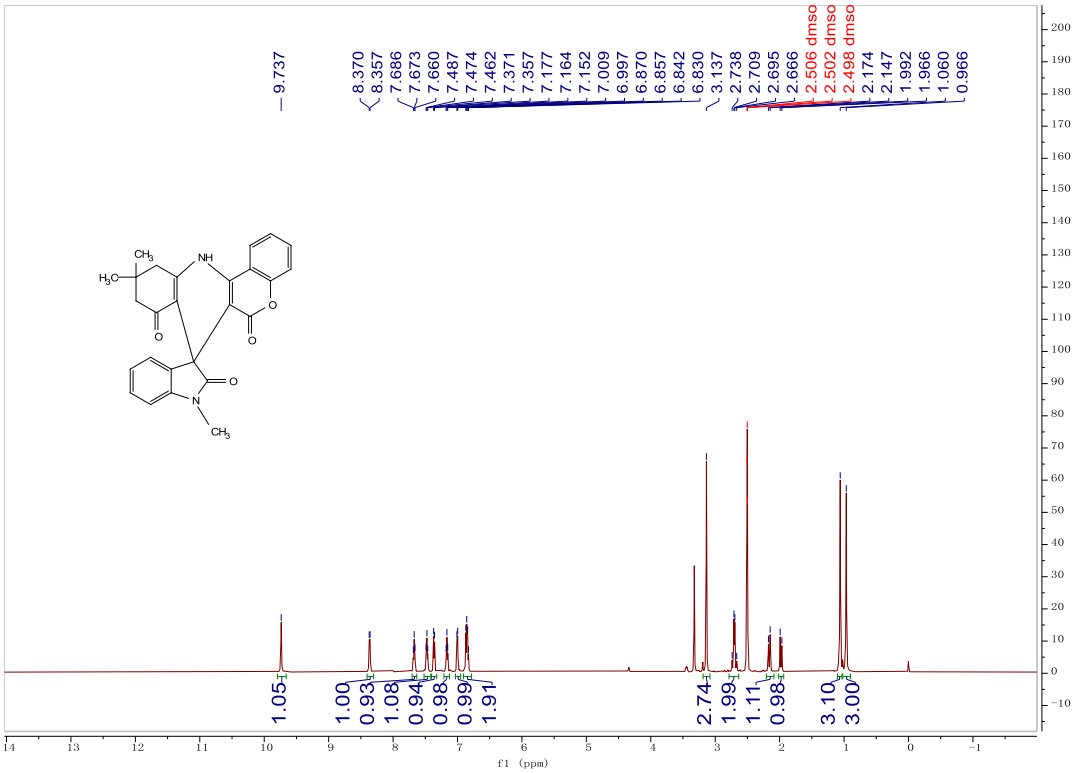

Figure S1. The ^{1}H NMR (400 MHz, DMSO-d_6) of **4a**.

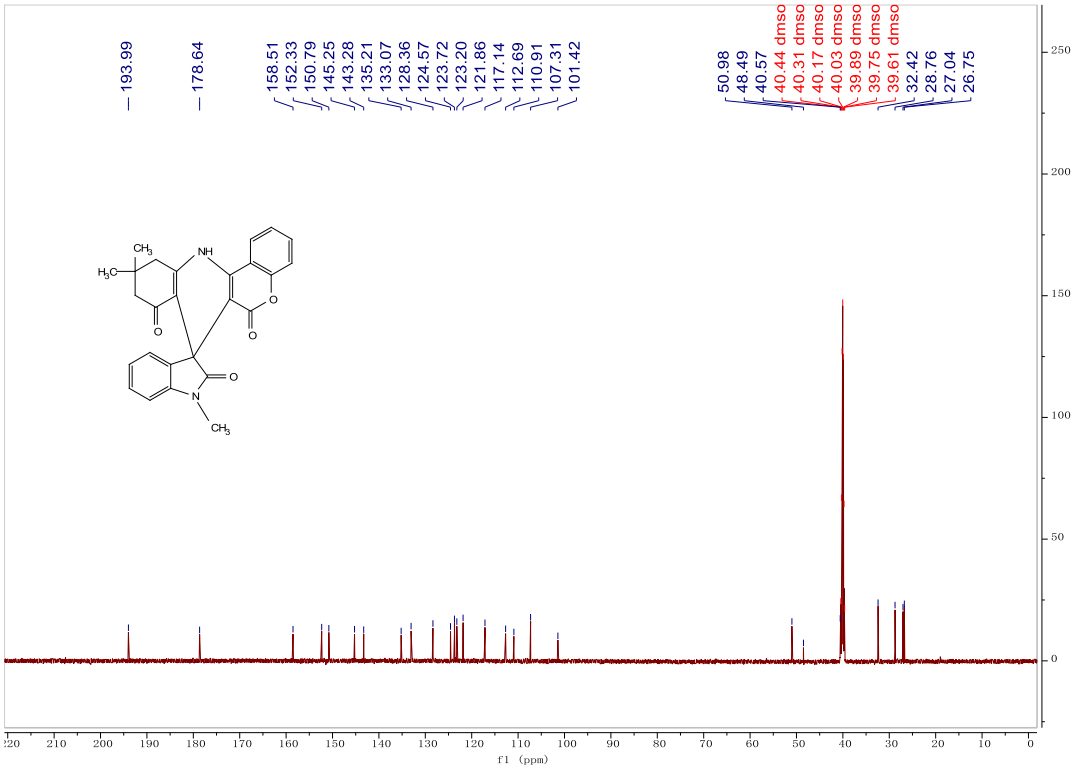

Figure S2. The ^{13}C NMR (100 MHz, DMSO-d_6) of **4a**.

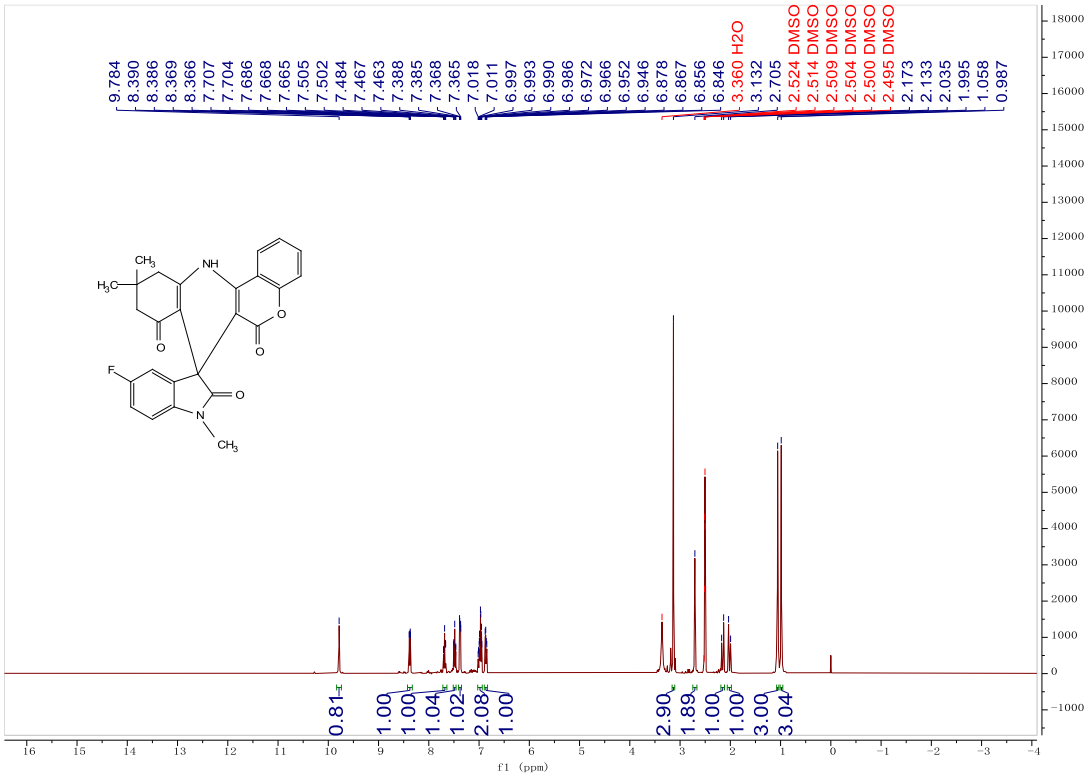

Figure S3. The ^{1}H NMR (400 MHz, DMSO-d_6) of **4b**.

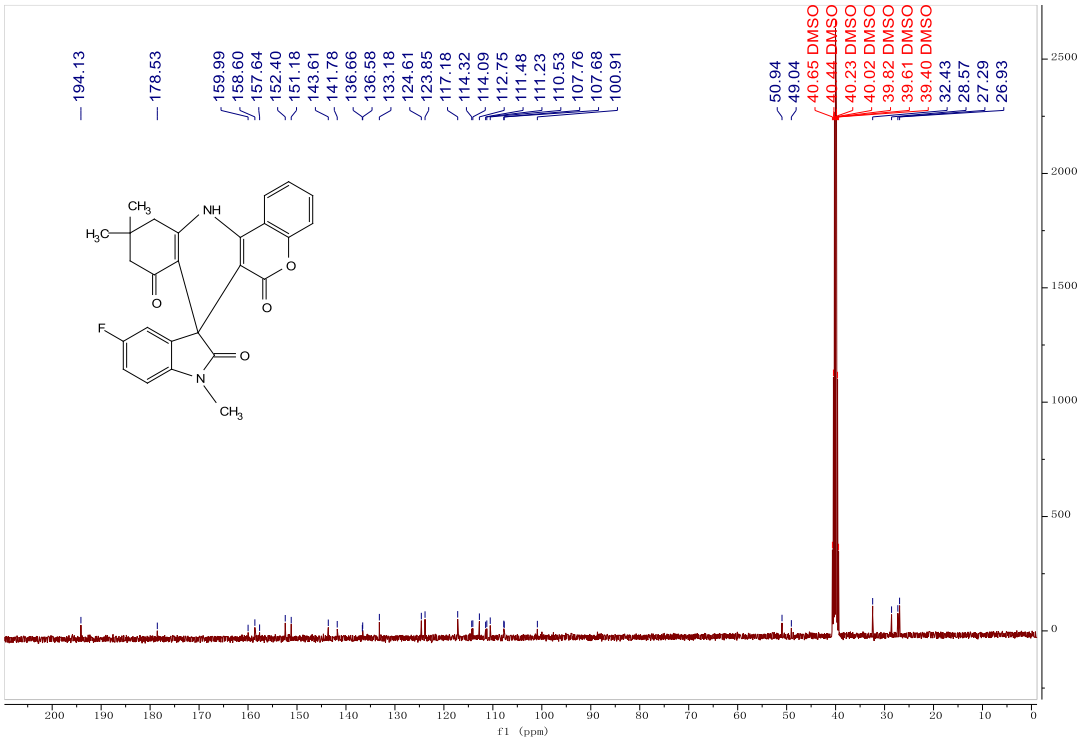

Figure S4. The ^{13}C NMR (100 MHz, DMSO-d_6) of **4b**.

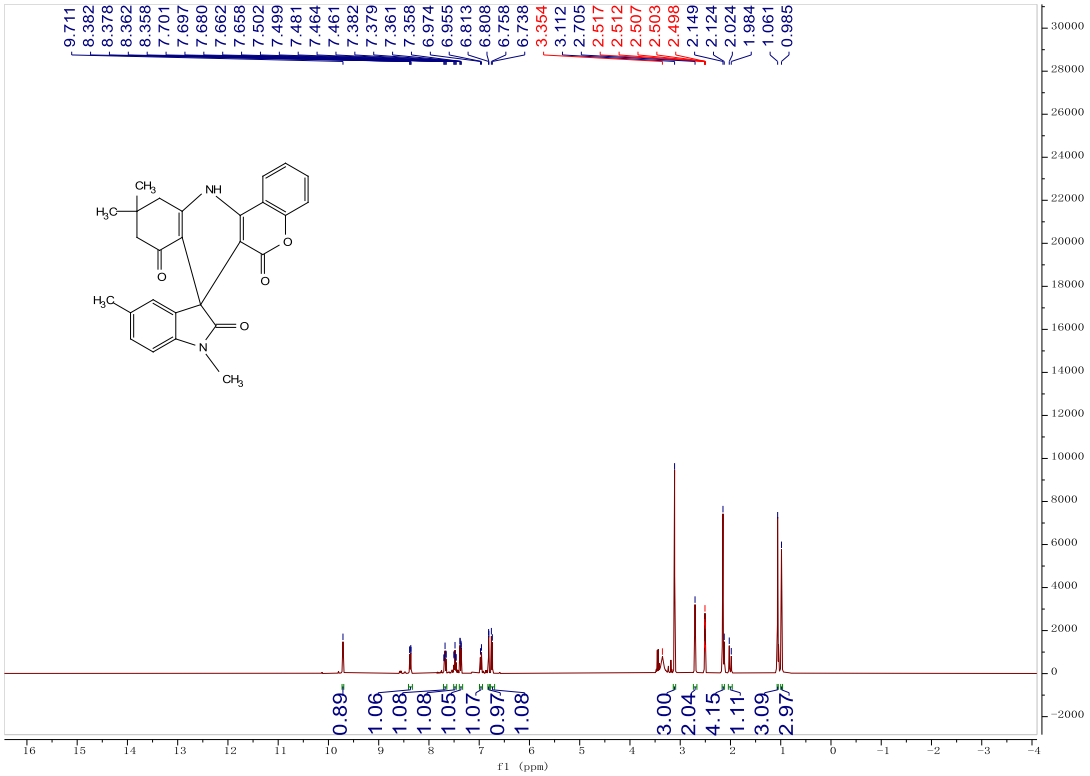

Figure S5. The ^{1}H NMR (400 MHz, DMSO-d_6) of **4c**.

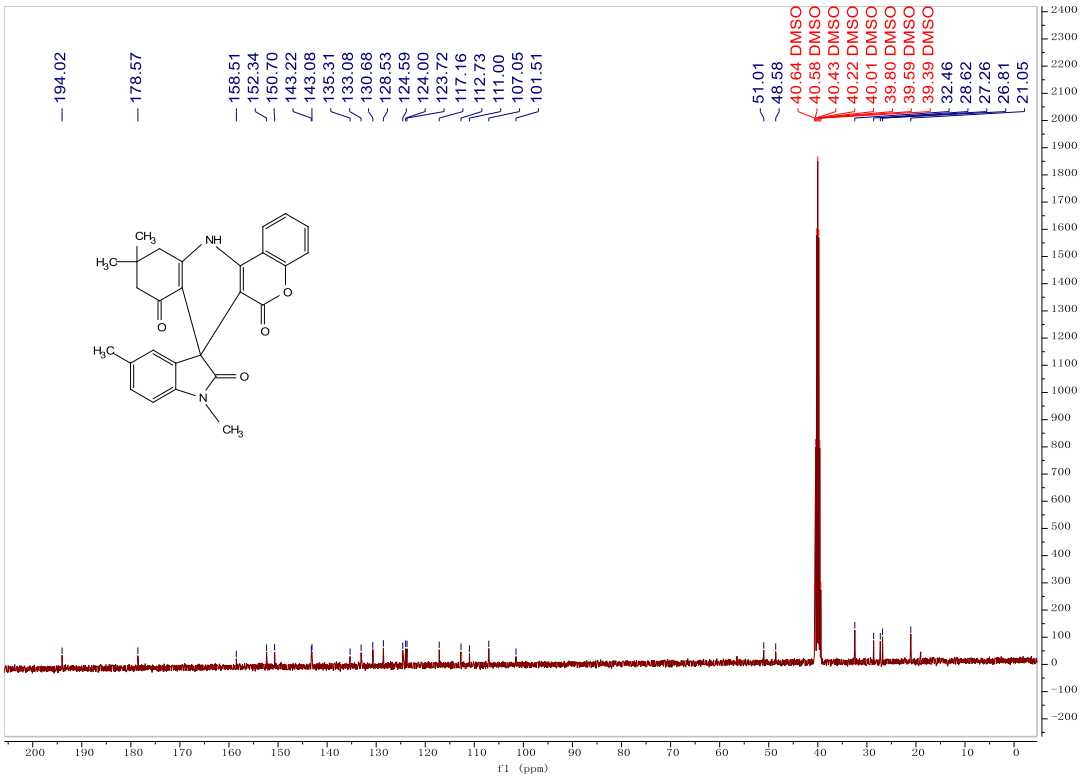

Figure S6. The ^{13}C NMR (100 MHz, DMSO-d_6) of **4c**.

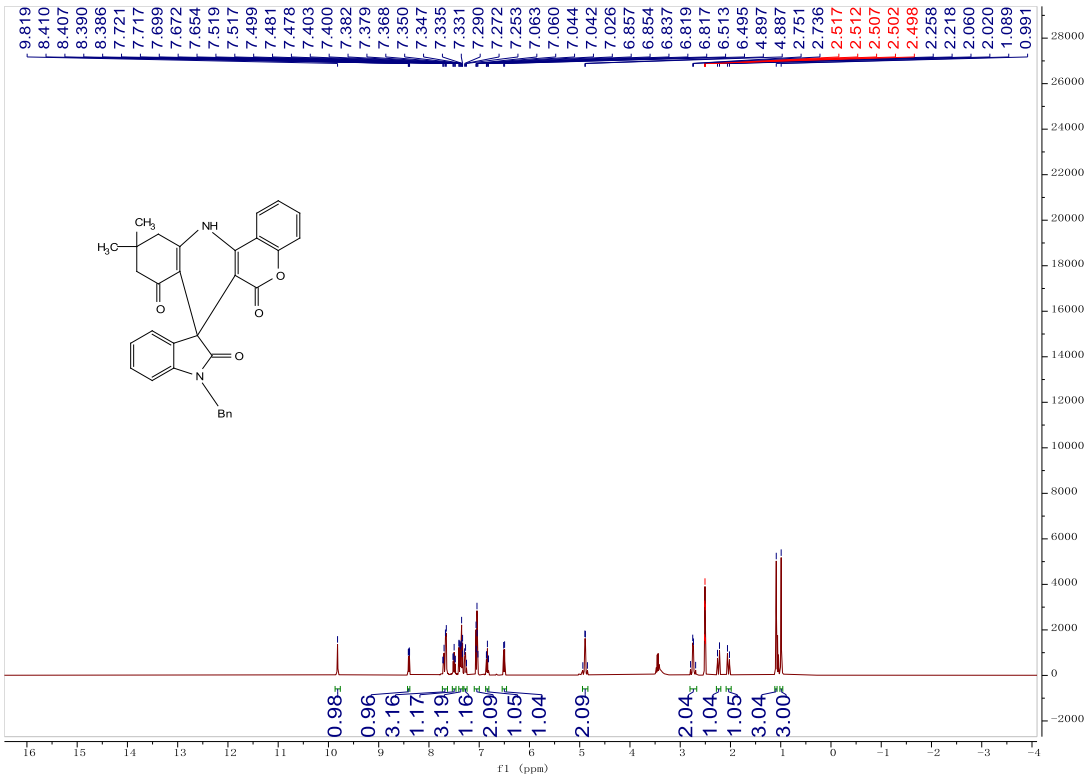

Figure S7. The ^{1}H NMR (400 MHz, DMSO-d_6) of **4d**.

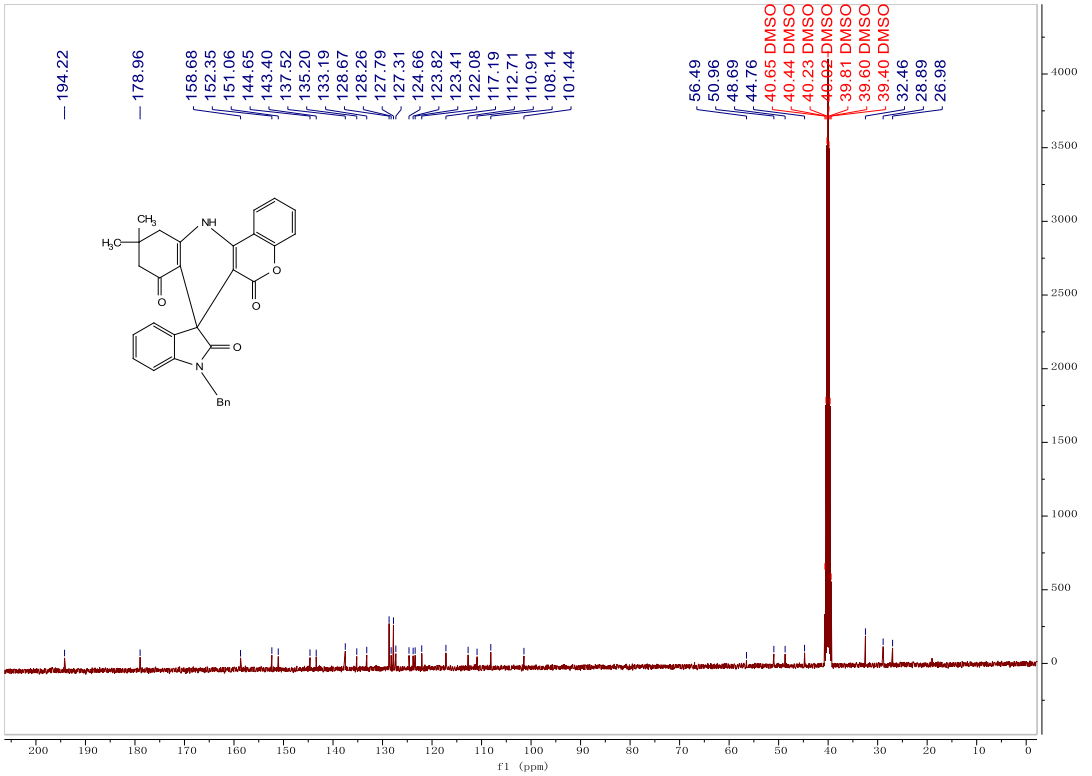

Figure S8. The ^{13}C NMR (100 MHz, DMSO-d_6) of **4d**.

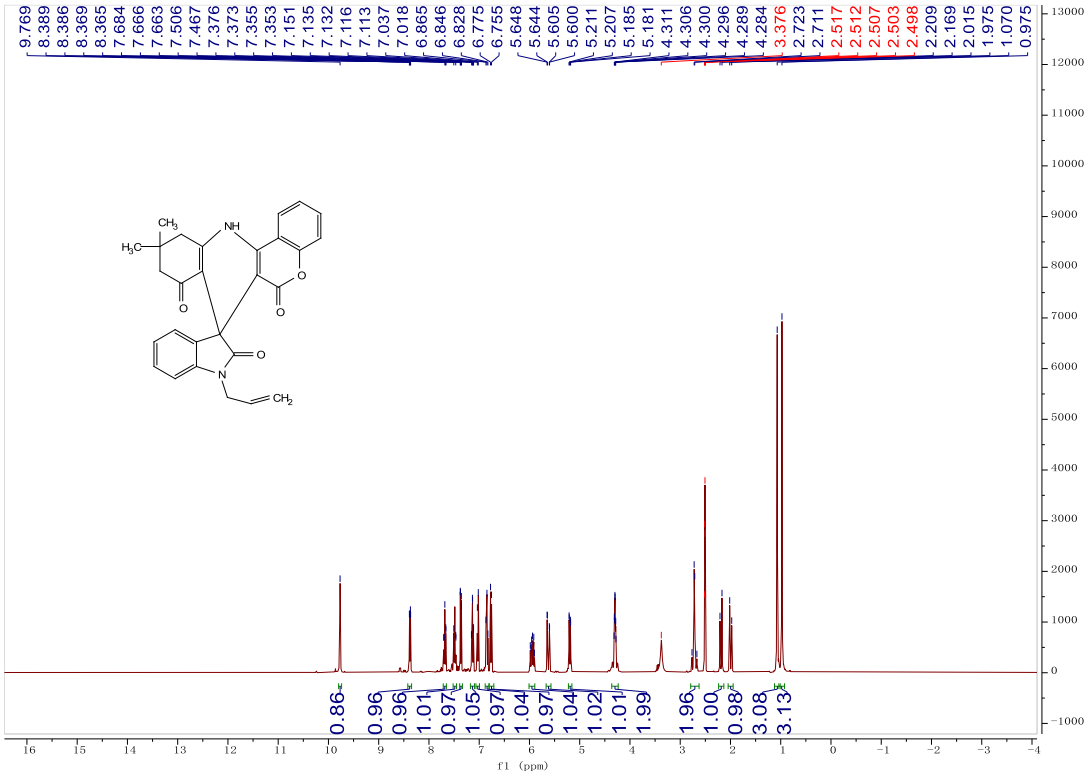

Figure S9. The ^{1}H NMR (400 MHz, DMSO-d_6) of **4e**.

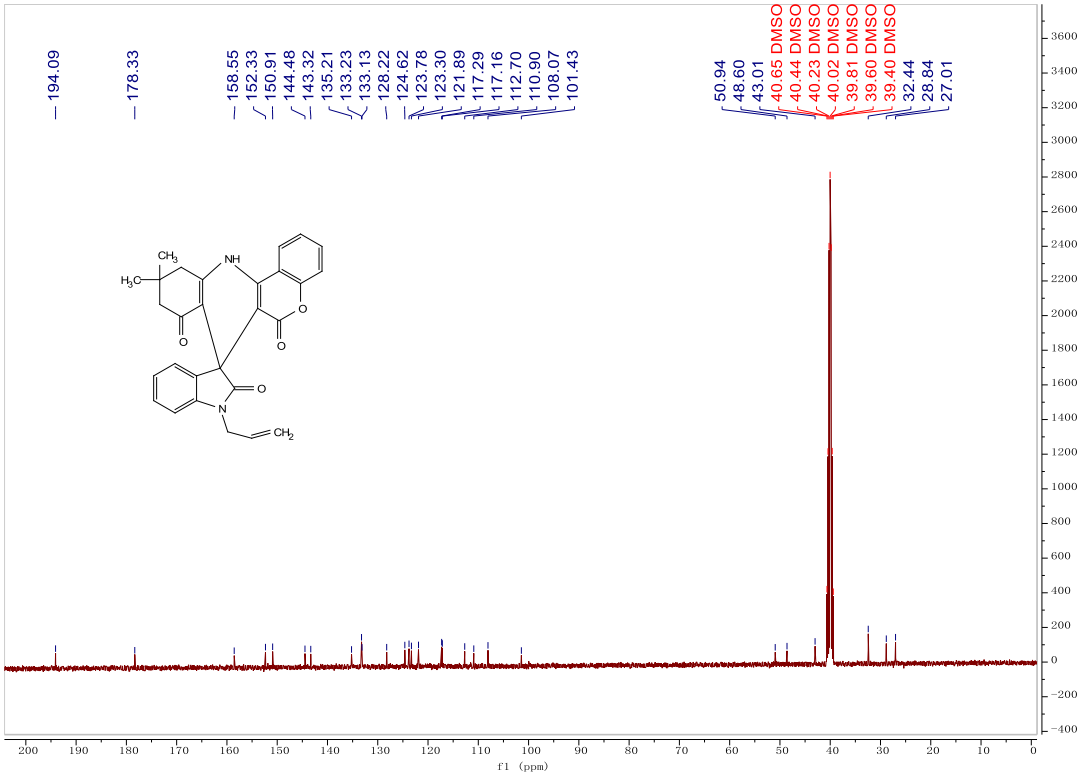

Figure S10. The ^{13}C NMR (100 MHz, DMSO-d_6) of **4e**.

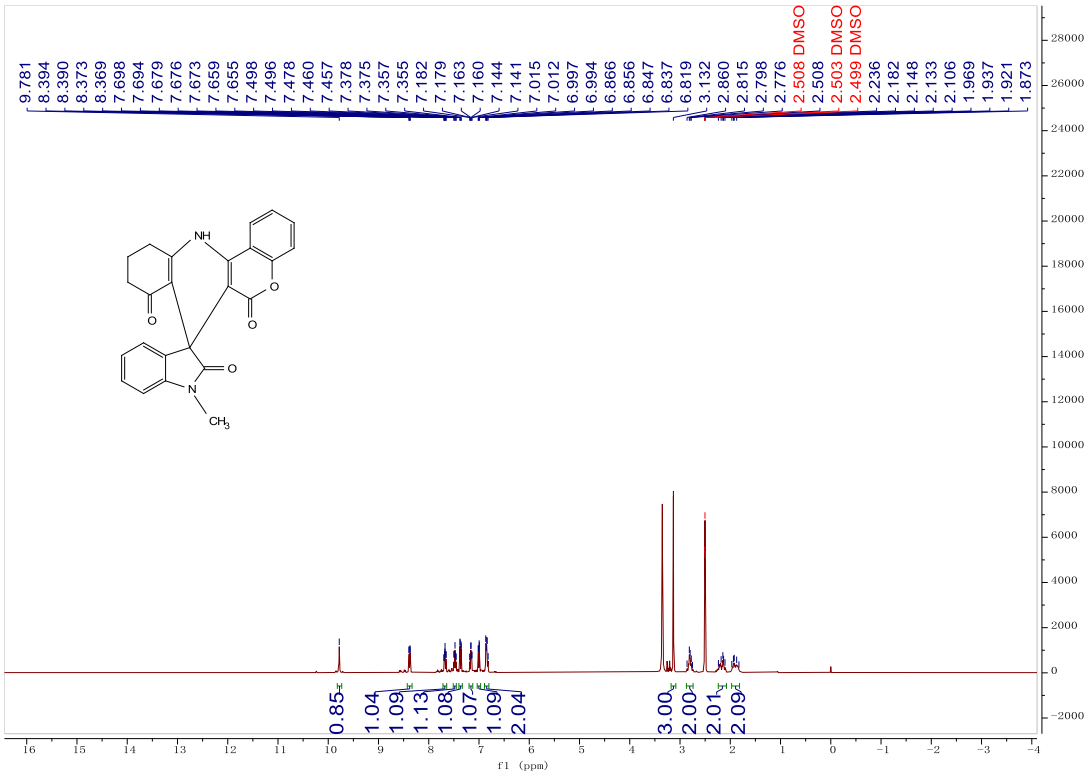

Figure S11. The ^{1}H NMR (400 MHz, DMSO-d_6) of **5a**.

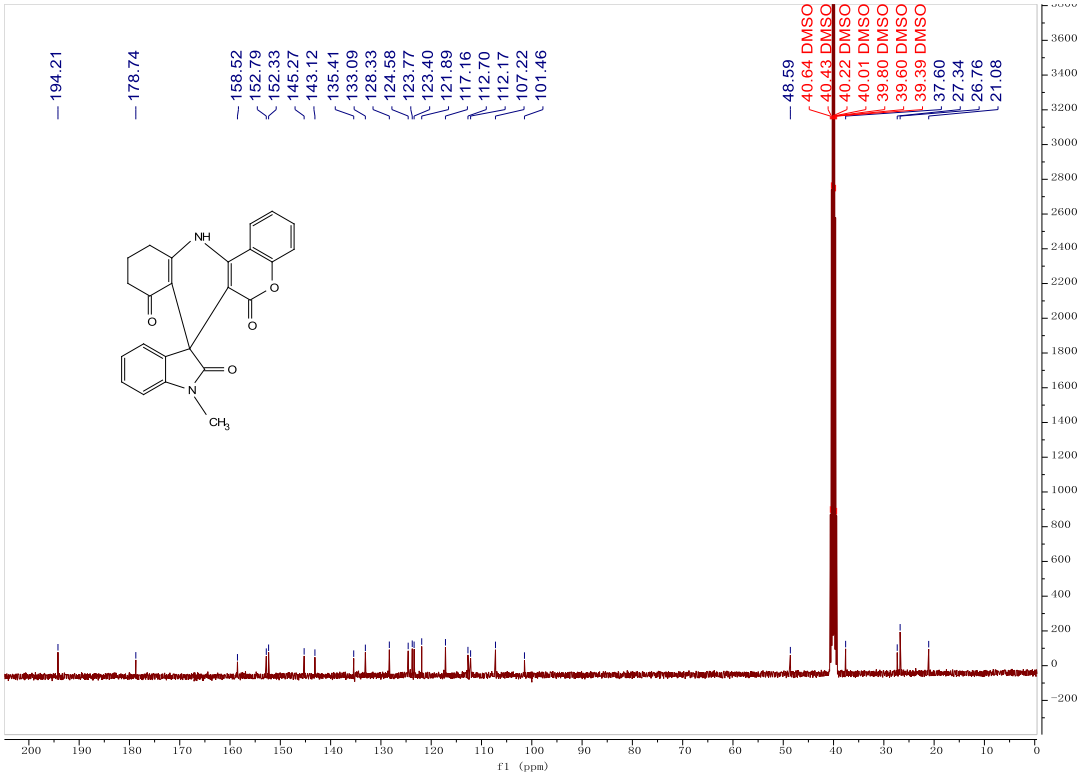

Figure S12. The ^{13}C NMR (100 MHz, DMSO-d_6) of **5a**.

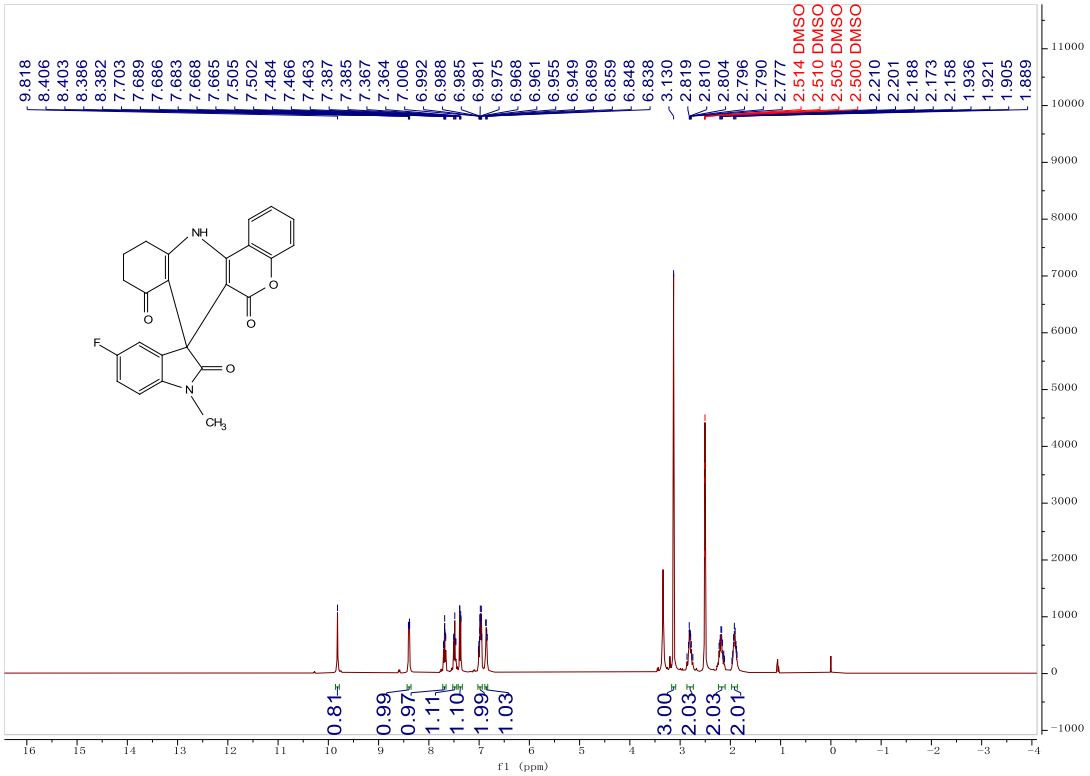

Figure S13. The ^{1}H NMR (400 MHz, DMSO-d_6) of **5b**.

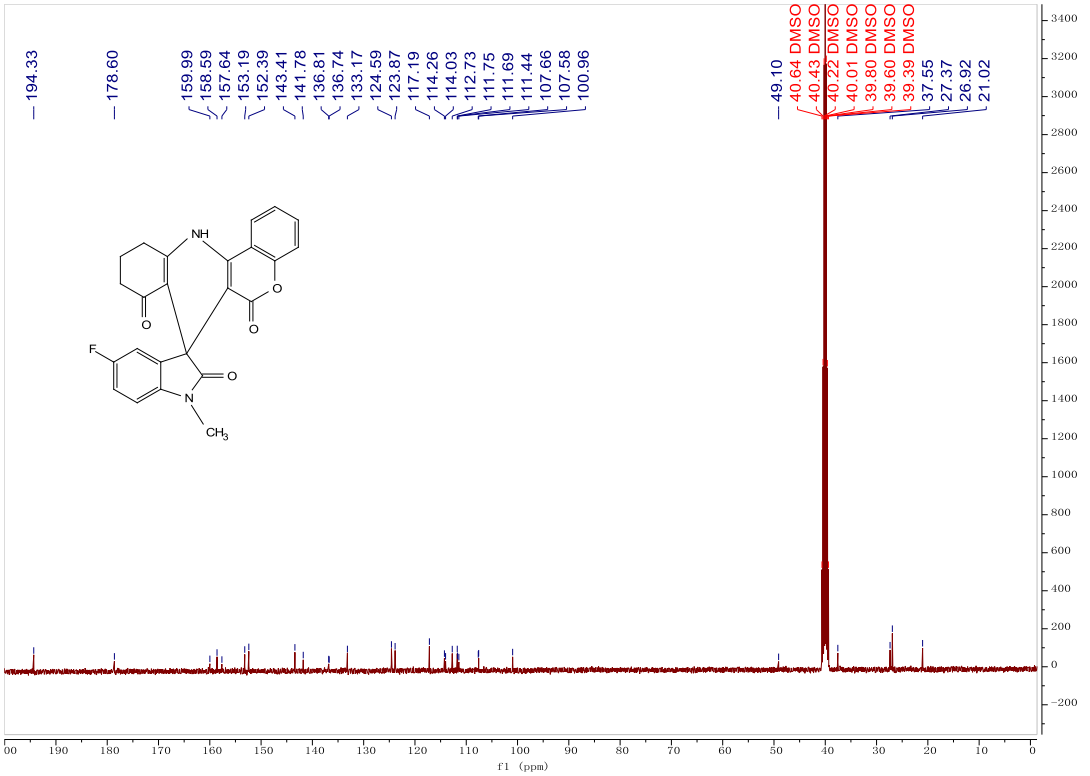

Figure S14. The ^{13}C NMR (100 MHz, DMSO-d_6) of **5b**.

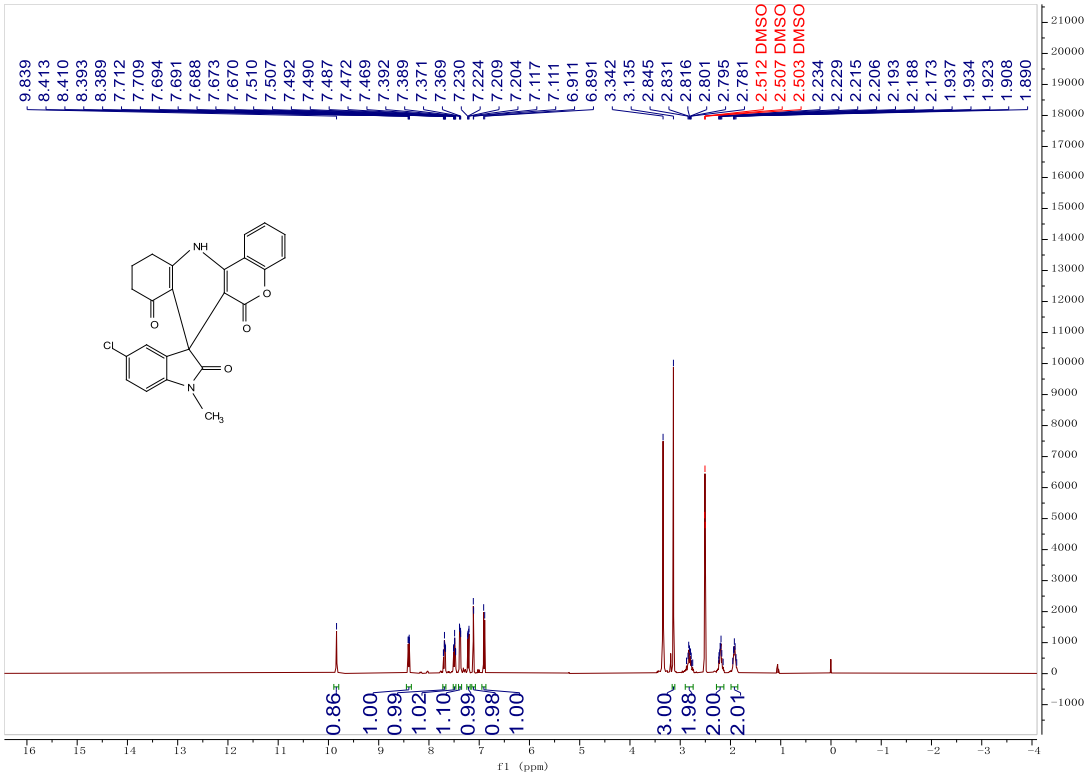

Figure S15. The ^{1}H NMR (400 MHz, DMSO-d_6) of **5c**.

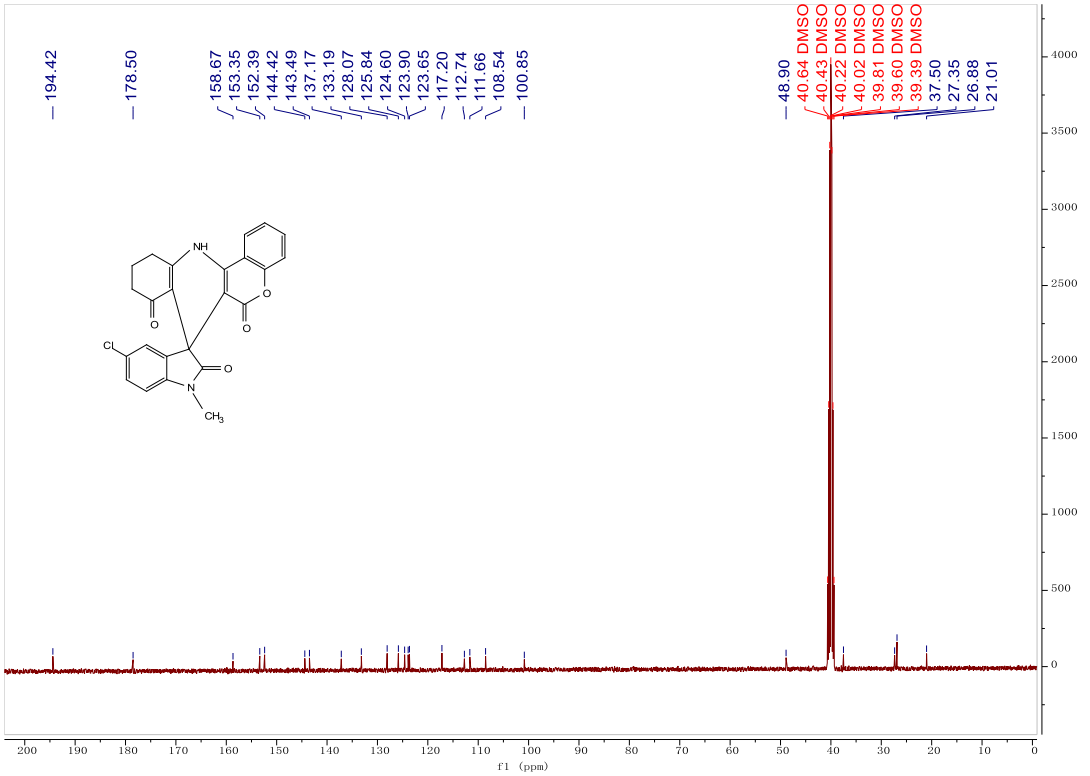

Figure S16. The ^{13}C NMR (100 MHz, DMSO-d_6) of **5c**.

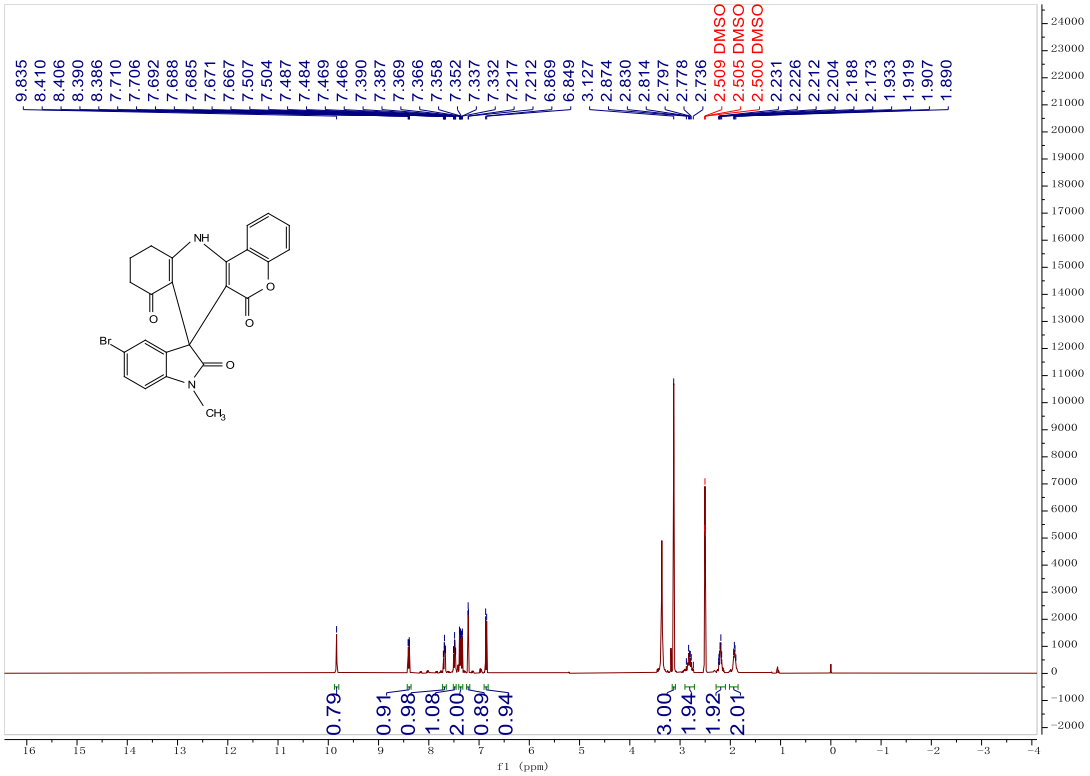

Figure S17. The ^{1}H NMR (400 MHz, DMSO-d_6) of **5d**.

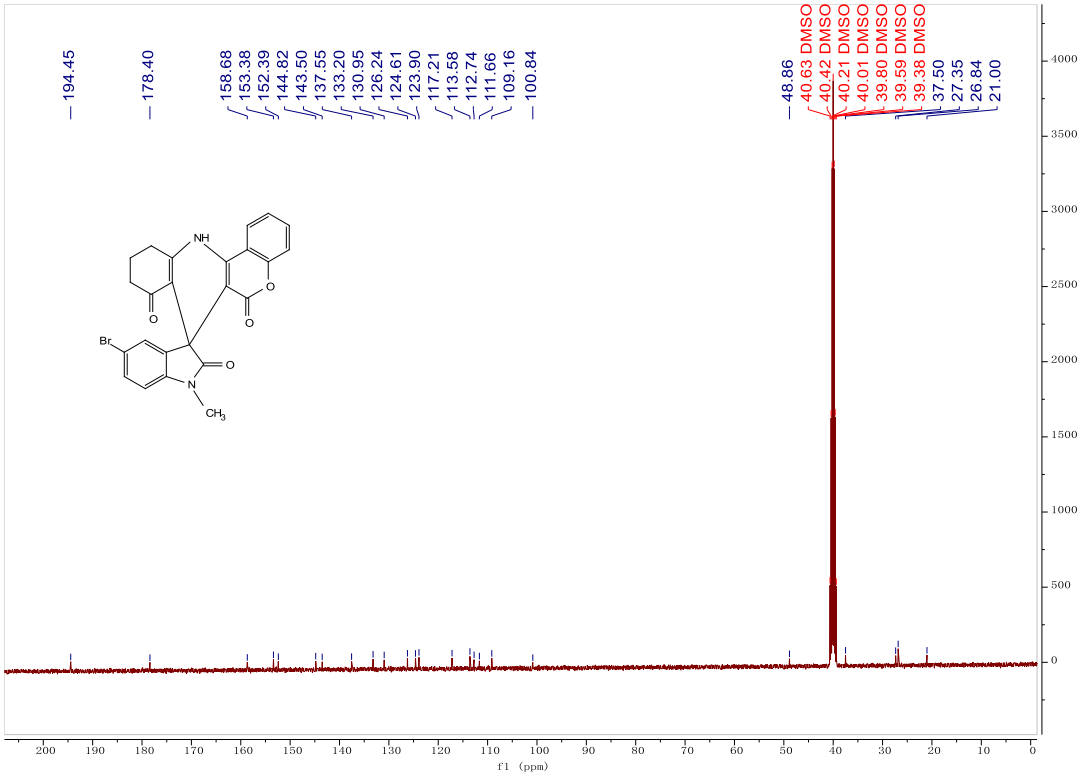

Figure S18. The ^{13}C NMR (100 MHz, DMSO-d_6) of **5d**.

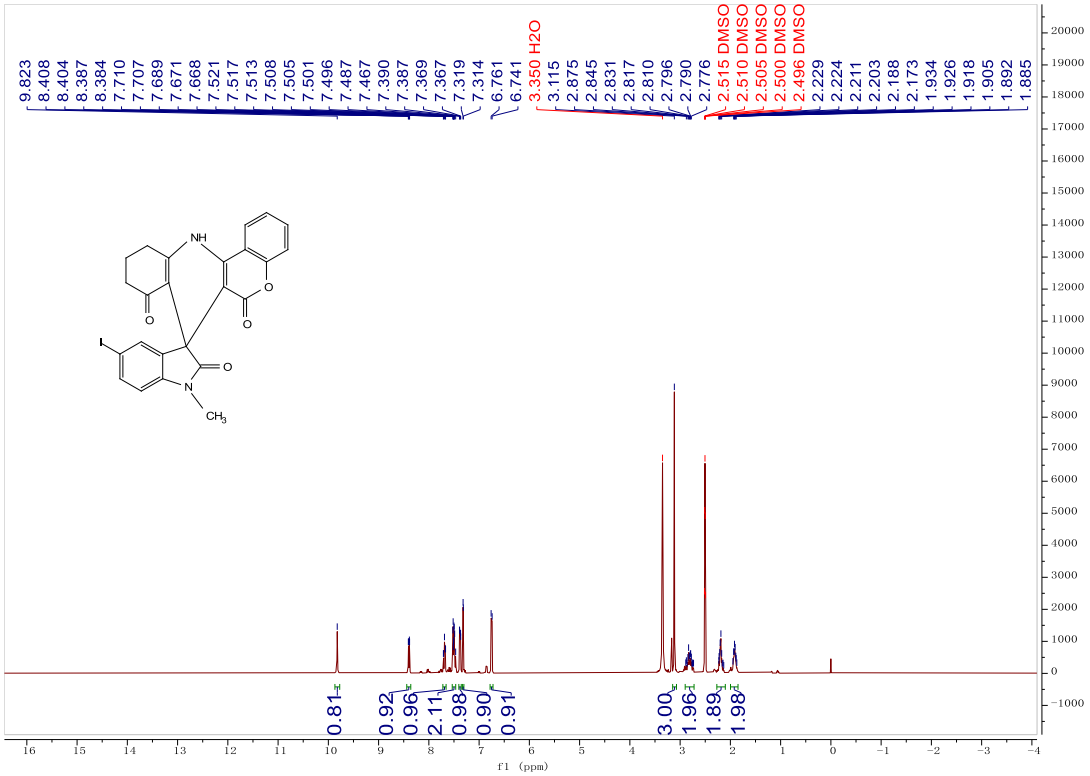

Figure S19. The ^{1}H NMR (400 MHz, DMSO-d_6) of **5e**.

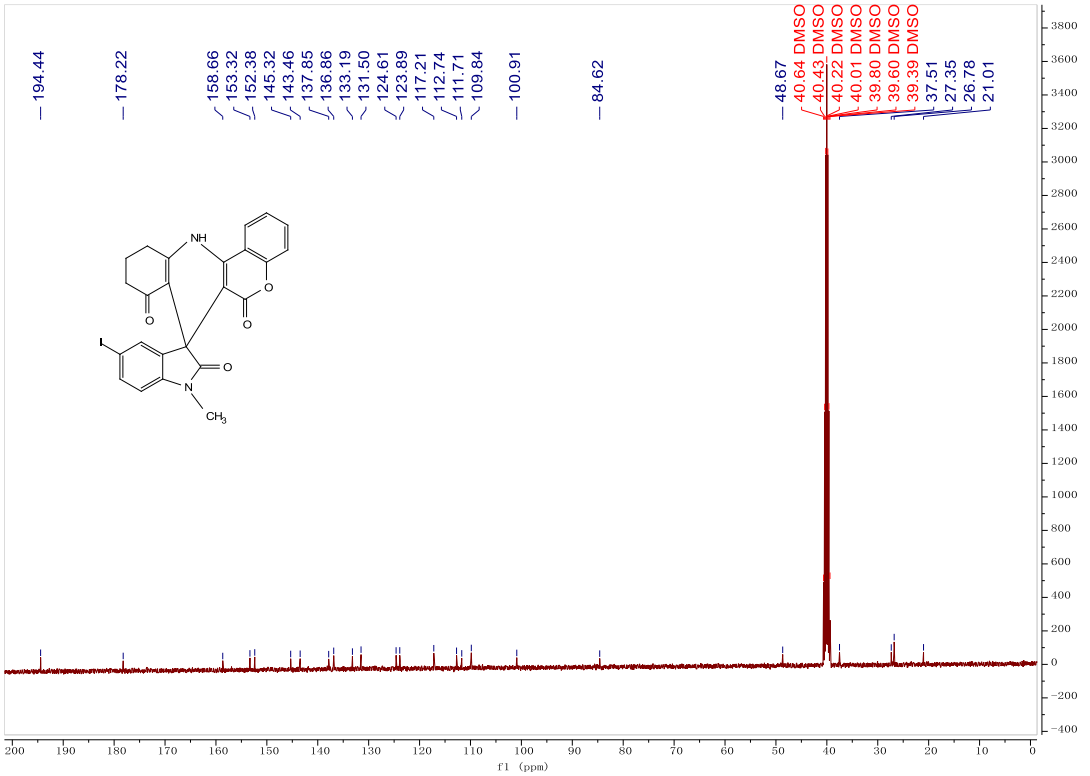

Figure S20. The ^{13}C NMR (100 MHz, DMSO-d_6) of **5e**.

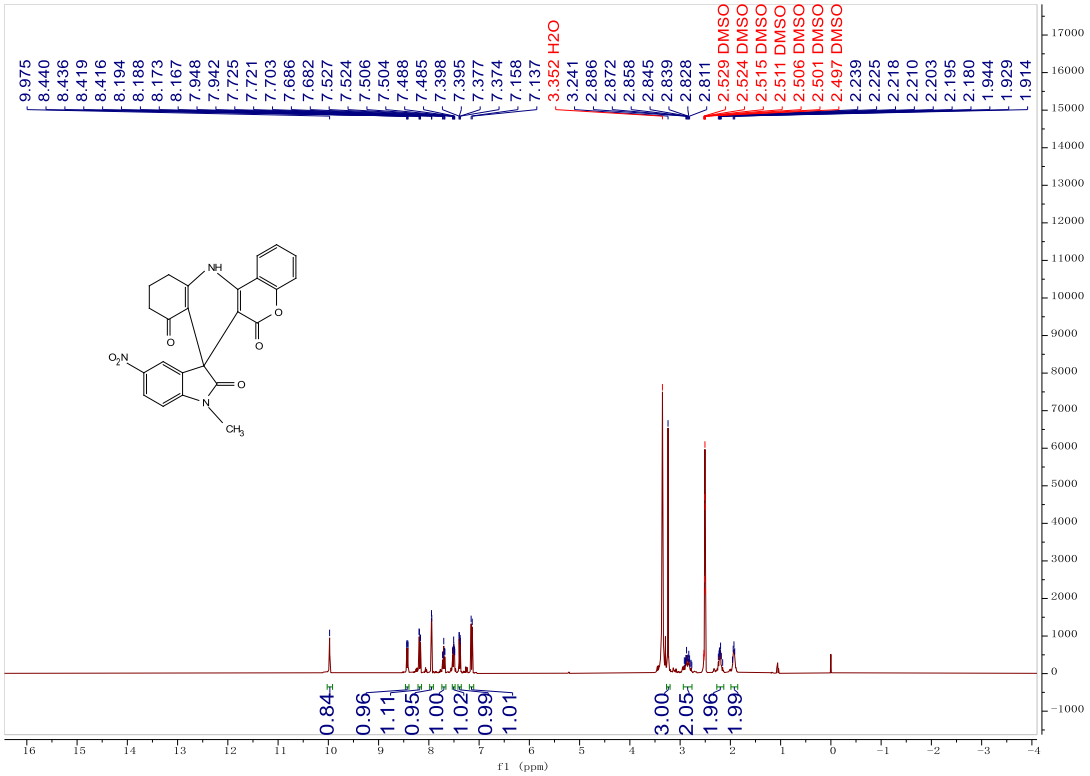

Figure S21. The ^{1}H NMR (400 MHz, DMSO-d_6) of **5f**.

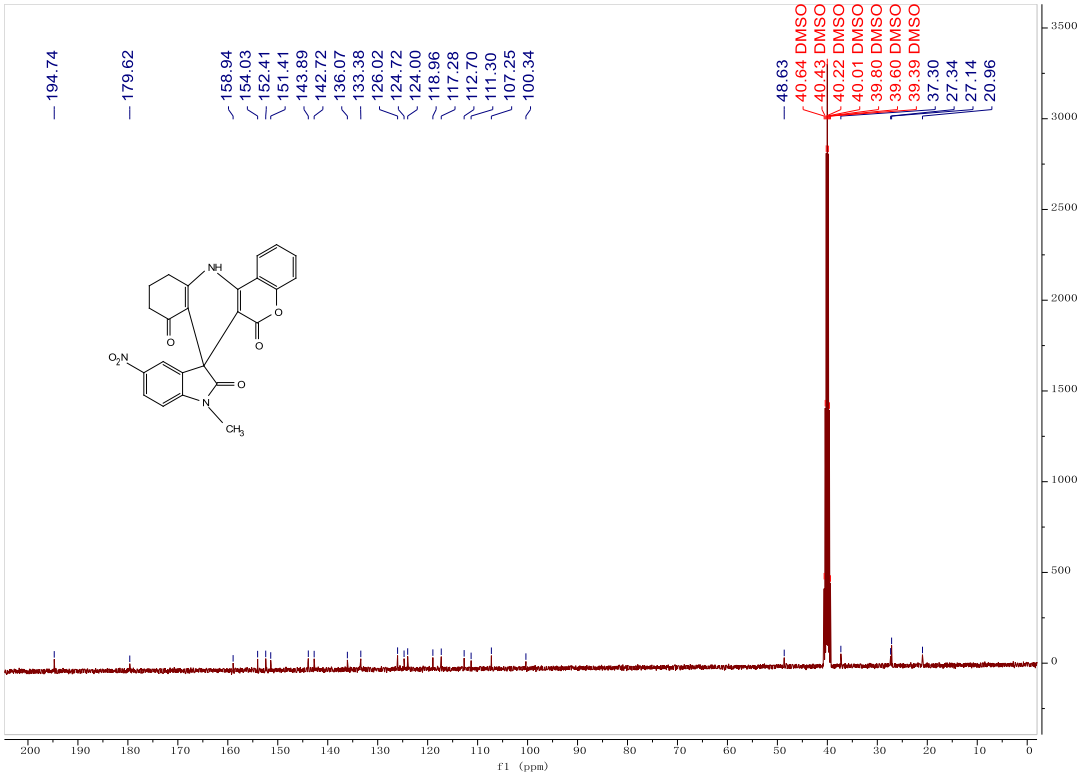

Figure S22. The ^{13}C NMR (100 MHz, DMSO-d_6) of **5f**.

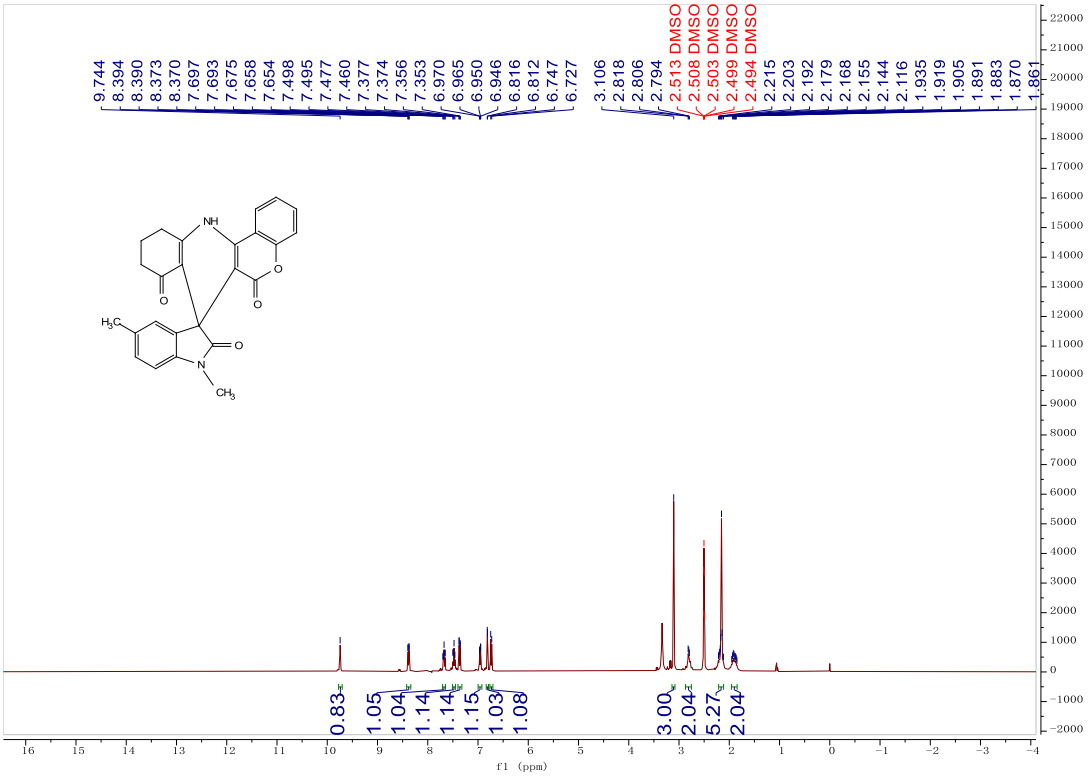

Figure S23. The ^{1}H NMR (400 MHz, DMSO-d_6) of **5g**.

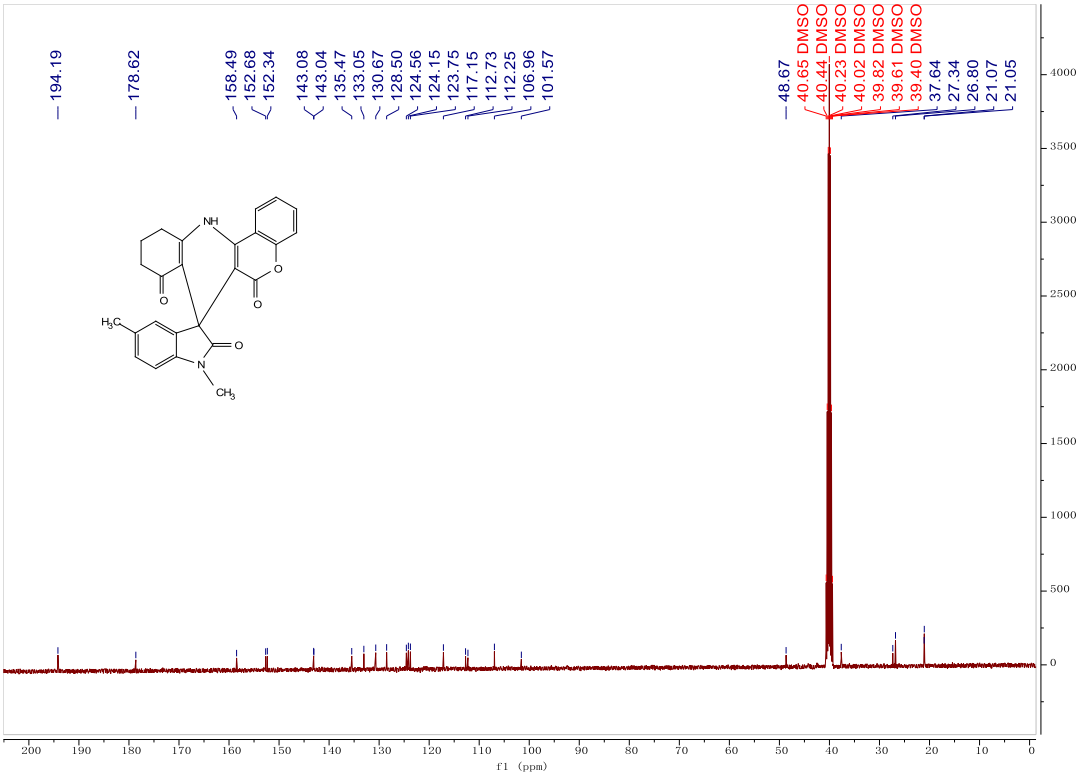

Figure S24. The ^{13}C NMR (100 MHz, DMSO-d_6) of **5g**.

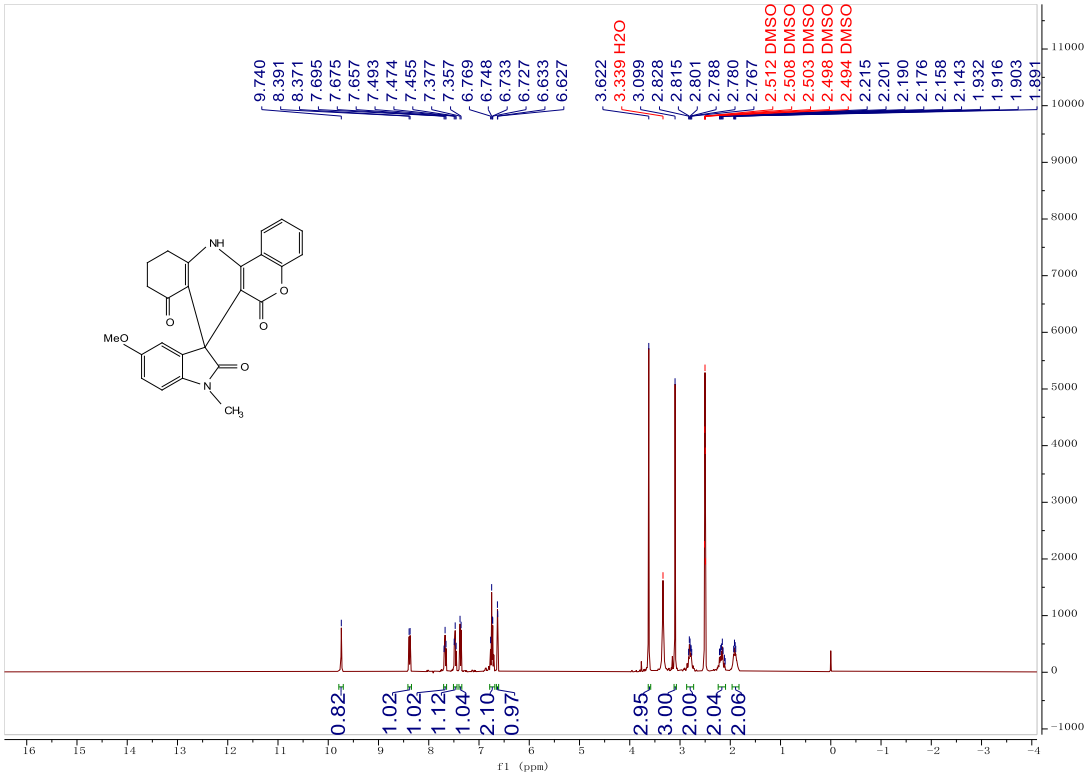

Figure S25. The ^{1}H NMR (400 MHz, DMSO-d_6) of **5h**.

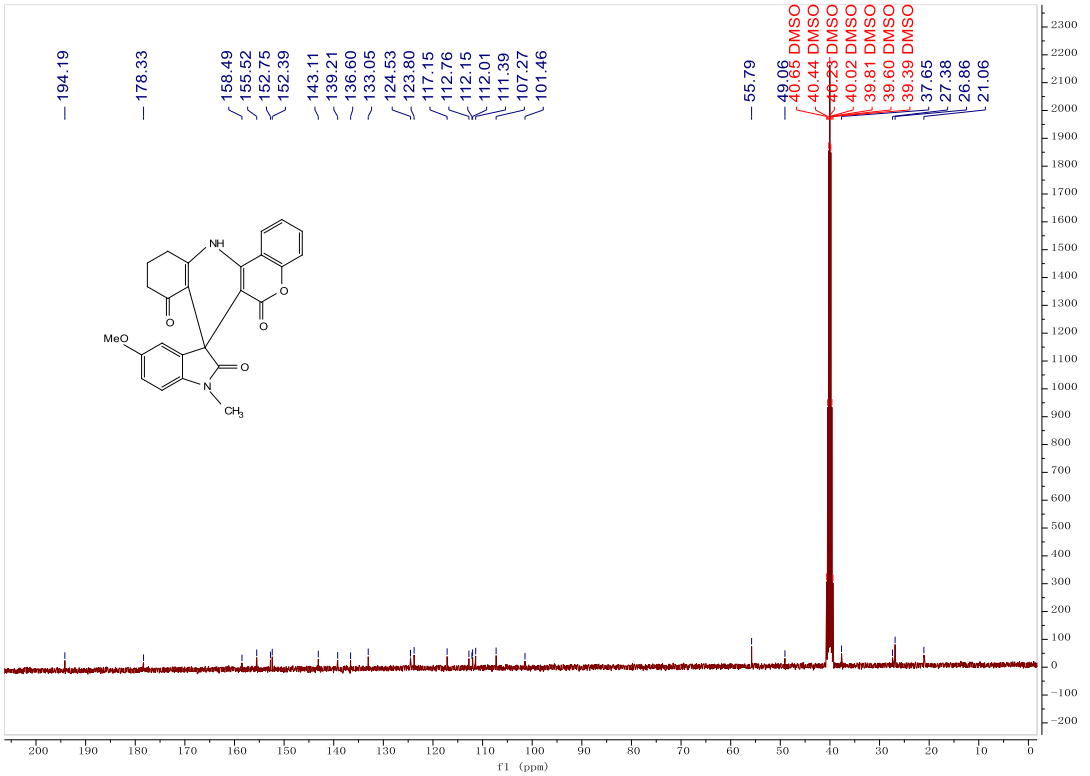

Figure S26. The ^{13}C NMR (100 MHz, DMSO-d_6) of **5h**.

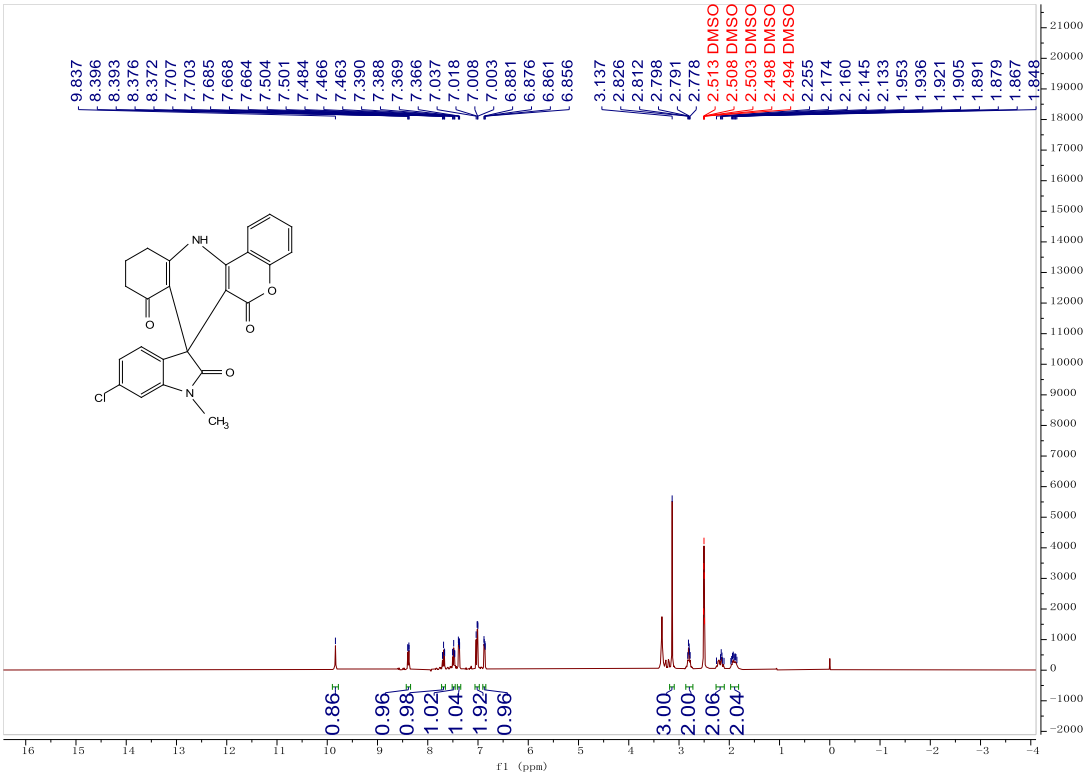

Figure S27. The ^{1}H NMR (400 MHz, DMSO-d_6) of **5i**.

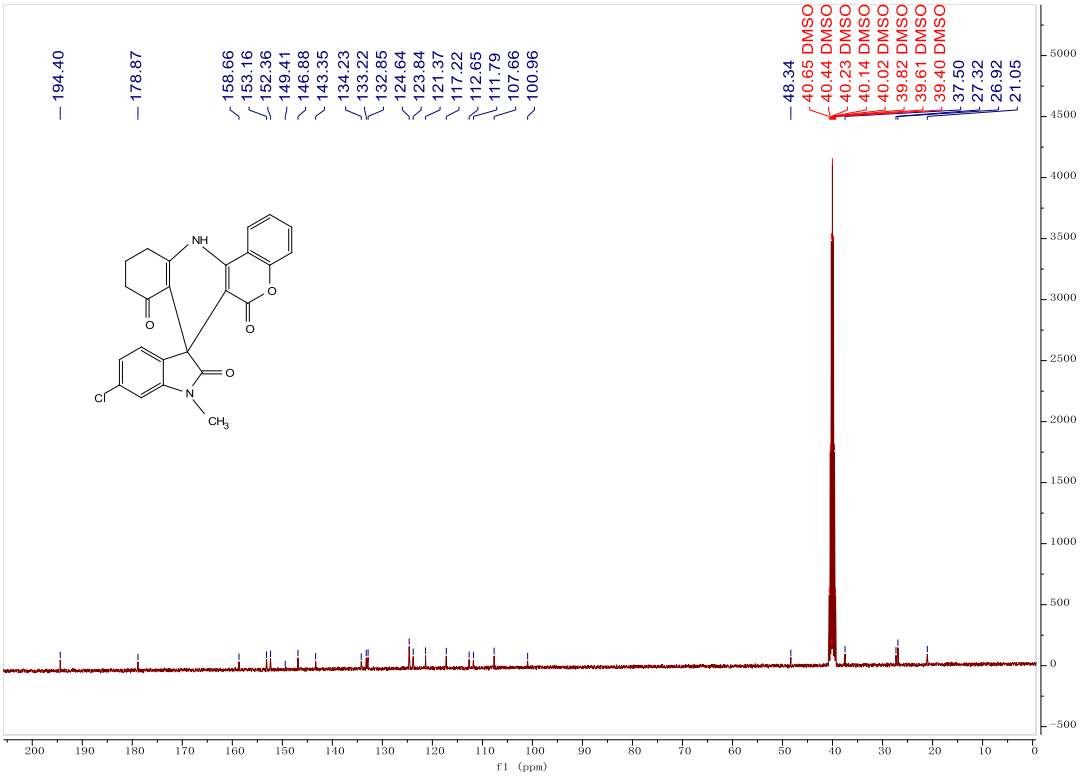

Figure S28. The ^{13}C NMR (100 MHz, DMSO-d_6) of **5i**.

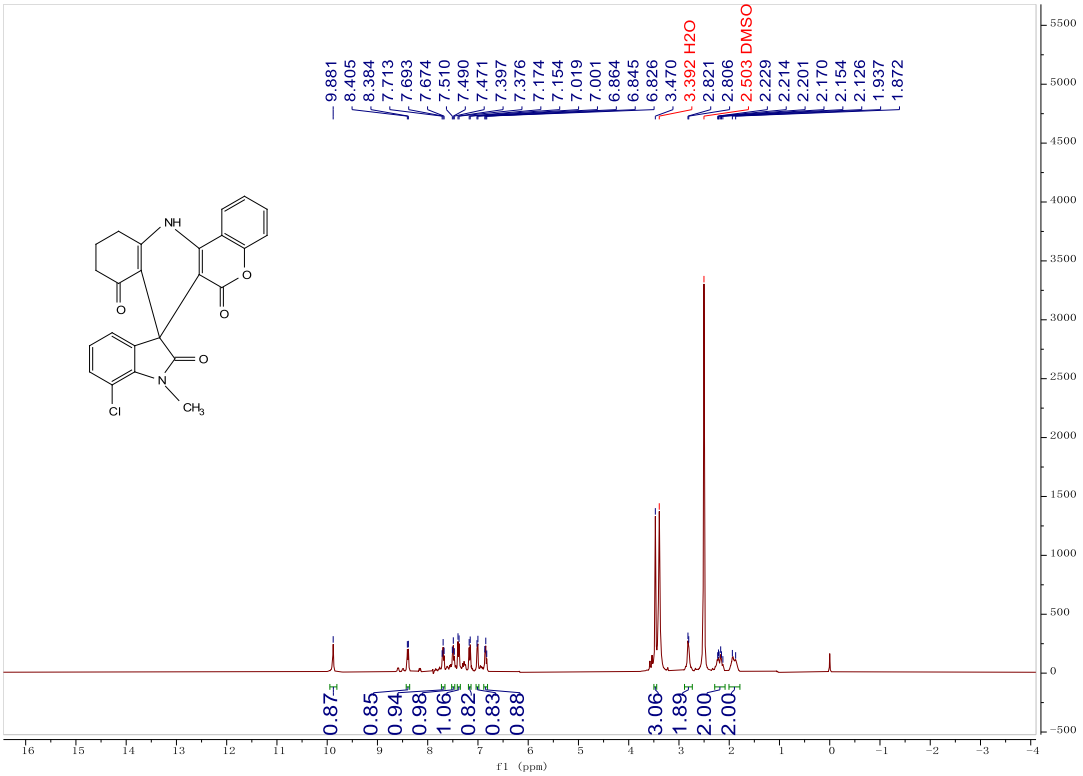

Figure S29. The ^{1}H NMR (400 MHz, DMSO-d_6) of **5j**.

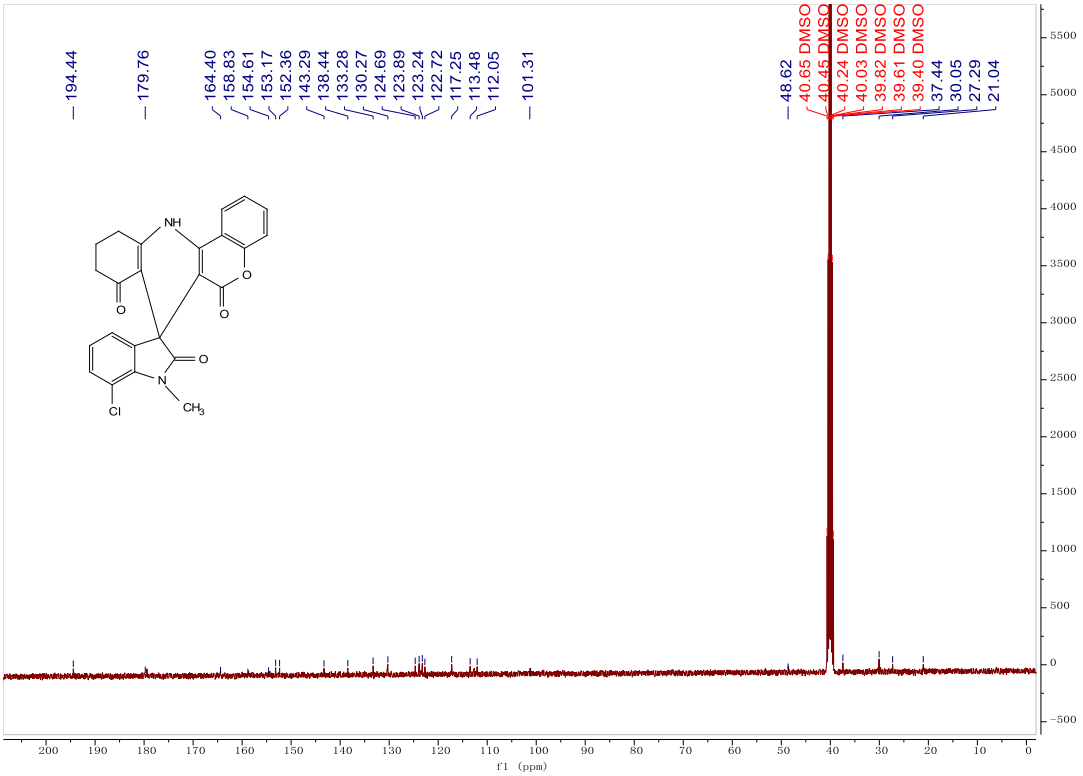

Figure S30. The ^{13}C NMR (100 MHz, DMSO-d_6) of **5j**.

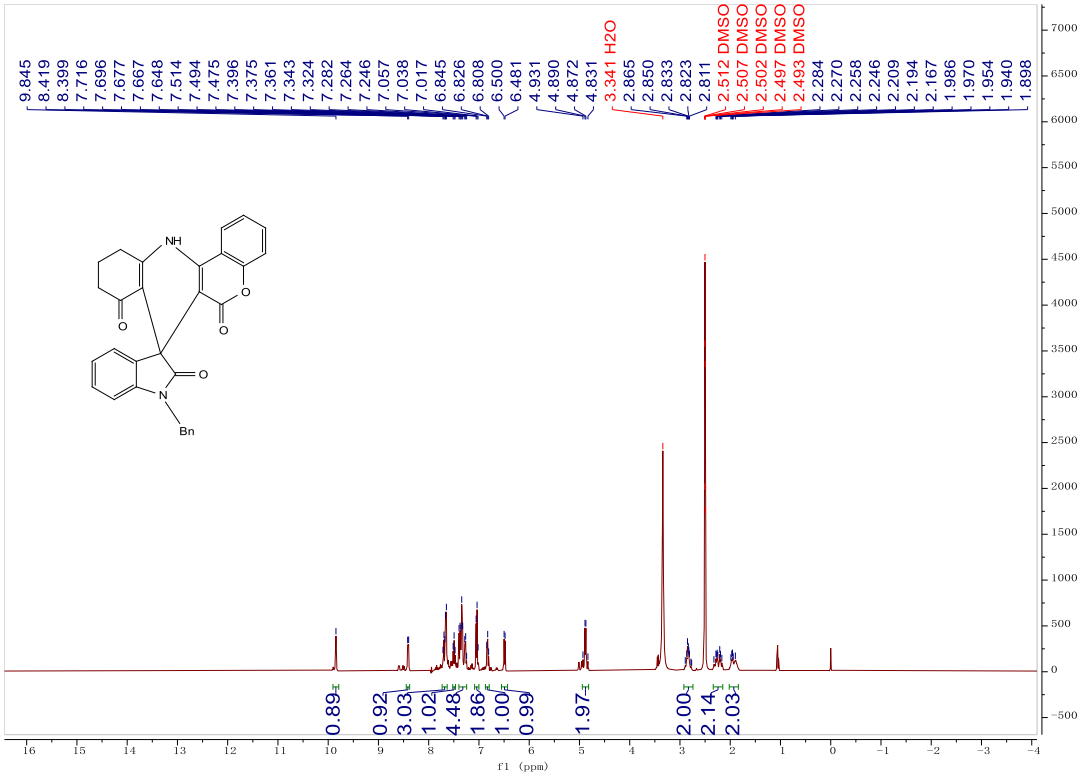

Figure S31. The ^{1}H NMR (400 MHz, DMSO-d_6) of **5k**.

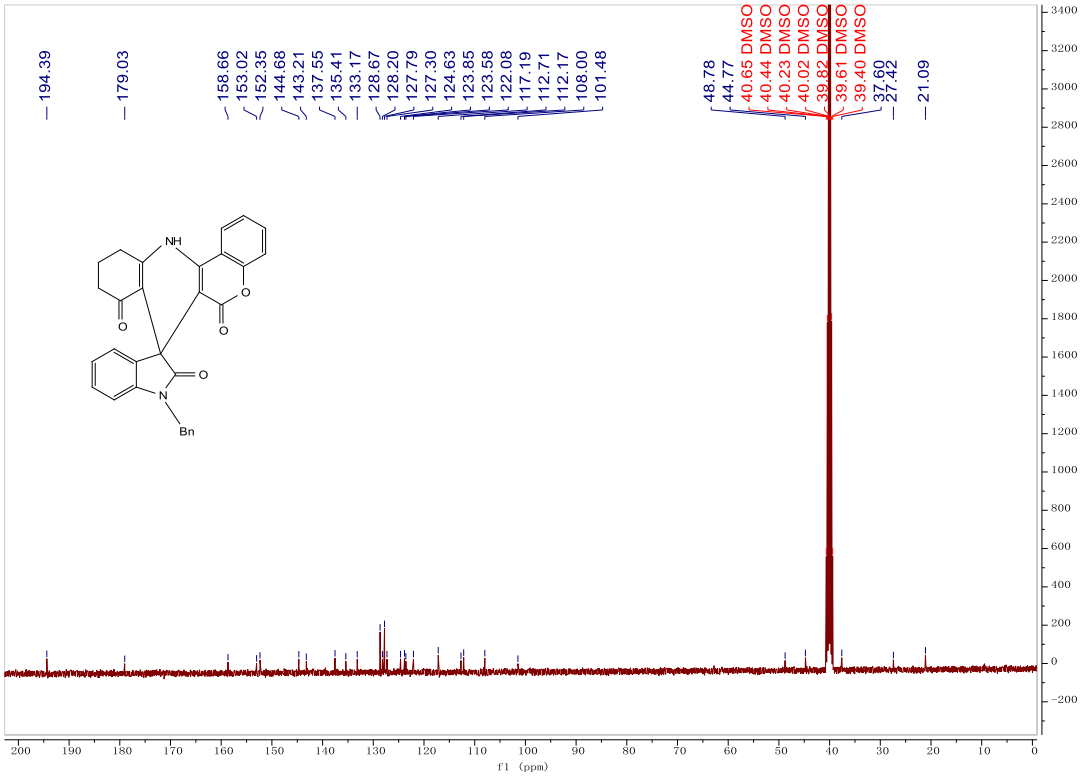

Figure S32. The ^{13}C NMR (100 MHz, DMSO-d_6) of **5k**.

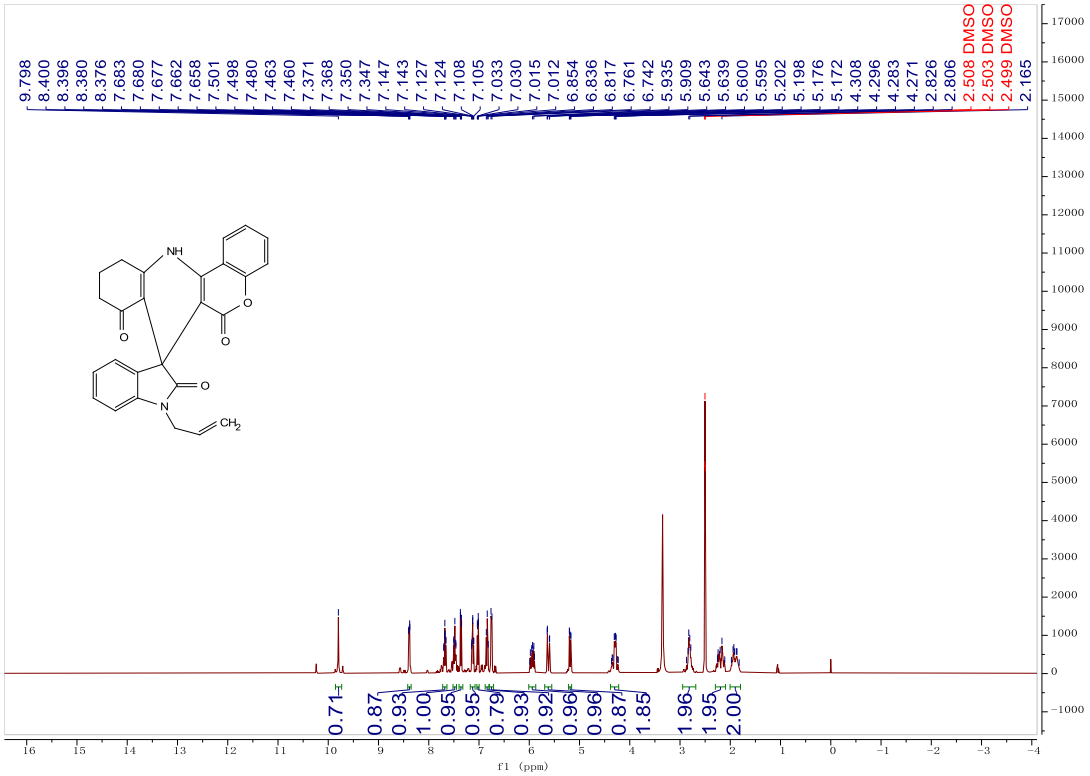

Figure S33. The ^{1}H NMR (400 MHz, DMSO-d_6) of **5l**.

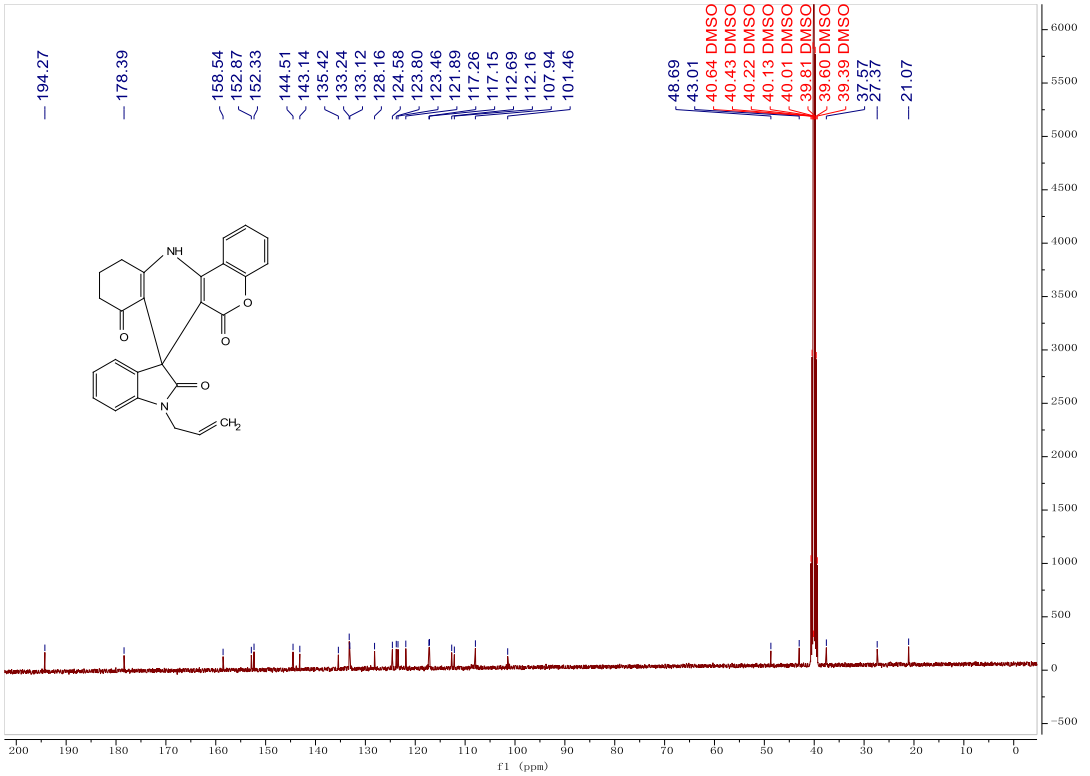

Figure S34. The ^{13}C NMR (100 MHz, DMSO-d_6) of **5l**.

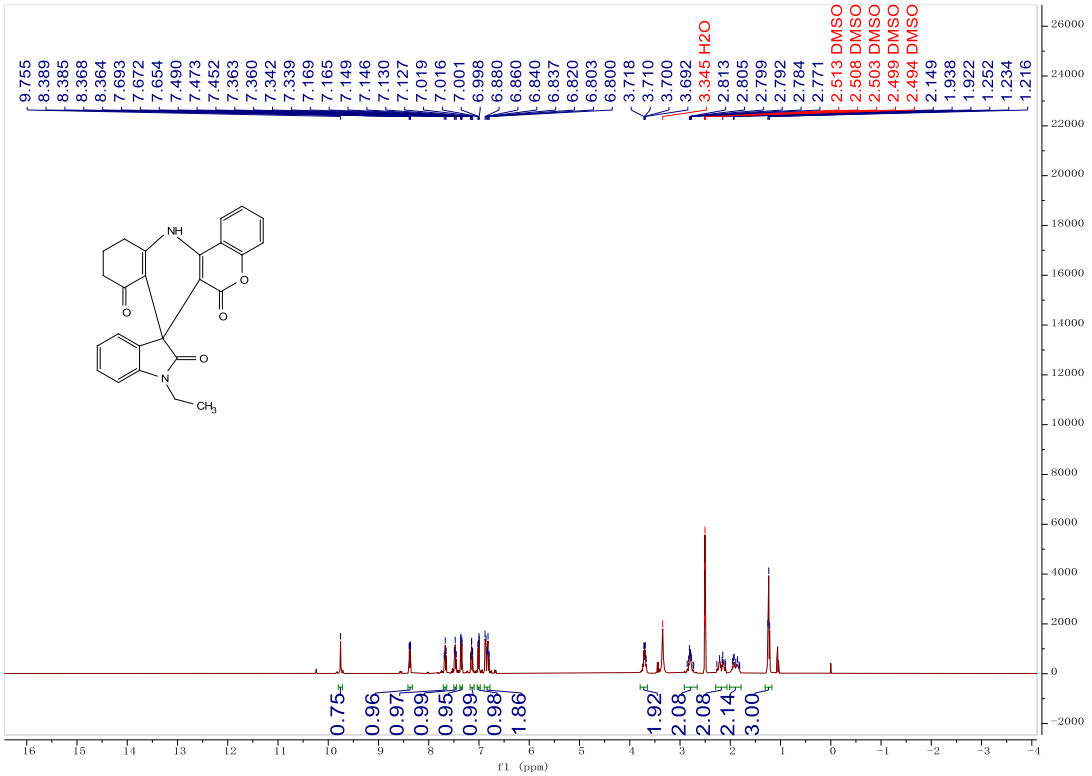

Figure S35. The ^{1}H NMR (400 MHz, DMSO-d_6) of **5m**.

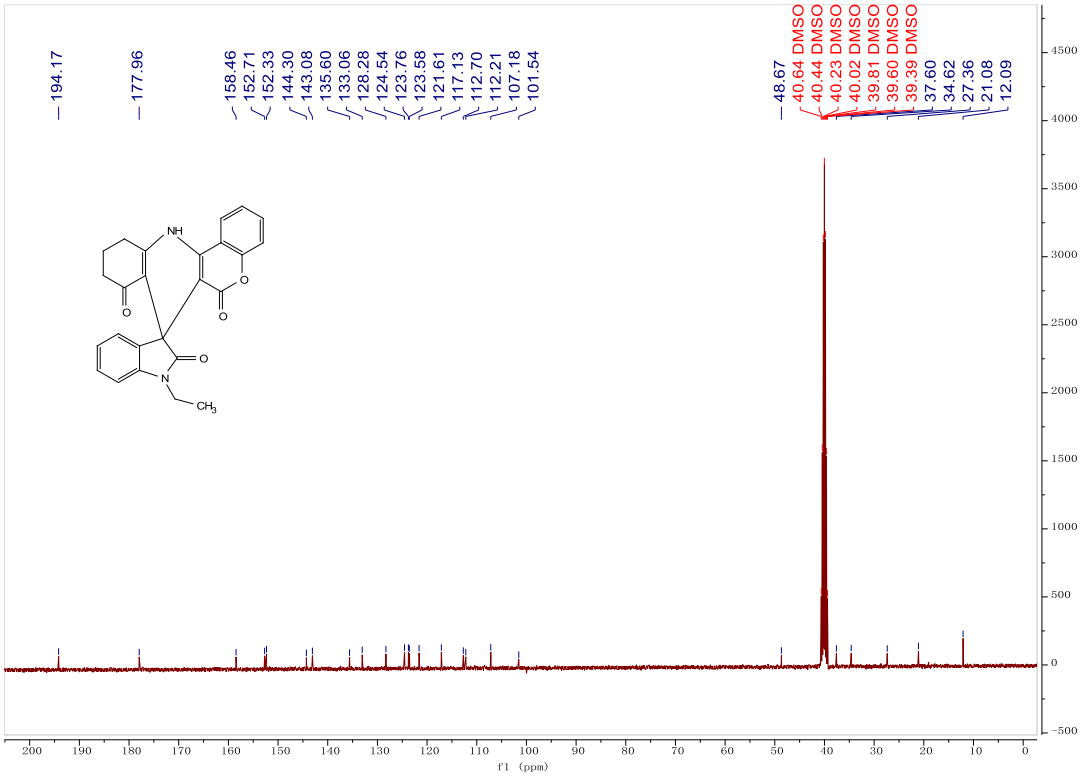

Figure S36. The ^{13}C NMR (100 MHz, DMSO-d_6) of **5m**.

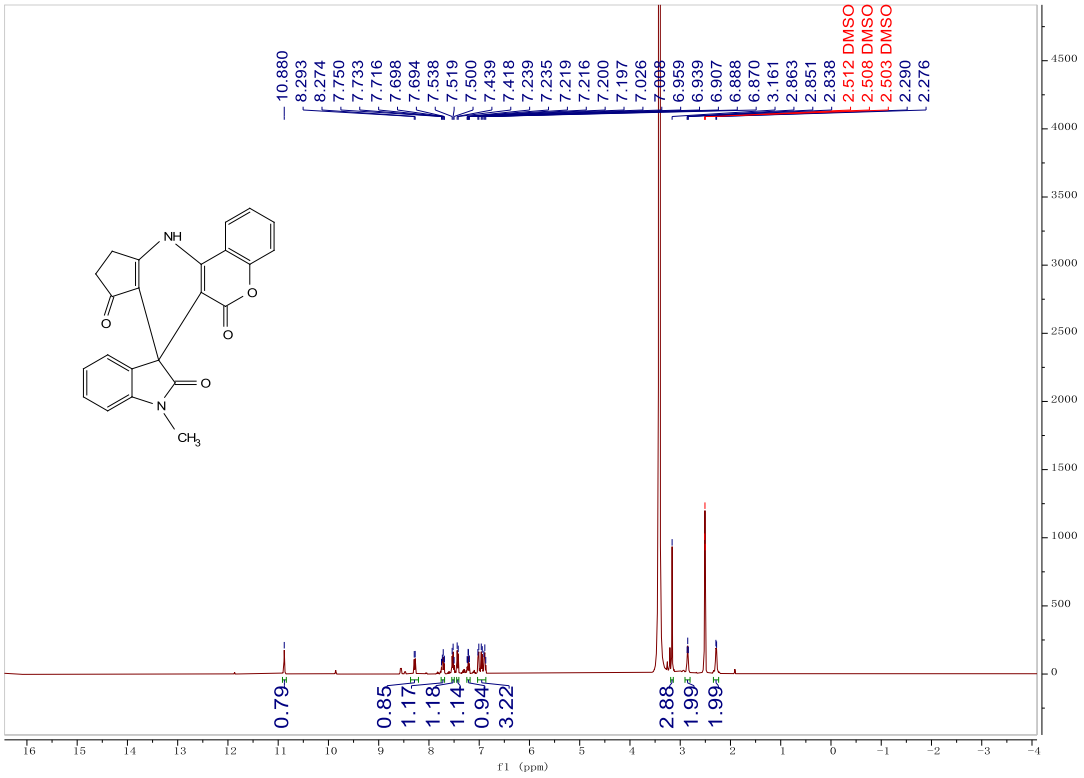

Figure S37. The ^{1}H NMR (400 MHz, DMSO-d_6) of **6a**.

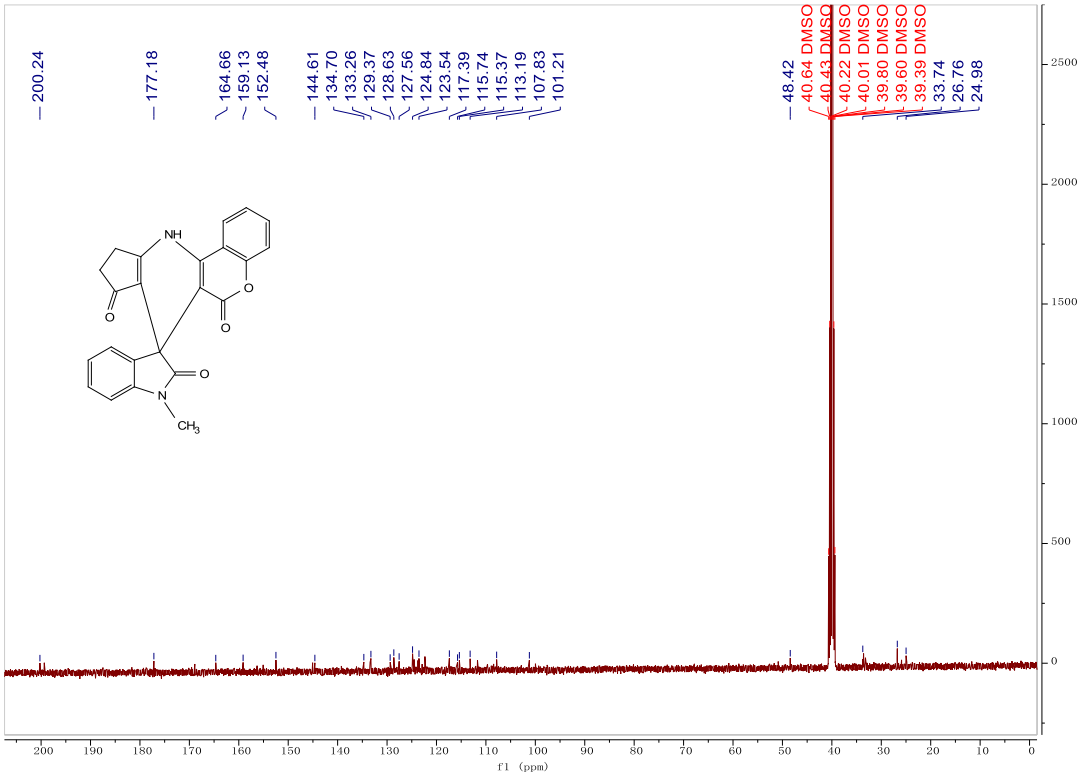

Figure S38. The ^{13}C NMR (100 MHz, DMSO-d_6) of **6a**.

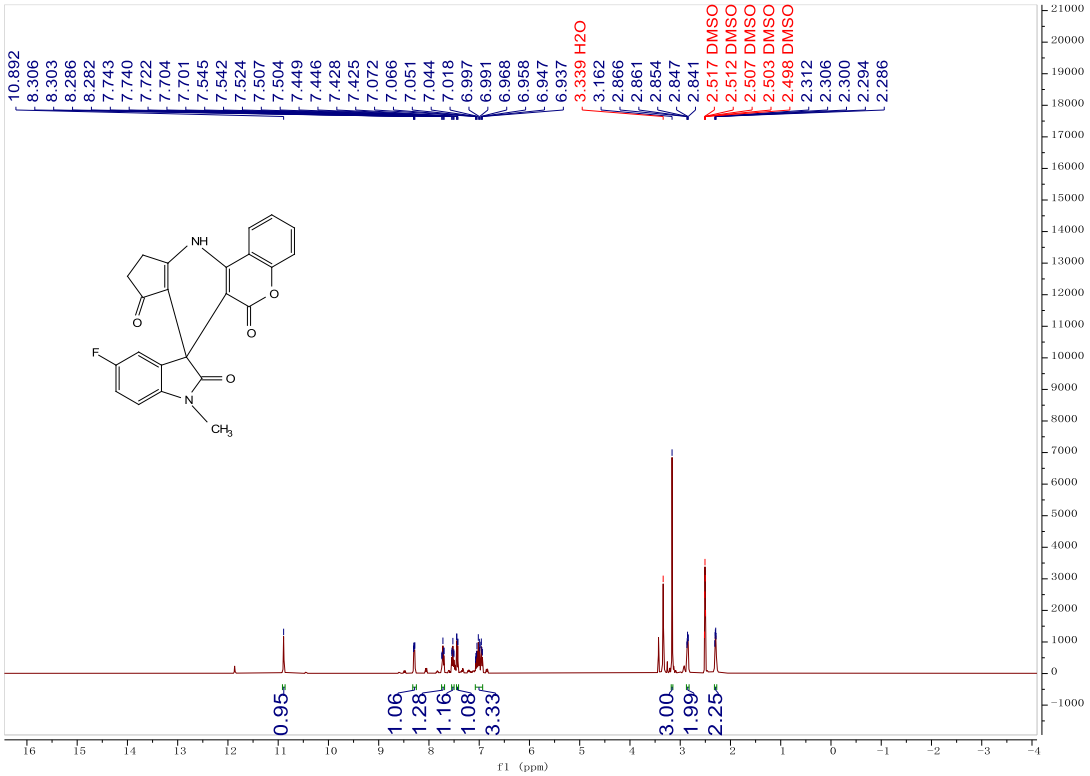

Figure S39. The ^{1}H NMR (400 MHz, DMSO-d_6) of **6b**.

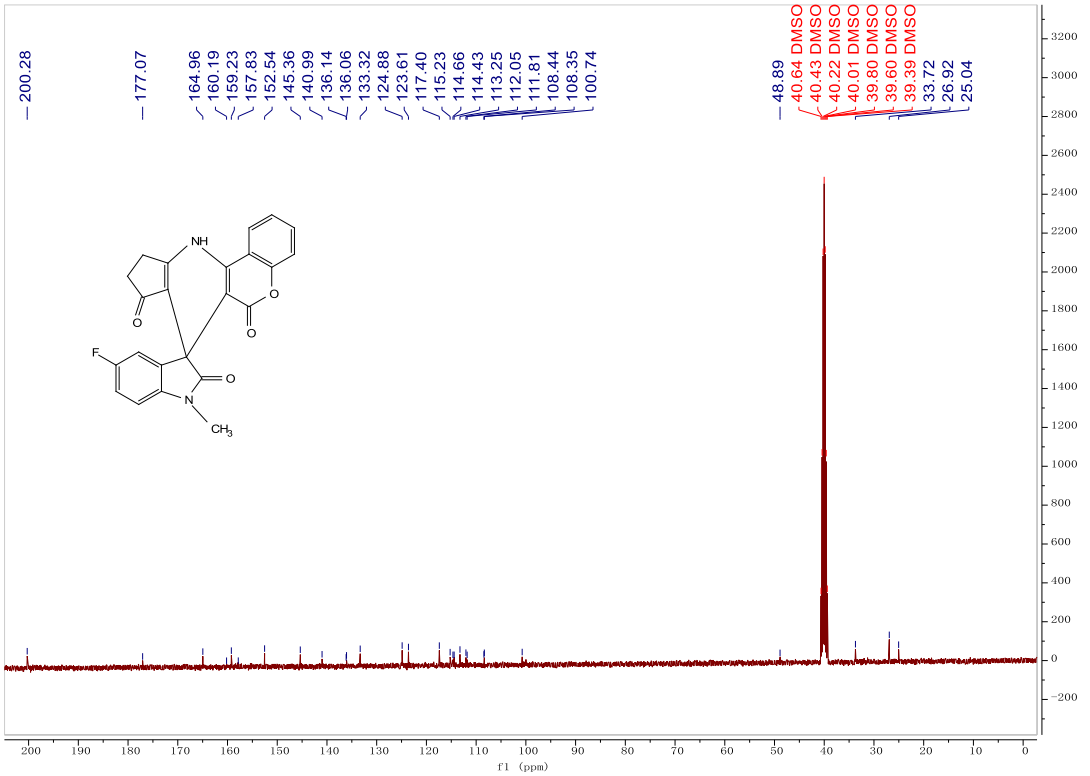

Figure S40. The ^{13}C NMR (100 MHz, DMSO-d_6) of **6b**.

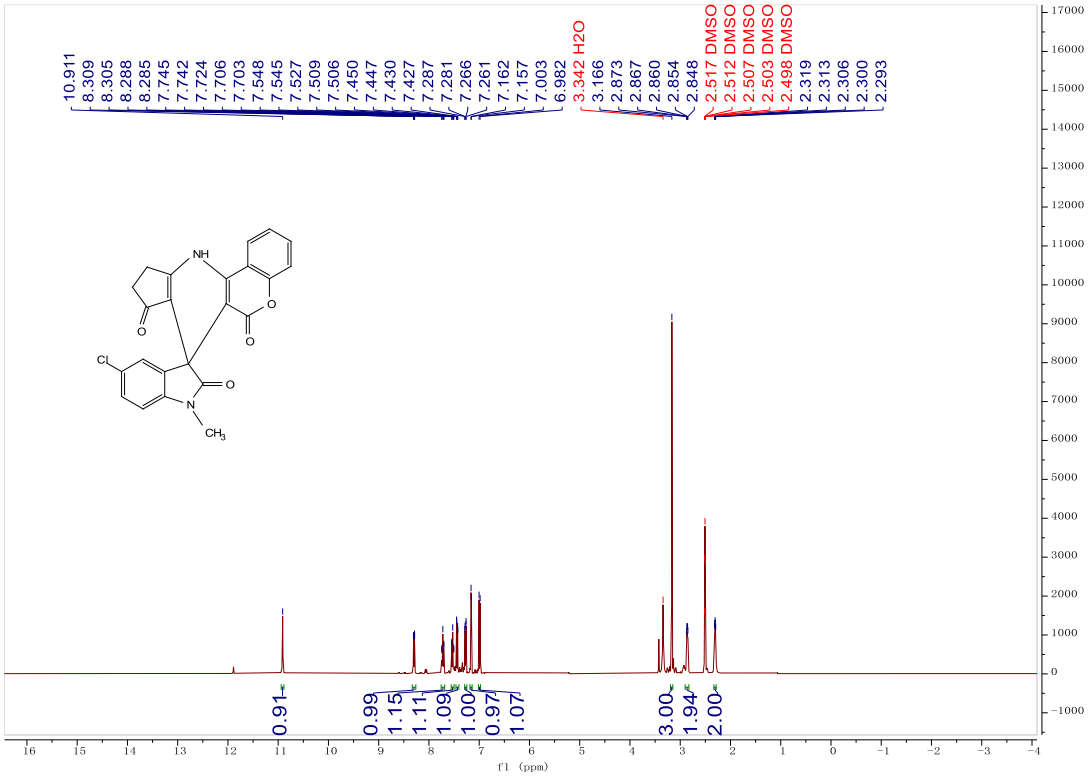

Figure S41. The ^{1}H NMR (400 MHz, DMSO-d_6) of **6c**.

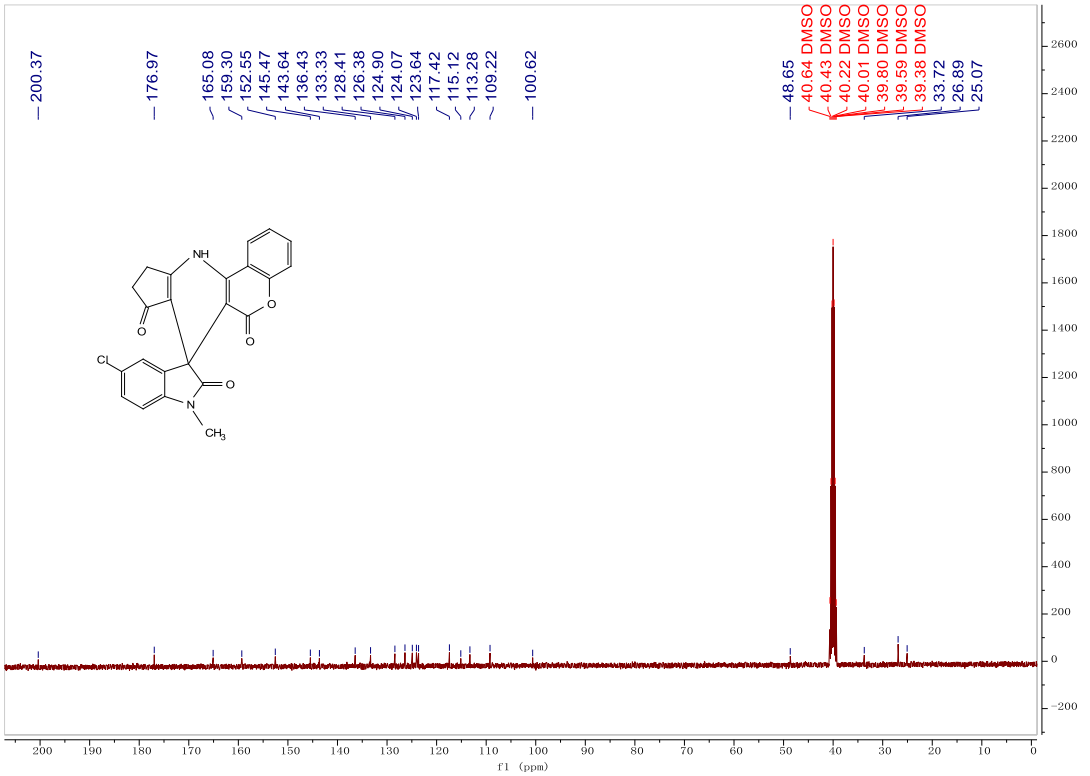

Figure S42. The ^{13}C NMR (100 MHz, DMSO-d_6) of **6c**.

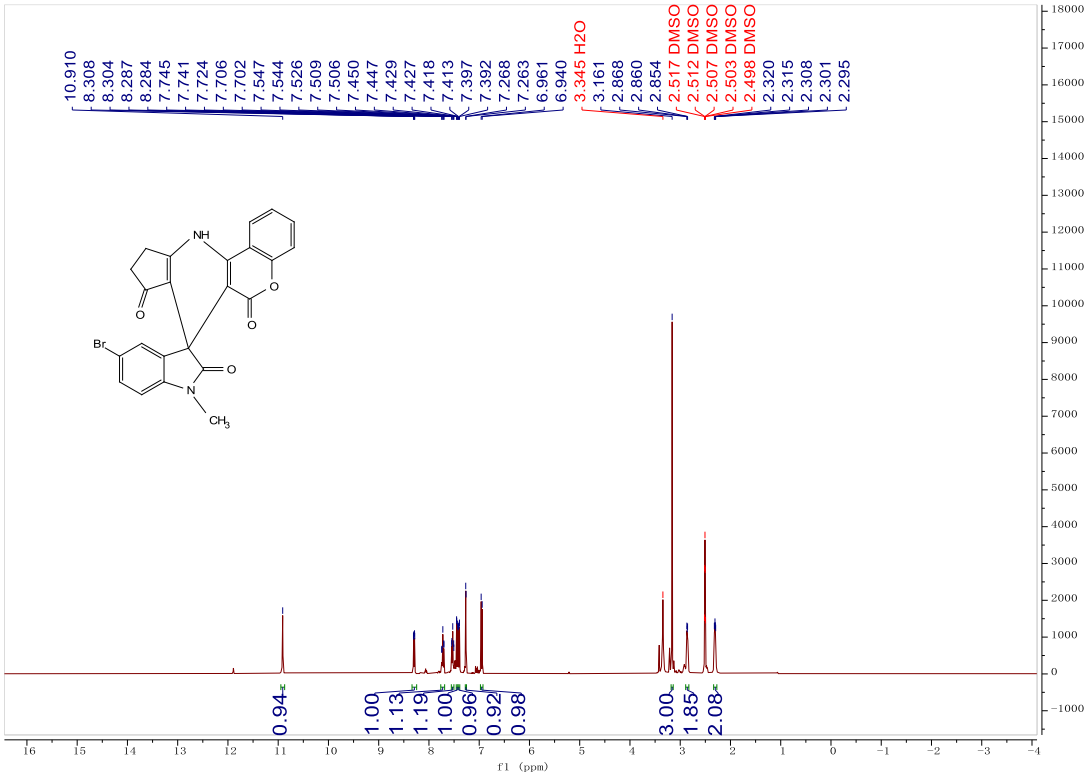

Figure S43. The ^{1}H NMR (400 MHz, DMSO-d_6) of **6d**.

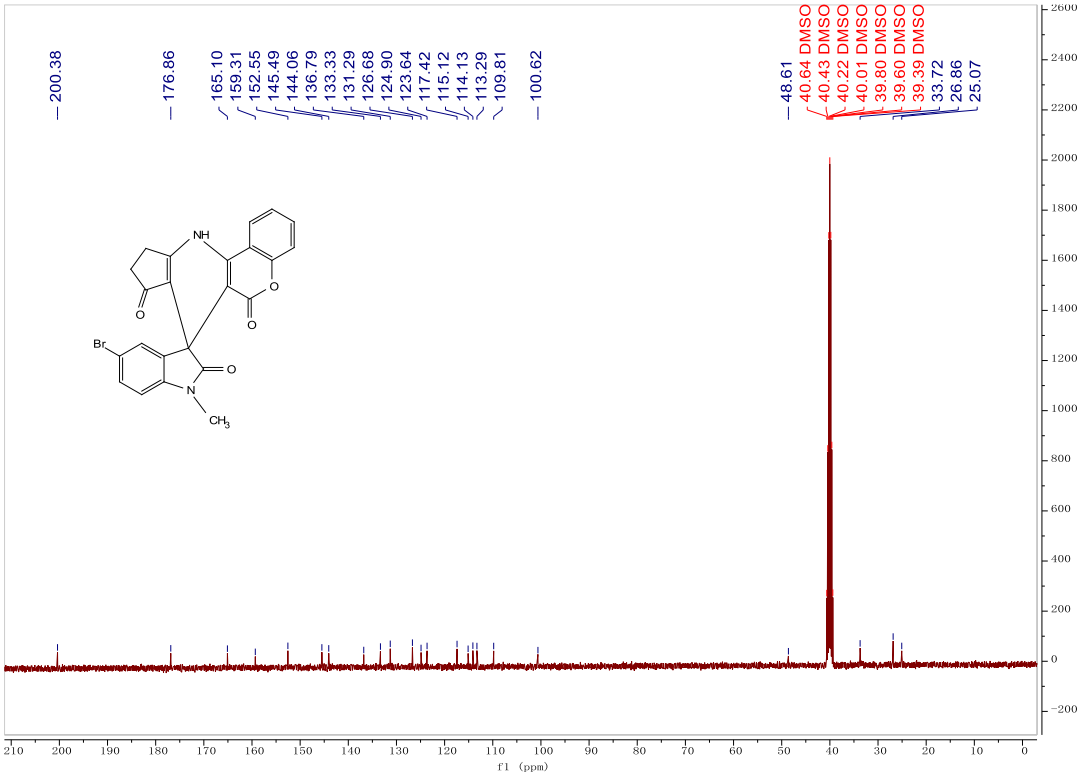

Figure S44. The ^{13}C NMR (100 MHz, DMSO-d_6) of **6d**.

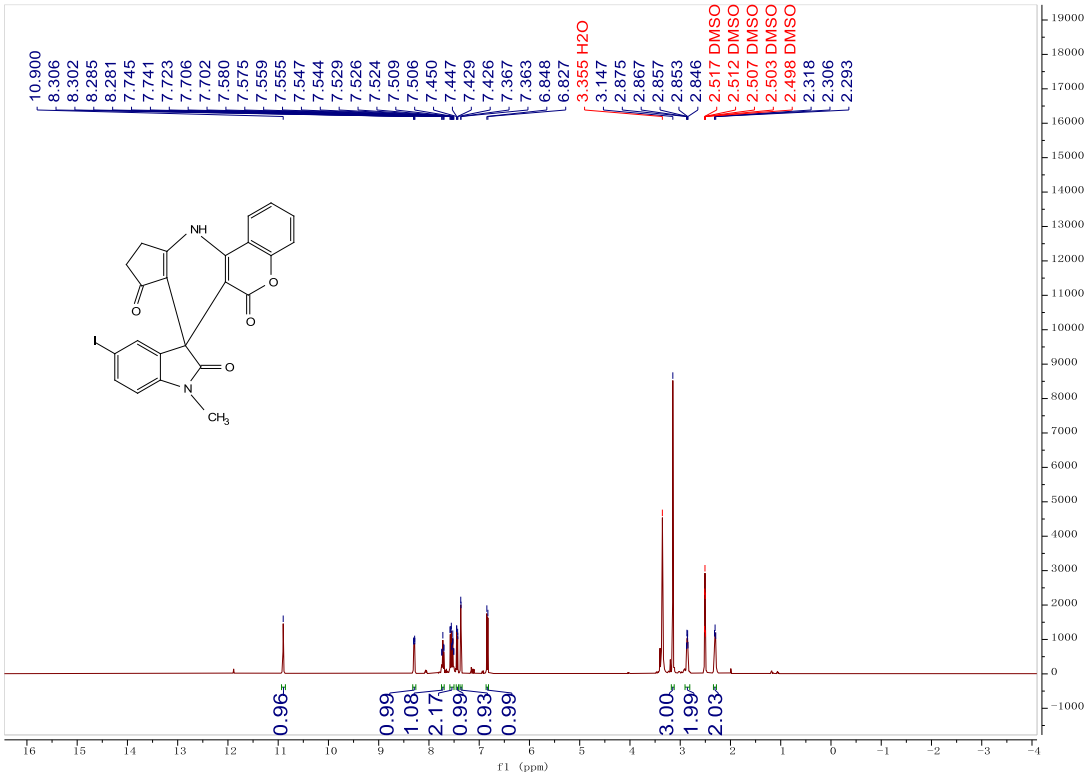

Figure S45. The ^{1}H NMR (400 MHz, DMSO-d_6) of **6e**.

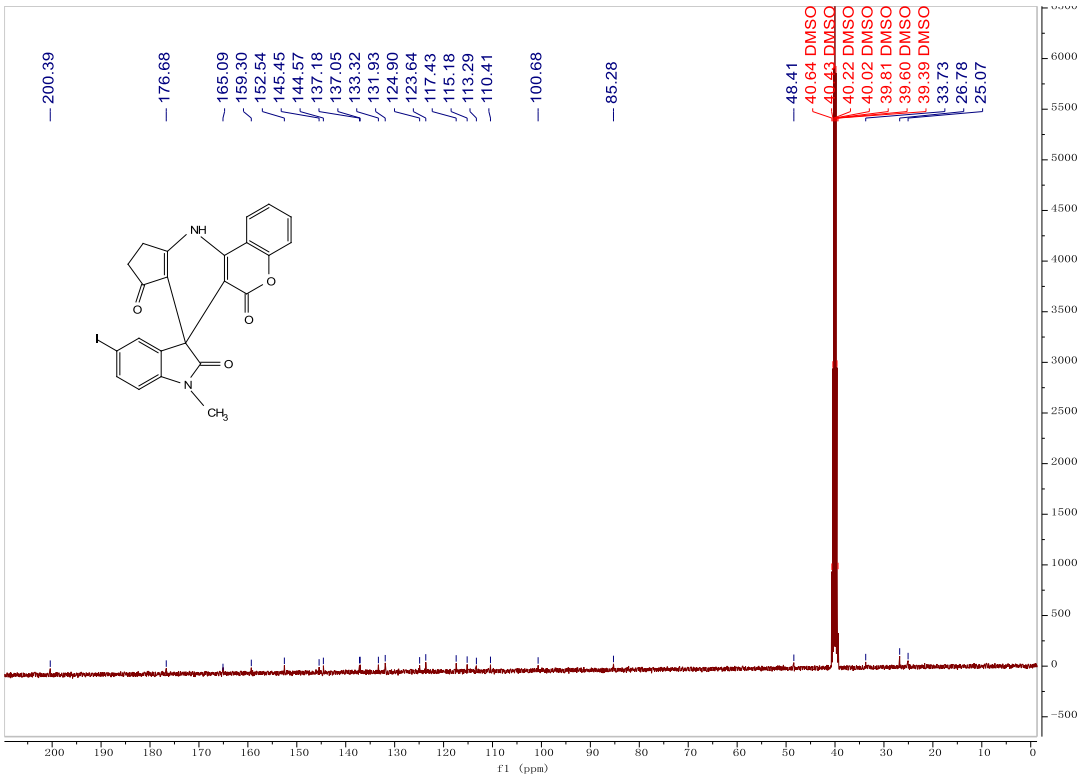

Figure S46. The ^{13}C NMR (100 MHz, DMSO-d_6) of **6e**.

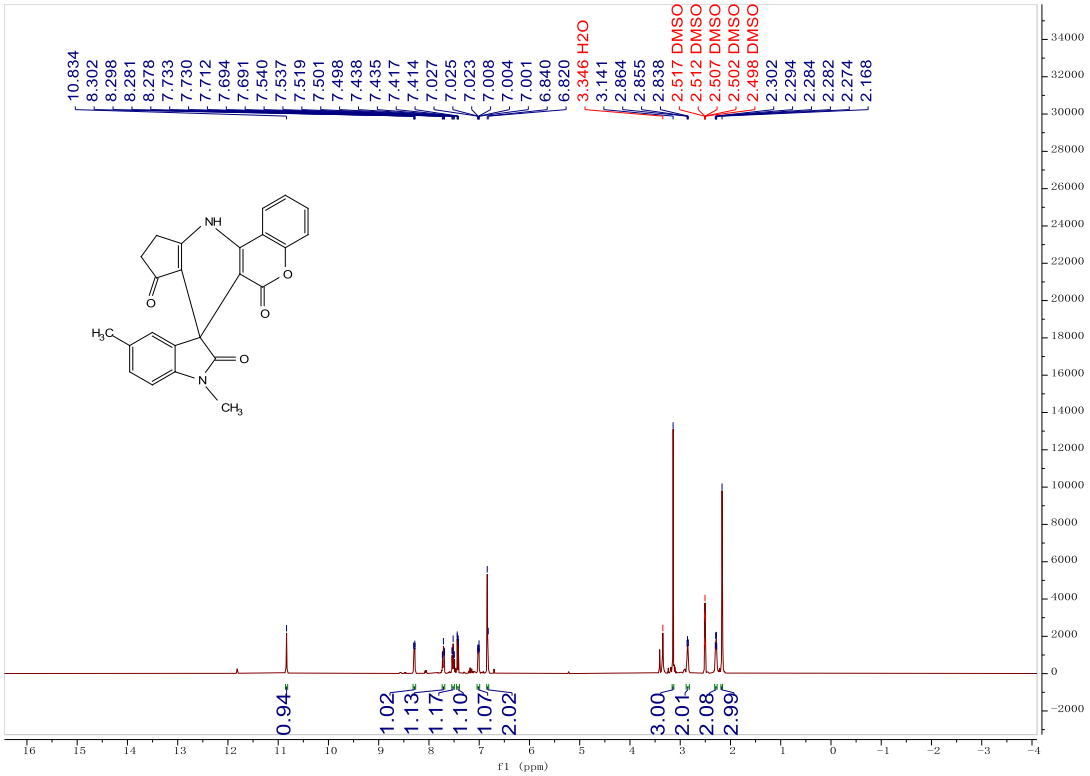

Figure S47. The ^{1}H NMR (400 MHz, DMSO-d_6) of **6f**.

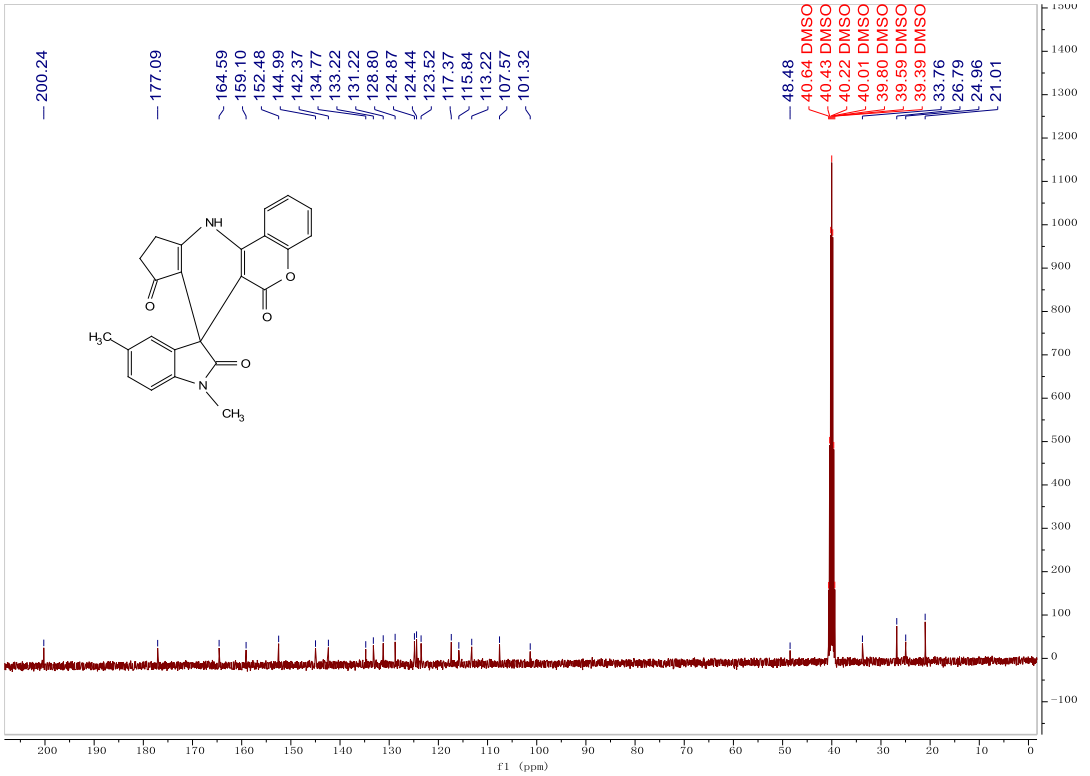

Figure S48. The ^{13}C NMR (100 MHz, DMSO-d_6) of **6f**.

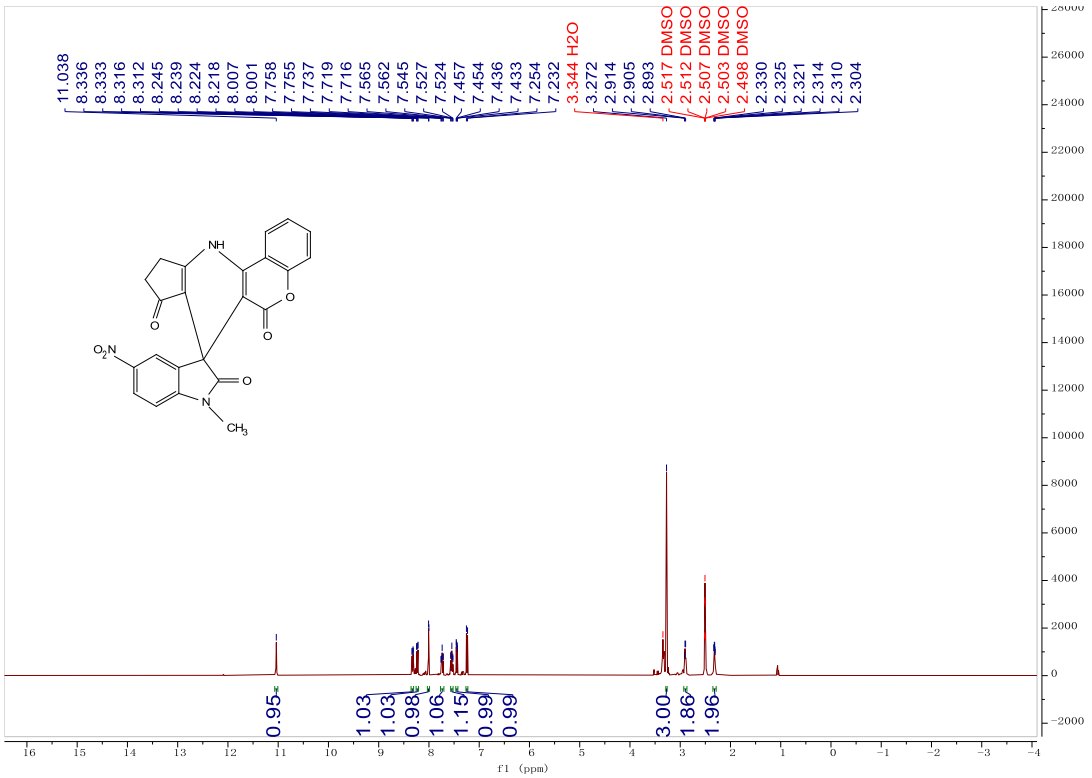

Figure S49. The ^{1}H NMR (400 MHz, DMSO-d_6) of **6g**.

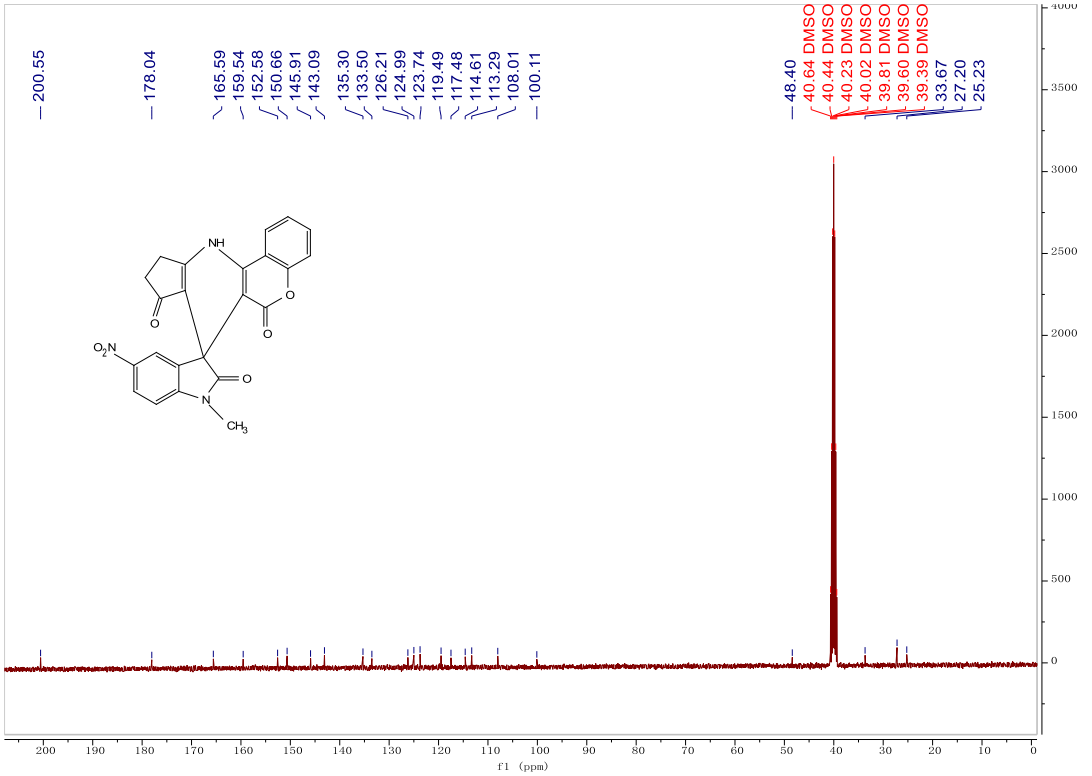

Figure S50. The ^{13}C NMR (100 MHz, DMSO-d_6) of **6g**.

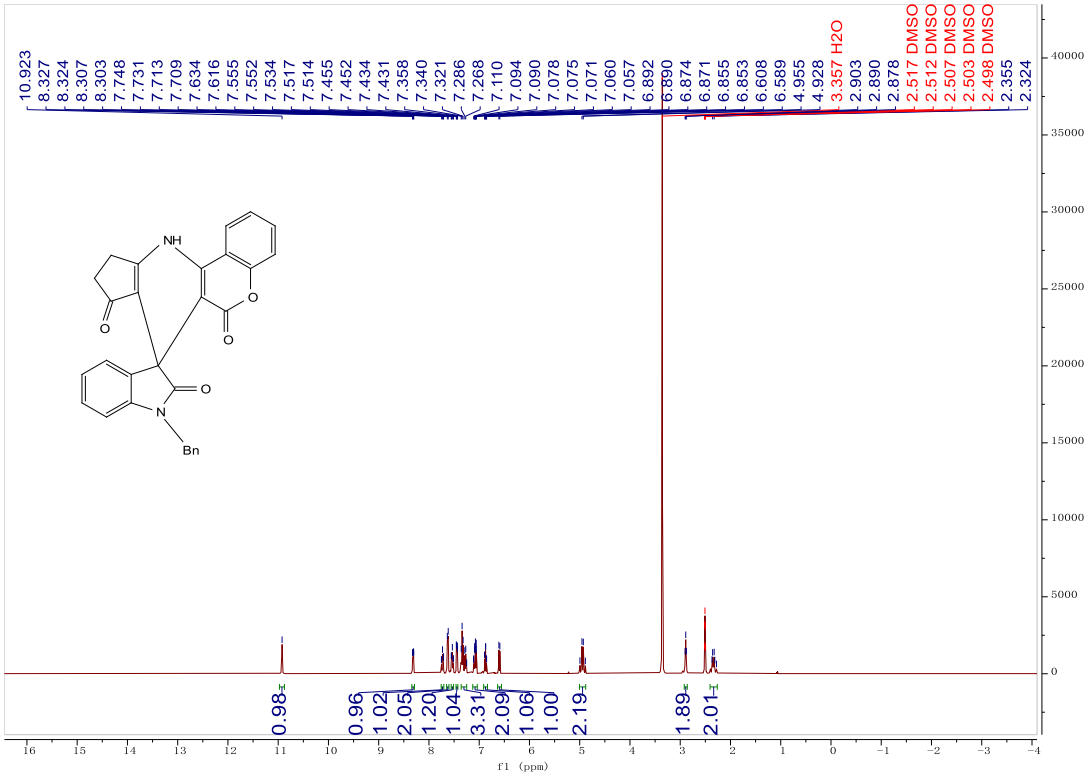

Figure S51. The ^{1}H NMR (400 MHz, DMSO-d_6) of **6h**.

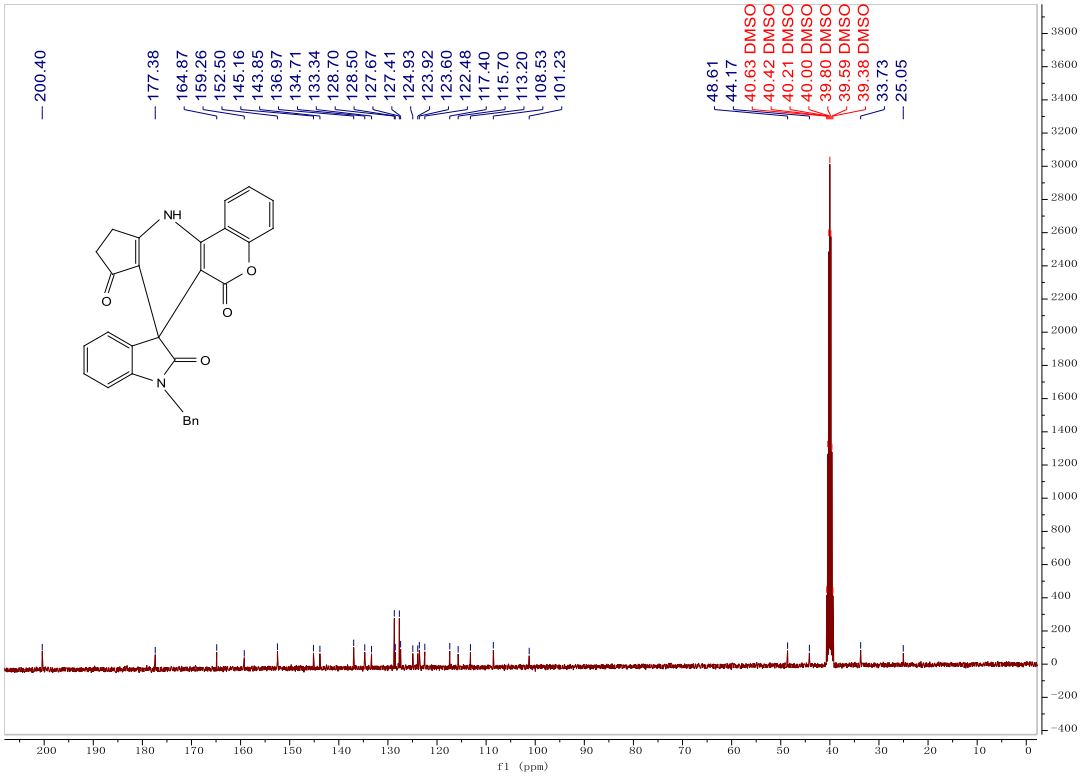

Figure S52. The ^{13}C NMR (100 MHz, DMSO-d_6) of **6h**.

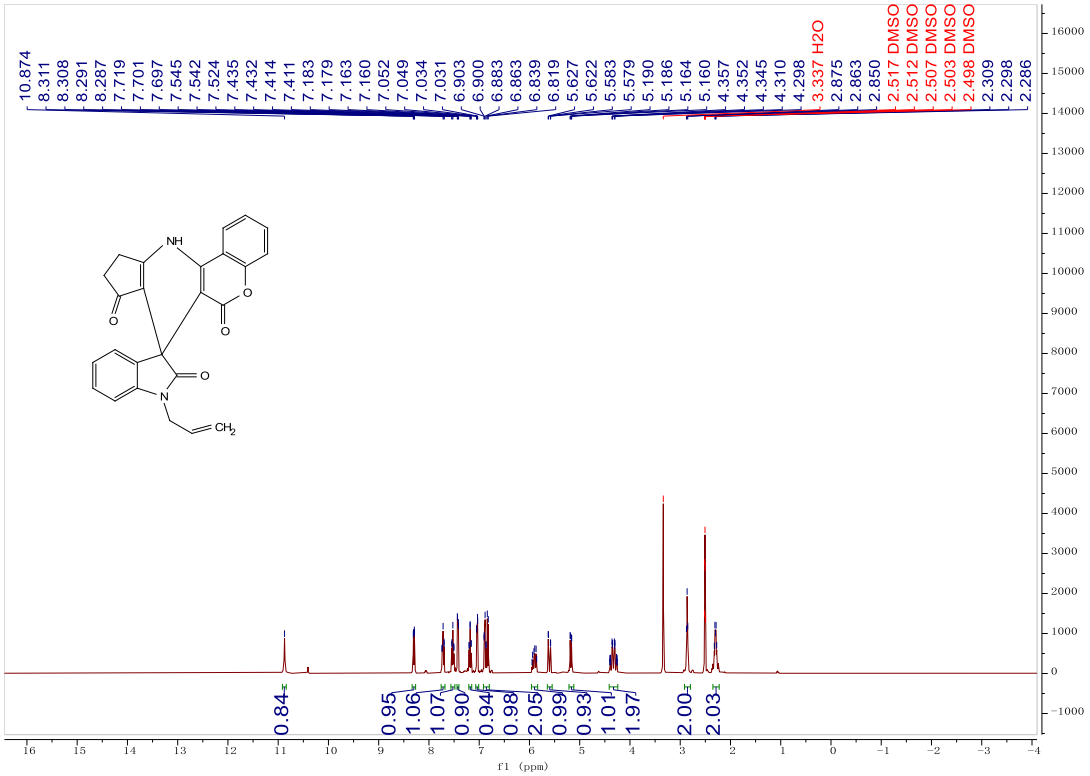

Figure S53. The ^{1}H NMR (400 MHz, DMSO-d_6) of **6i**.

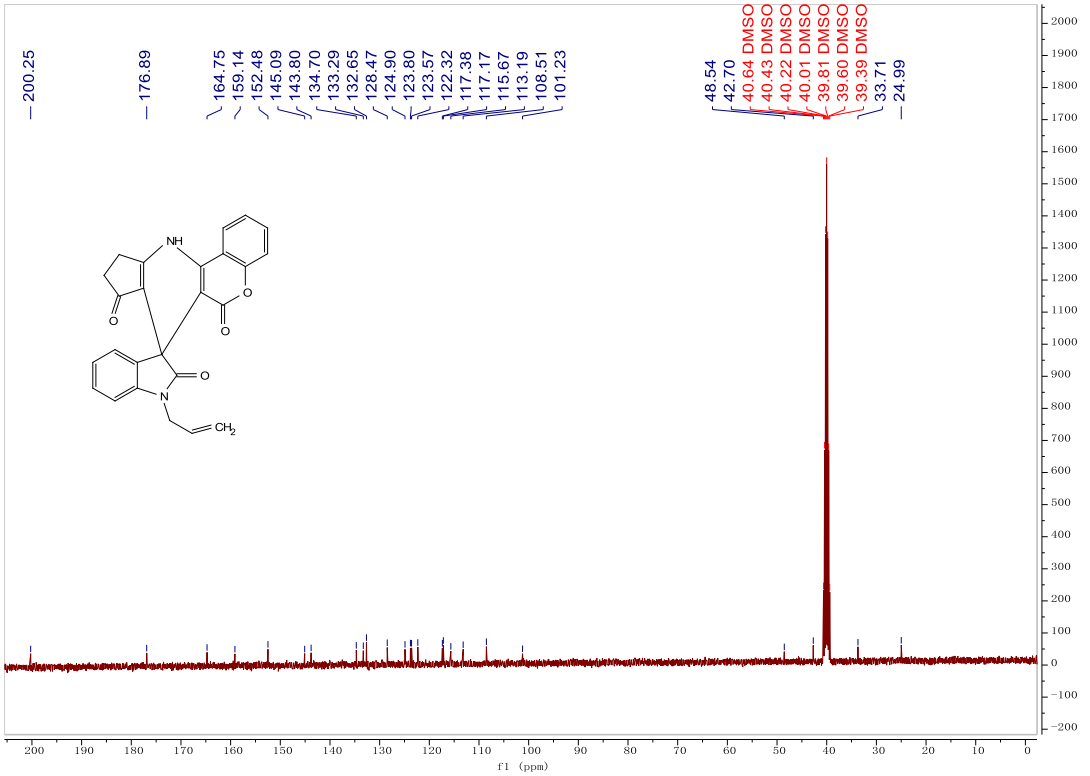

Figure S54. The ^{13}C NMR (100 MHz, DMSO-d_6) of **6i**.

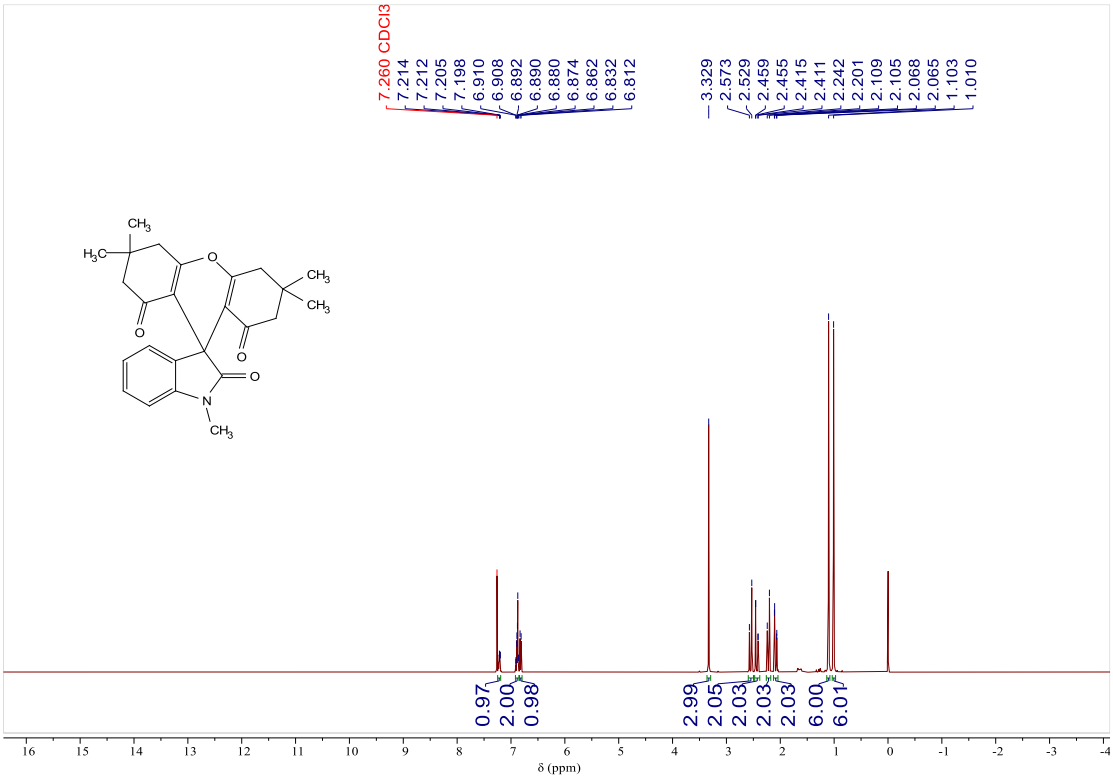

Figure S55. The ^{1}H NMR (400 MHz, $CDCl_3$) of **7**

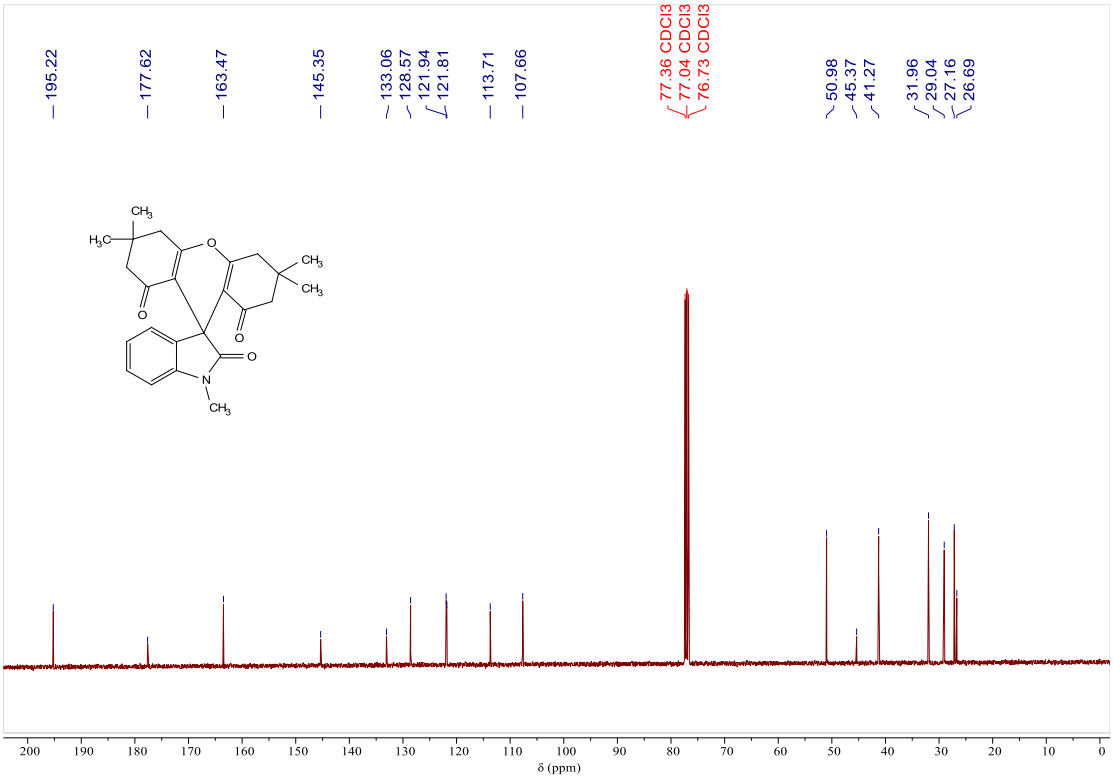

Figure S56. The ^{13}C NMR (100 MHz, $CDCl_3$) of 7