

3-(1,2,3-Triazol-4-yl)- β -Carbolines and 3-(1*H*-Tetrazol-5-yl)- β -Carbolines: Synthesis and Evaluation as Anticancer Agents

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Supporting Information

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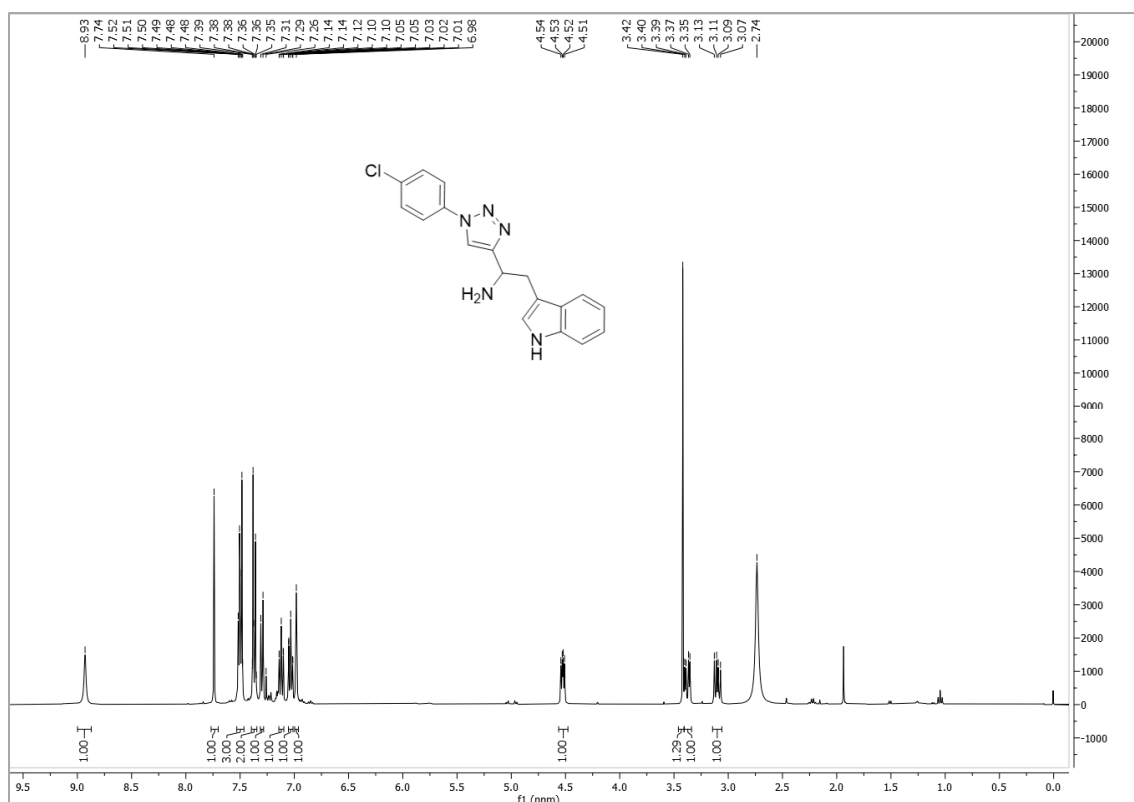


Figure S1. ¹H NMR spectrum of amine **11** (400 MHz, CDCl₃).

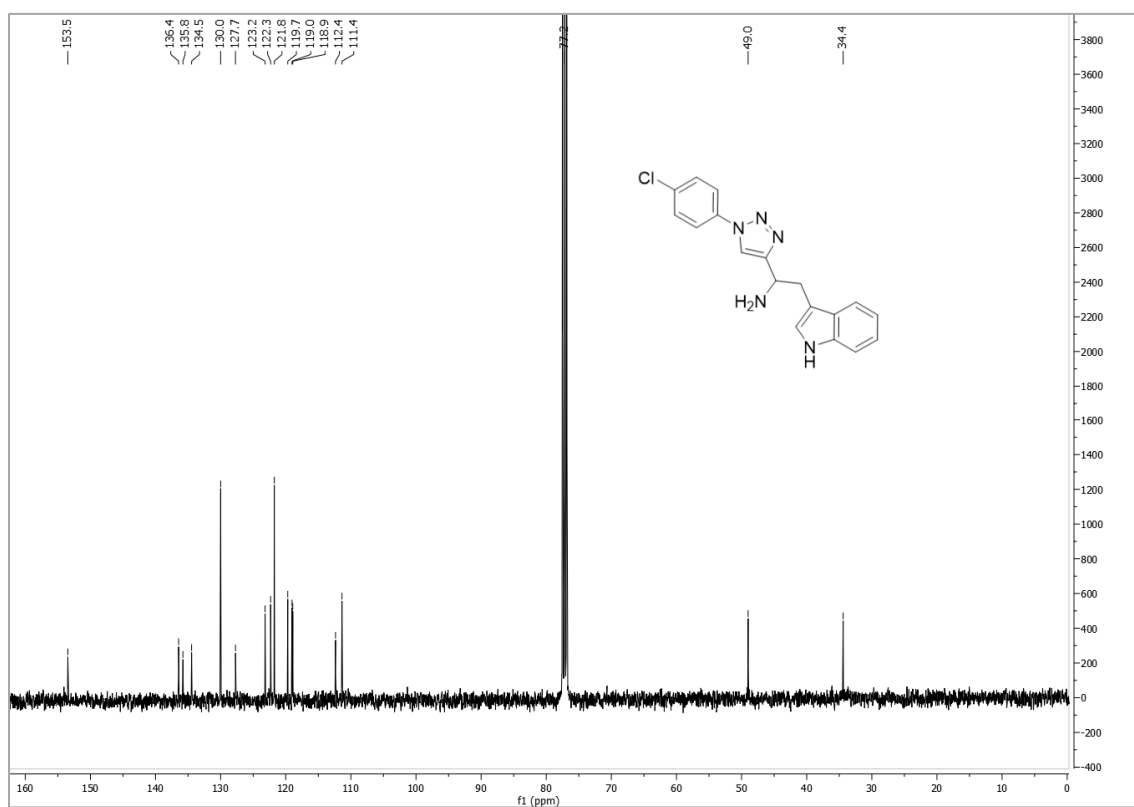


Figure S2. ¹³C NMR spectrum of amine **11** (100 MHz, CDCl₃).

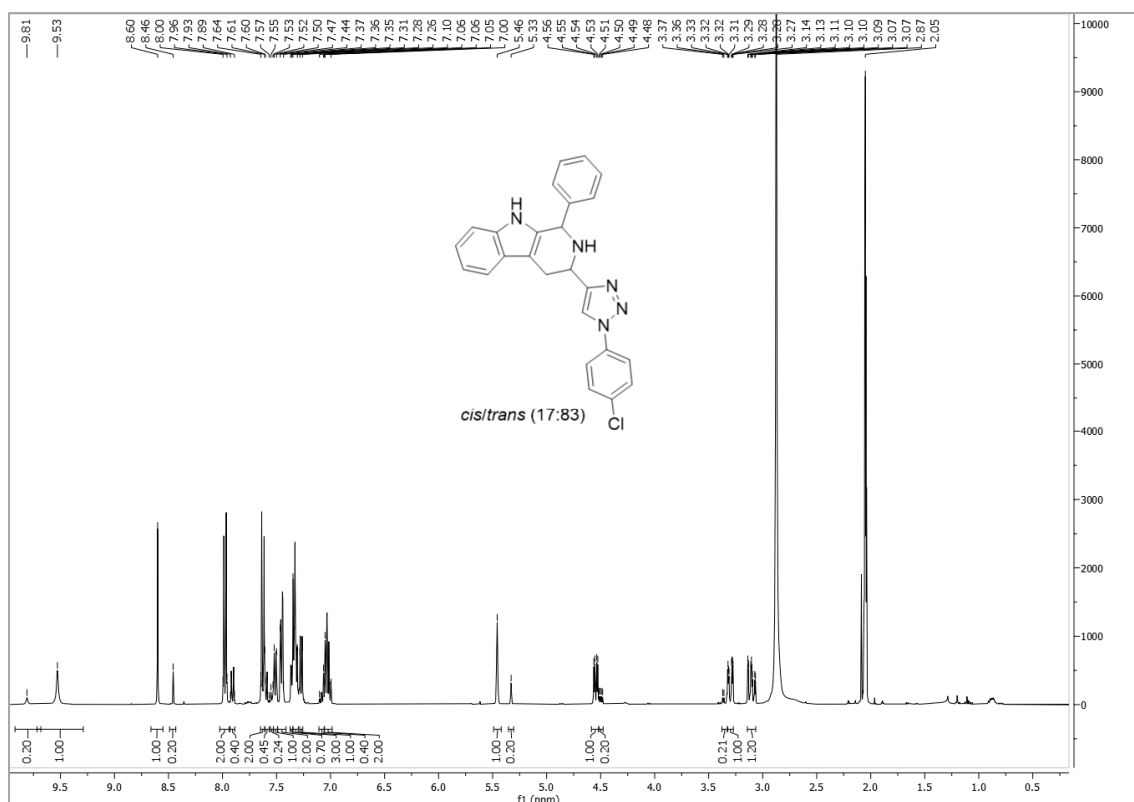


Figure S3. ^1H NMR spectrum of compounds **12a** (400 MHz, Acetone- d_6).

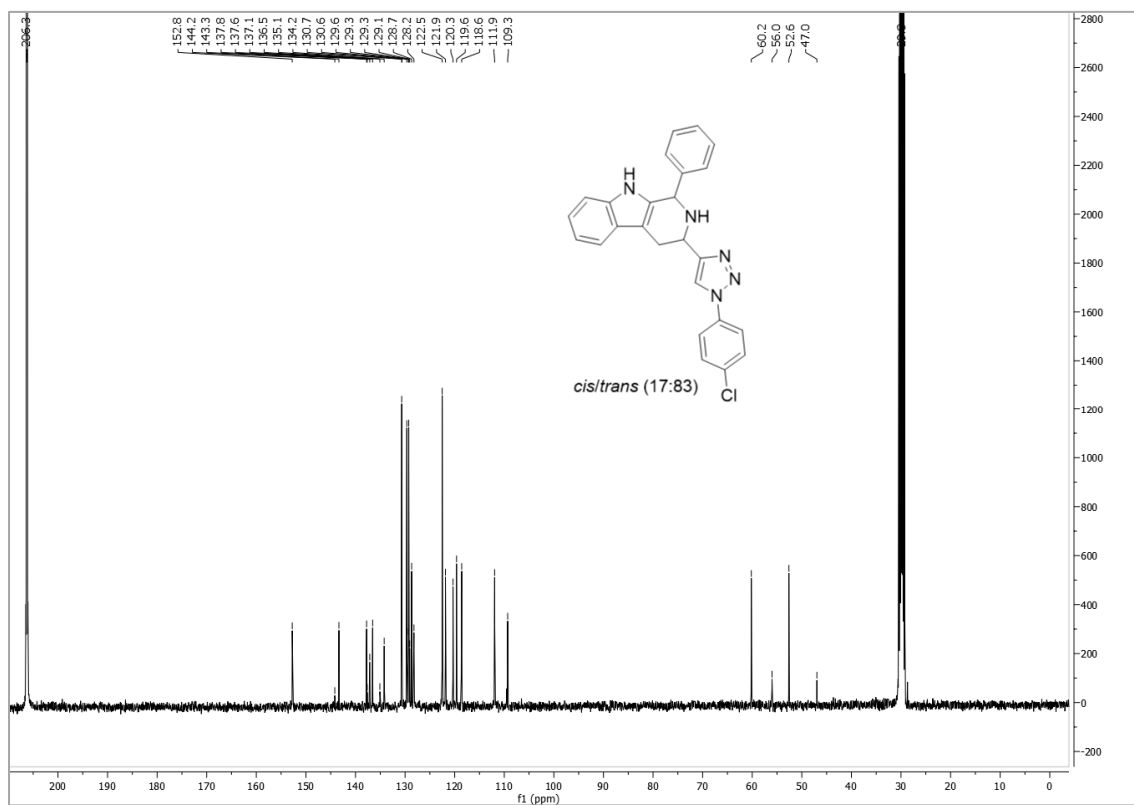


Figure S4. ^{13}C NMR spectrum of compounds **12a** (100 MHz, Acetone- d_6).

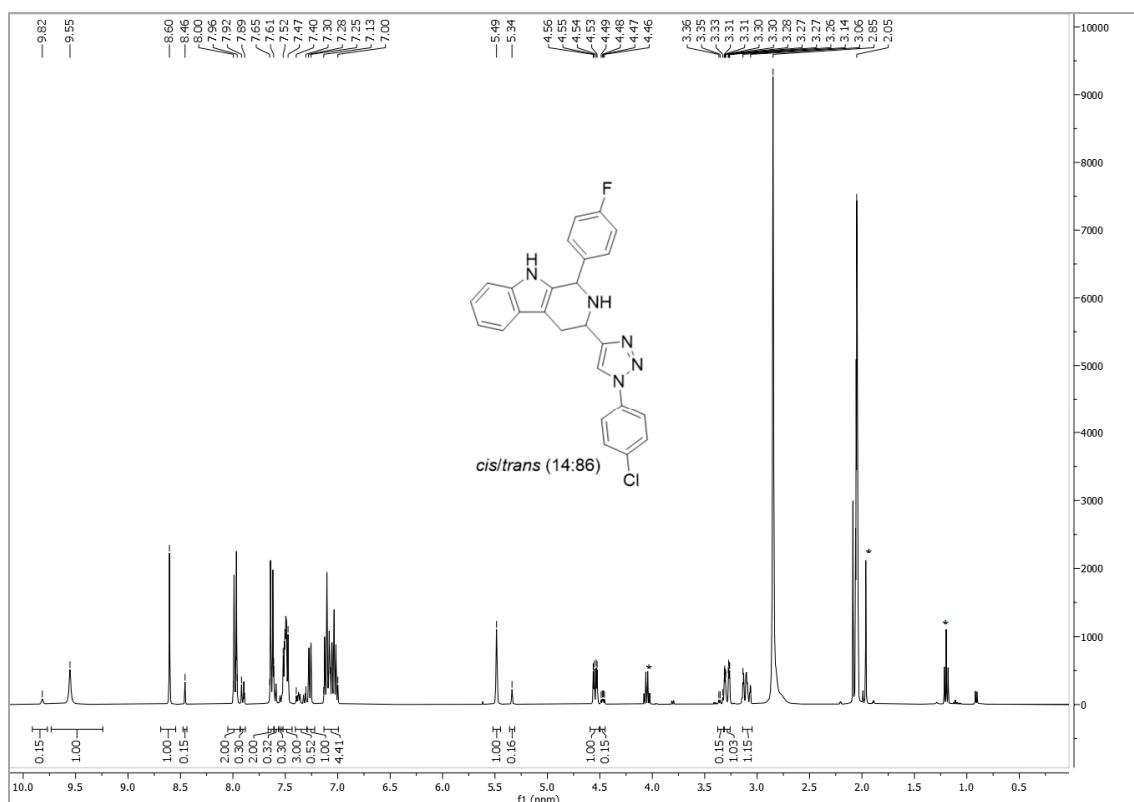


Figure S5. ¹H NMR spectrum of compounds **12b** (400 MHz, Acetone-*d*₆). *Solvent (EtOAc).

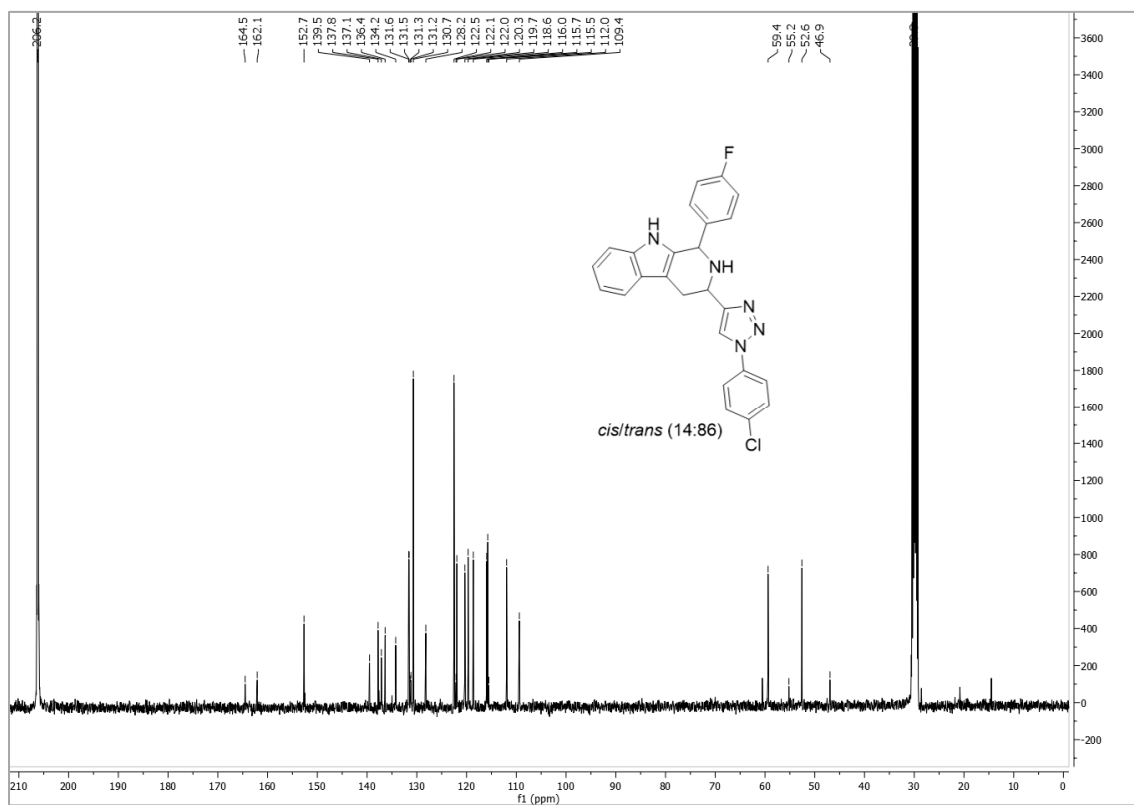


Figure S6. ¹³C NMR spectrum of compounds **12b** (100 MHz, Acetone-*d*₆).

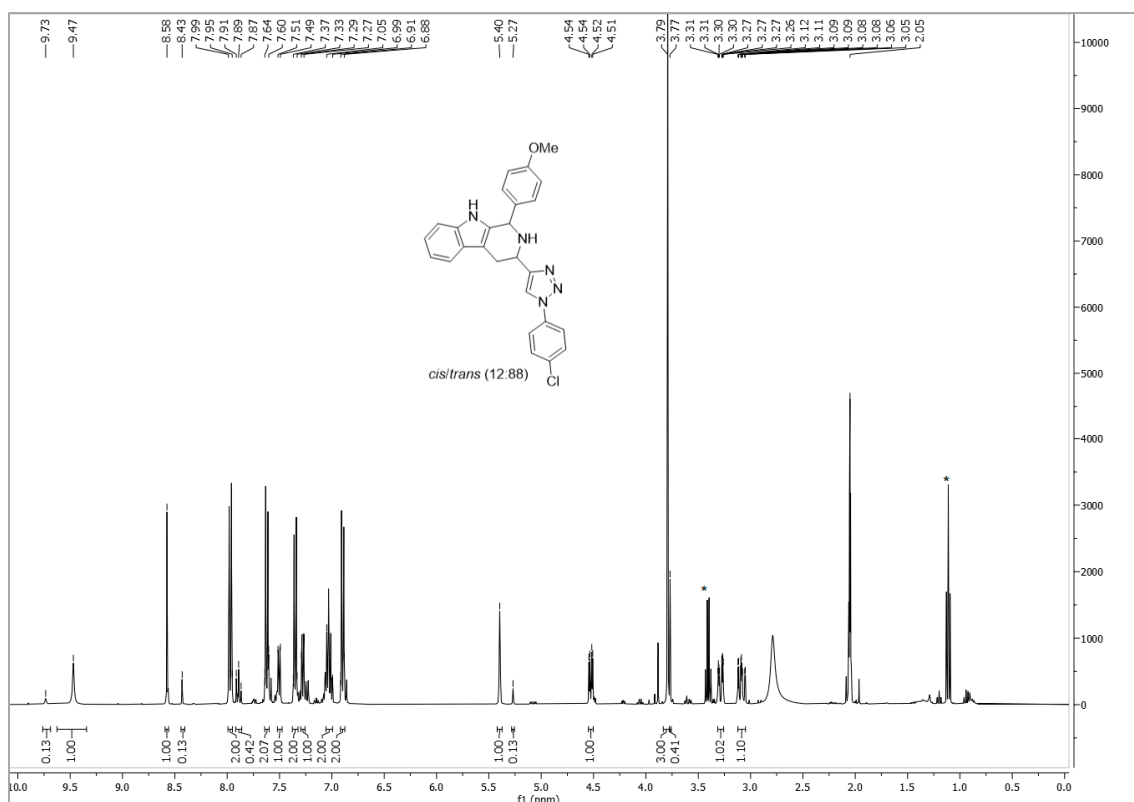


Figure S7. ¹H NMR spectrum of compounds **12c** (400 MHz, Acetone-*d*₆). *Solvent (Et₂O).

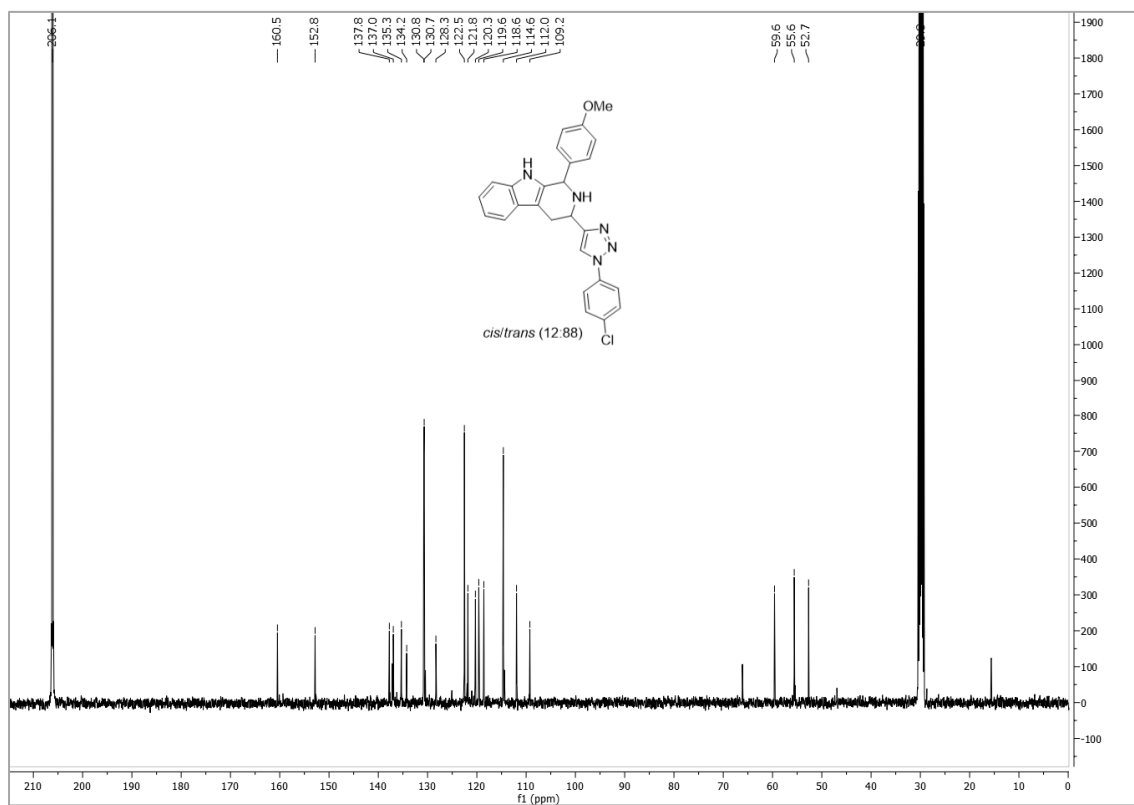


Figure S8. ¹³C NMR spectrum of compounds **12c** (100 MHz, Acetone-*d*₆).

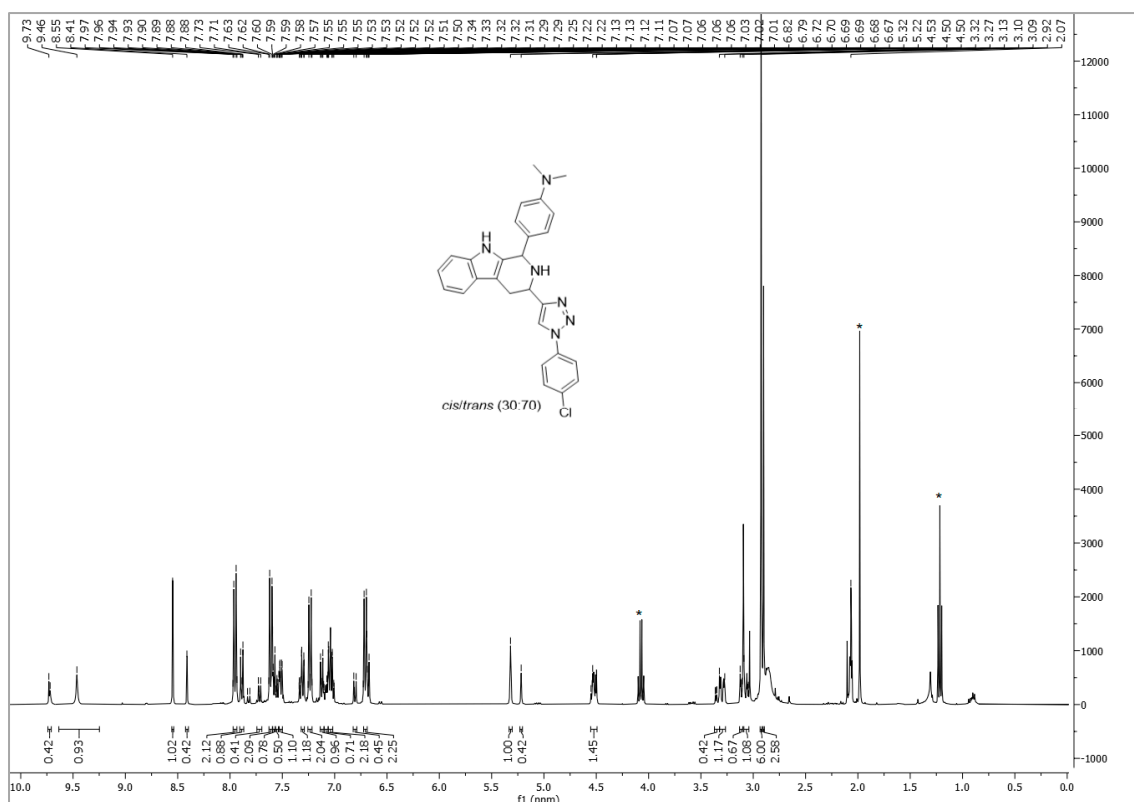


Figure S9. ¹H NMR spectrum of compounds **12d** (400 MHz, Acetone-*d*₆). *Solvent (EtOAc).

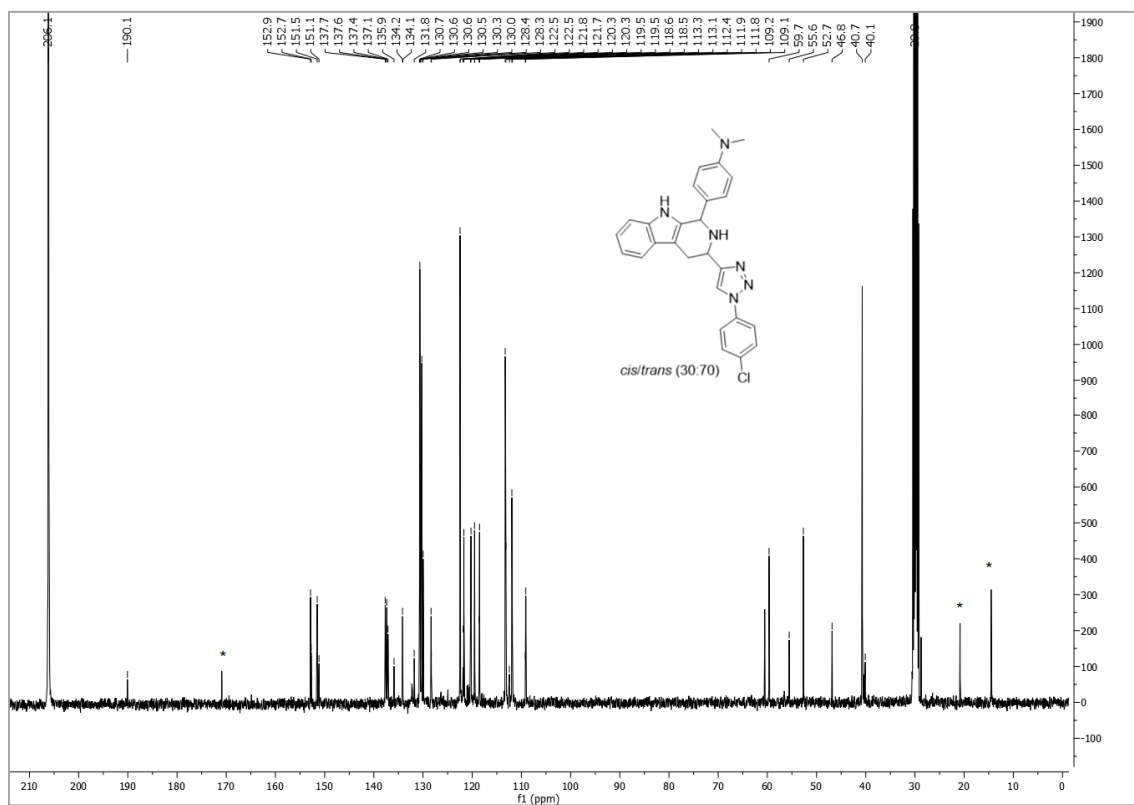


Figure S10. ¹³C NMR spectrum of compounds **12d** (100 MHz, Acetone-*d*₆). *Solvent (EtOAc).

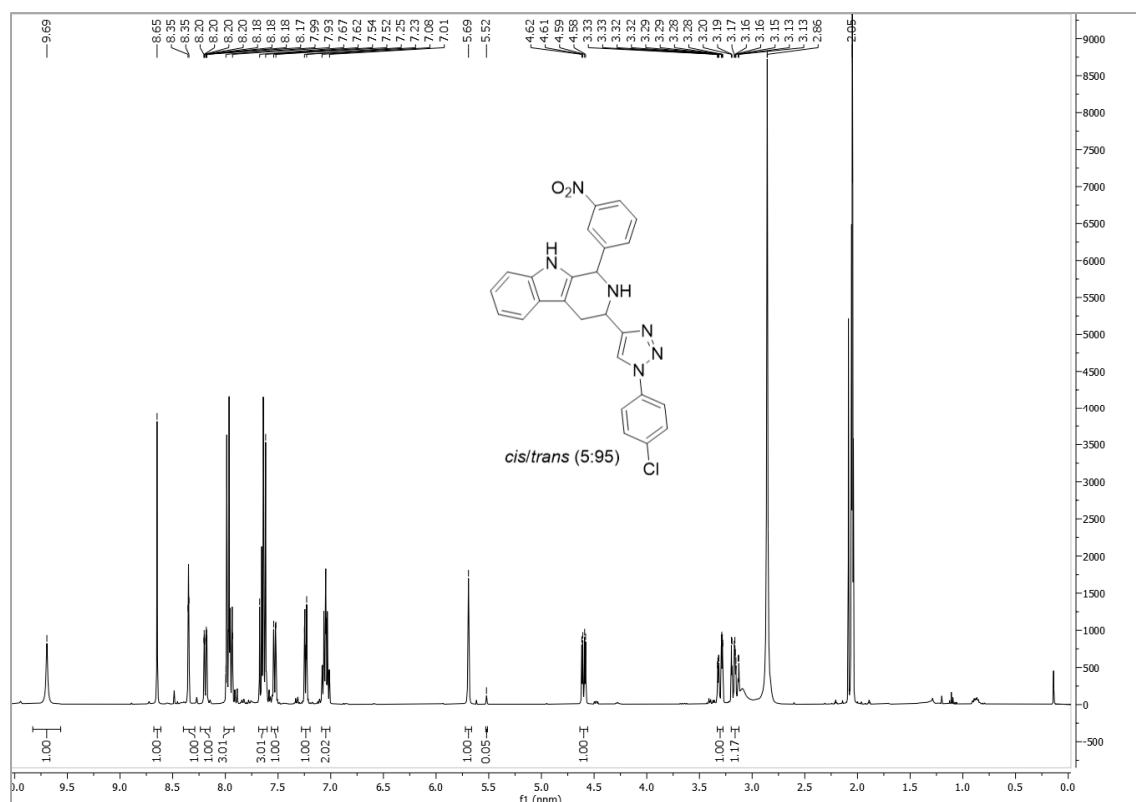


Figure S11. ¹H NMR spectrum of compounds **12e** (400 MHz, Acetone-*d*₆).

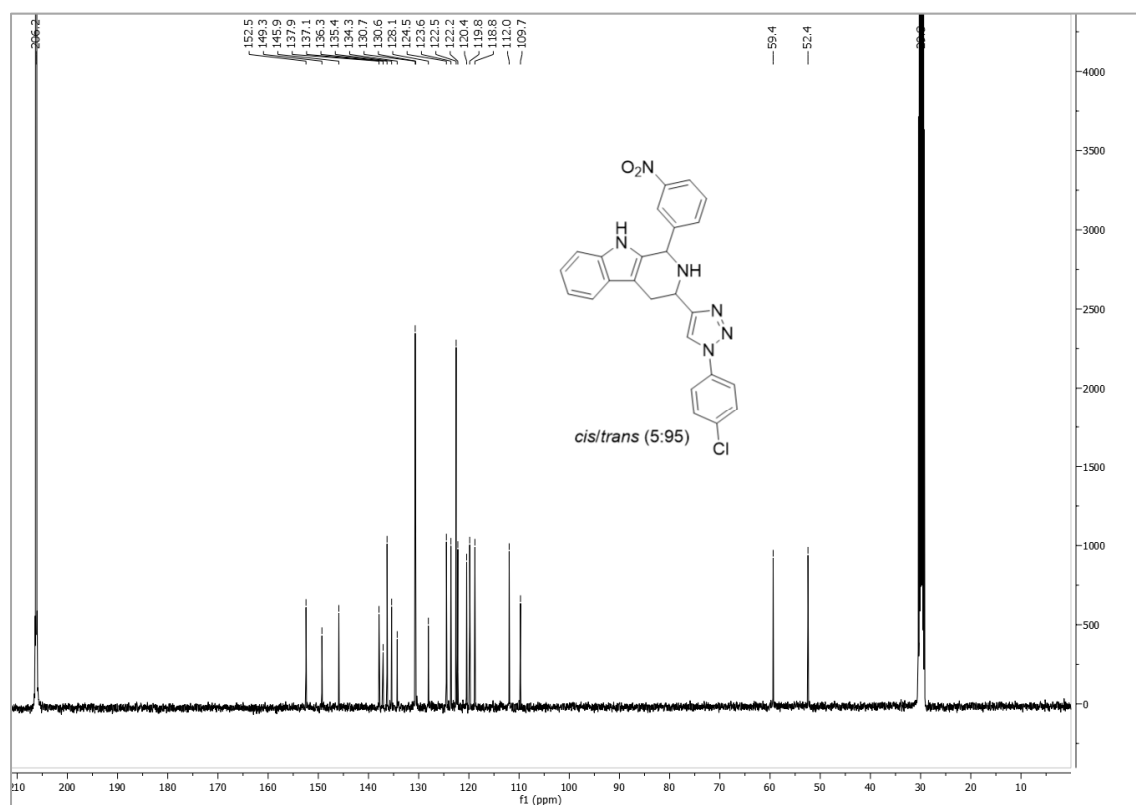


Figure S12. ¹³C NMR spectrum of compounds **12e** (100 MHz, Acetone-*d*₆).

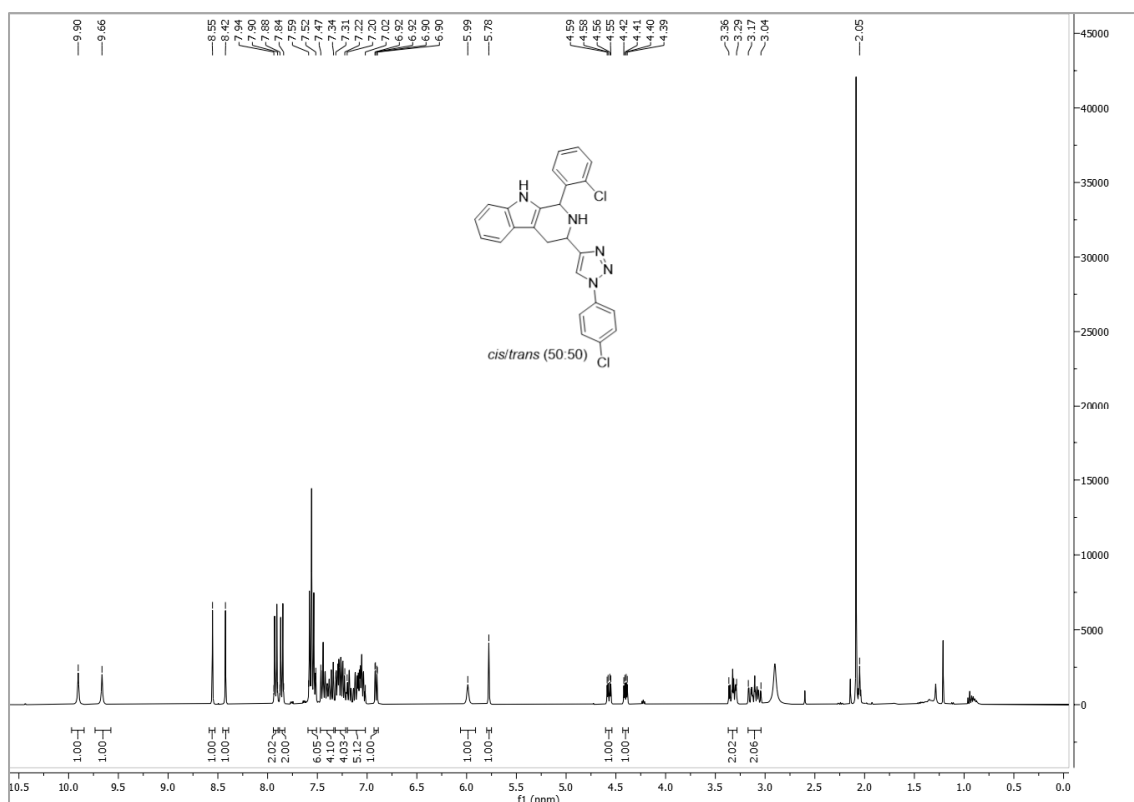


Figure S13. ¹H NMR spectrum of compounds **12f** (400 MHz, Acetone-*d*₆).

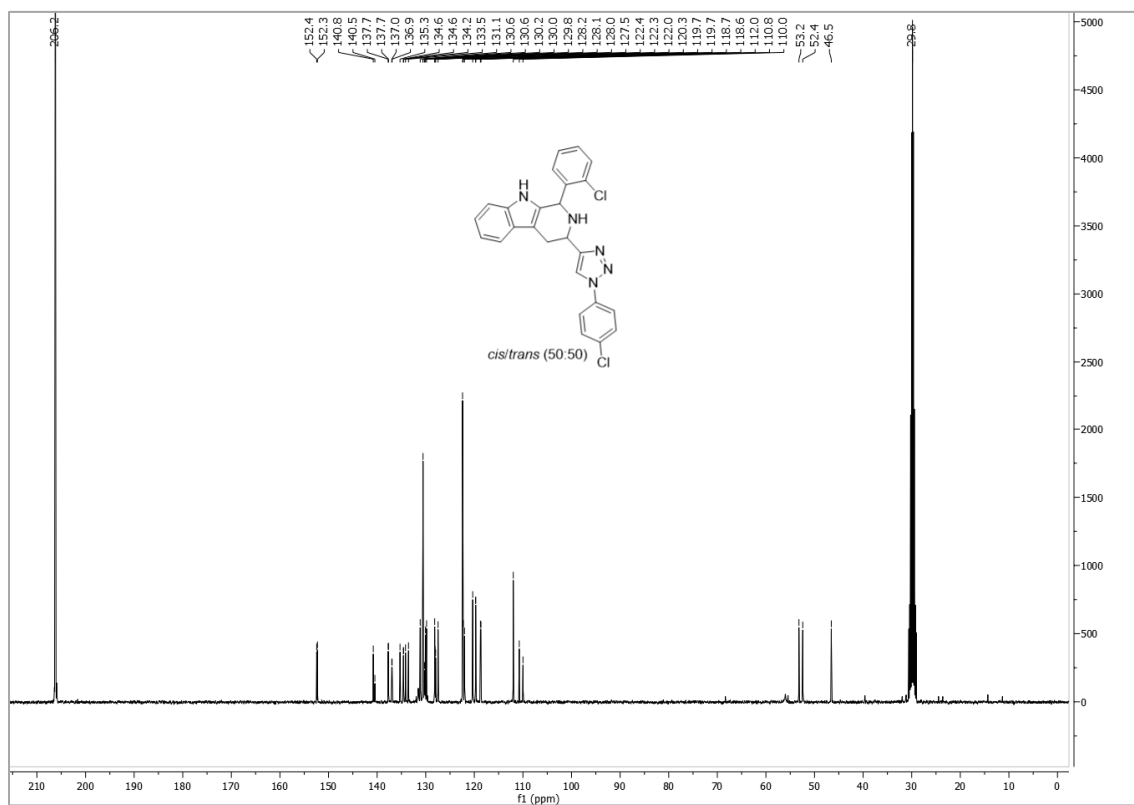


Figure S14. ¹³C NMR spectrum of compounds **12f** (100 MHz, Acetone-*d*₆).

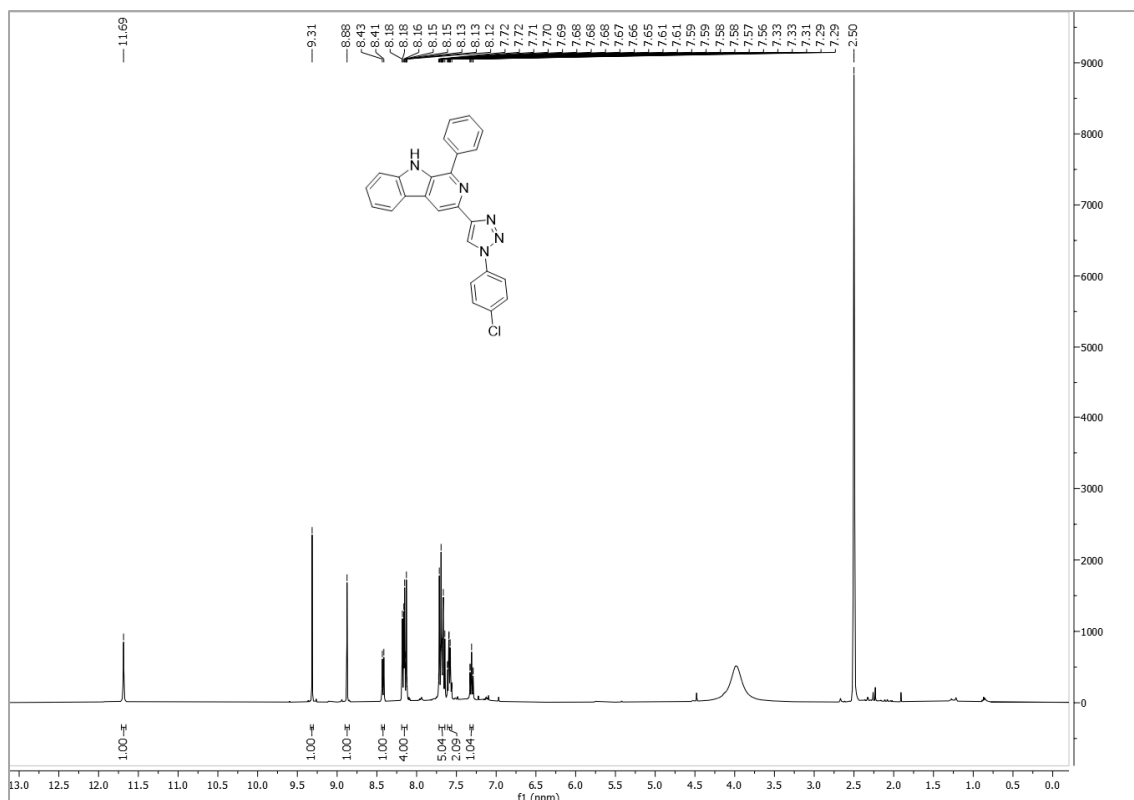


Figure S15. ¹H NMR spectrum of compounds **13a** (400 MHz, DMSO-*d*₆).

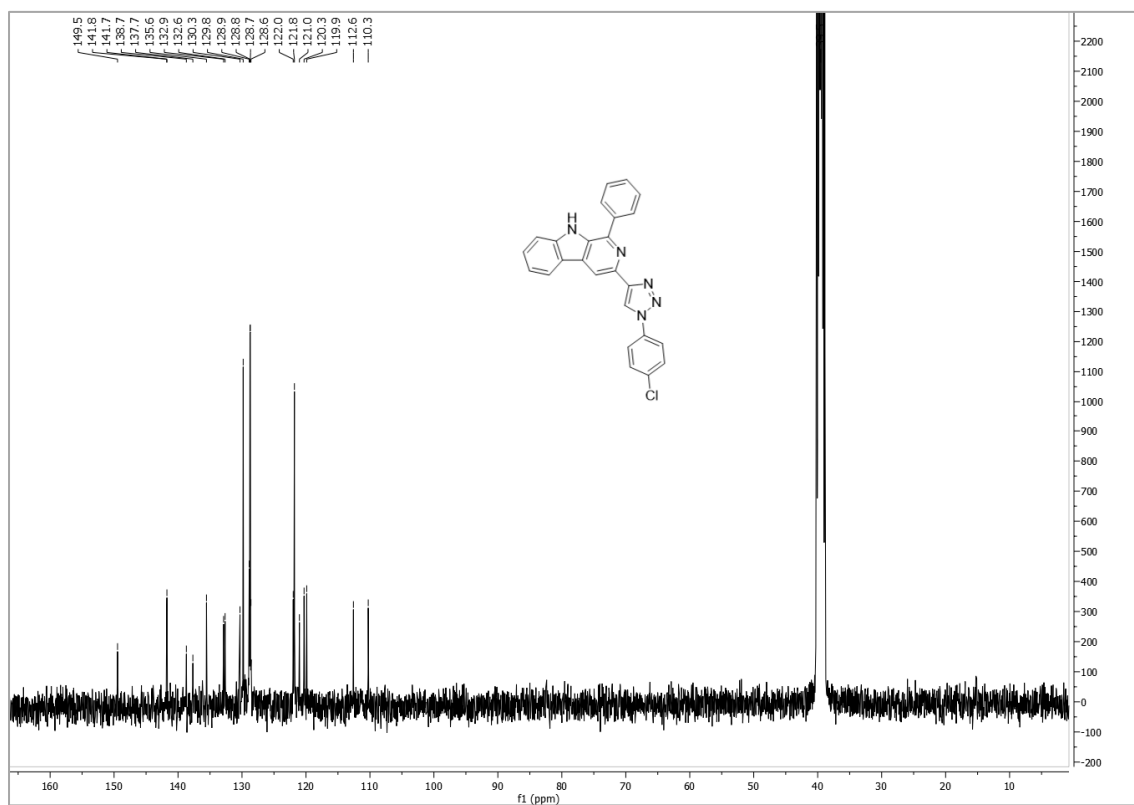


Figure S16. ¹³C NMR spectrum of compounds **13a** (100 MHz, DMSO-*d*₆).

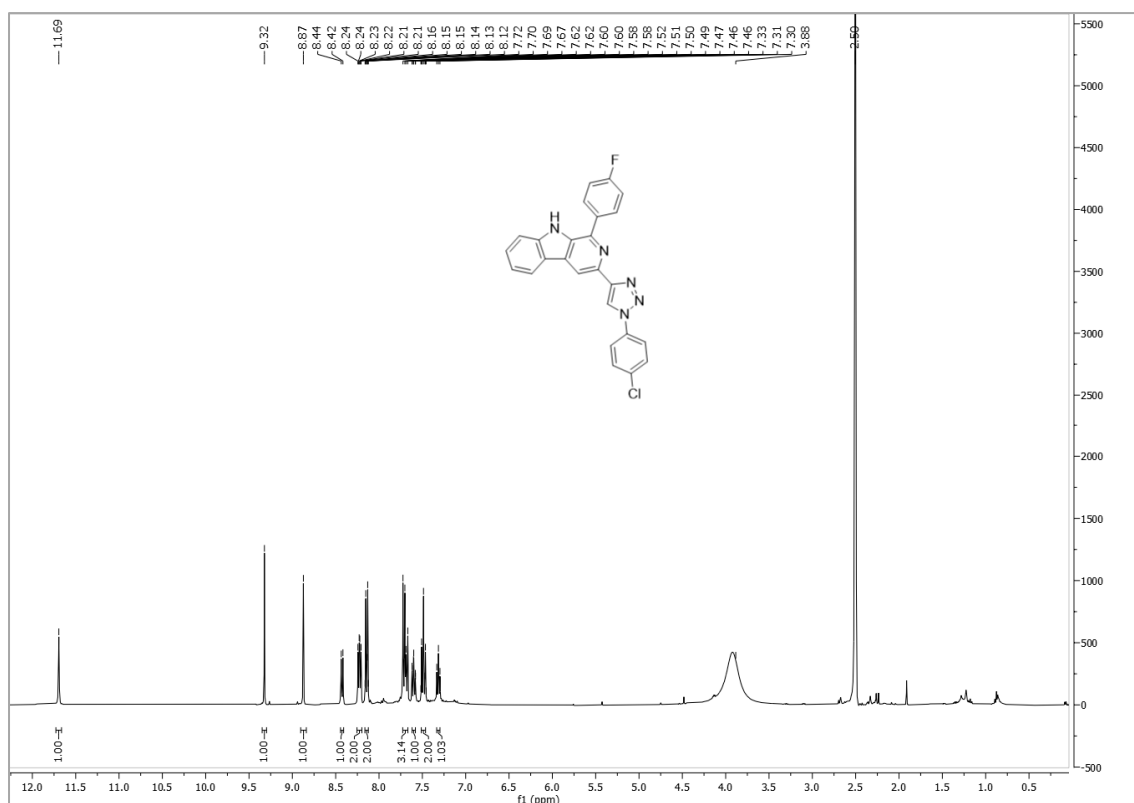


Figure S17. ¹H NMR spectrum of compounds **13b** (400 MHz, DMSO-*d*₆).

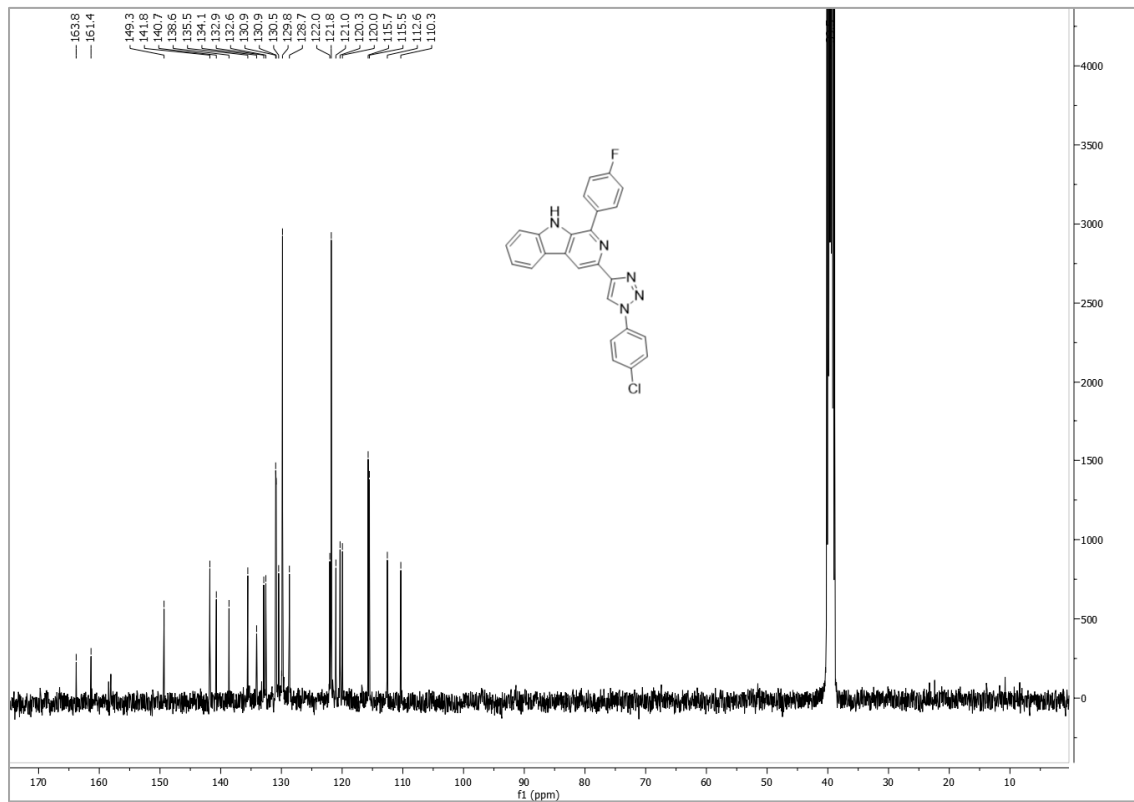
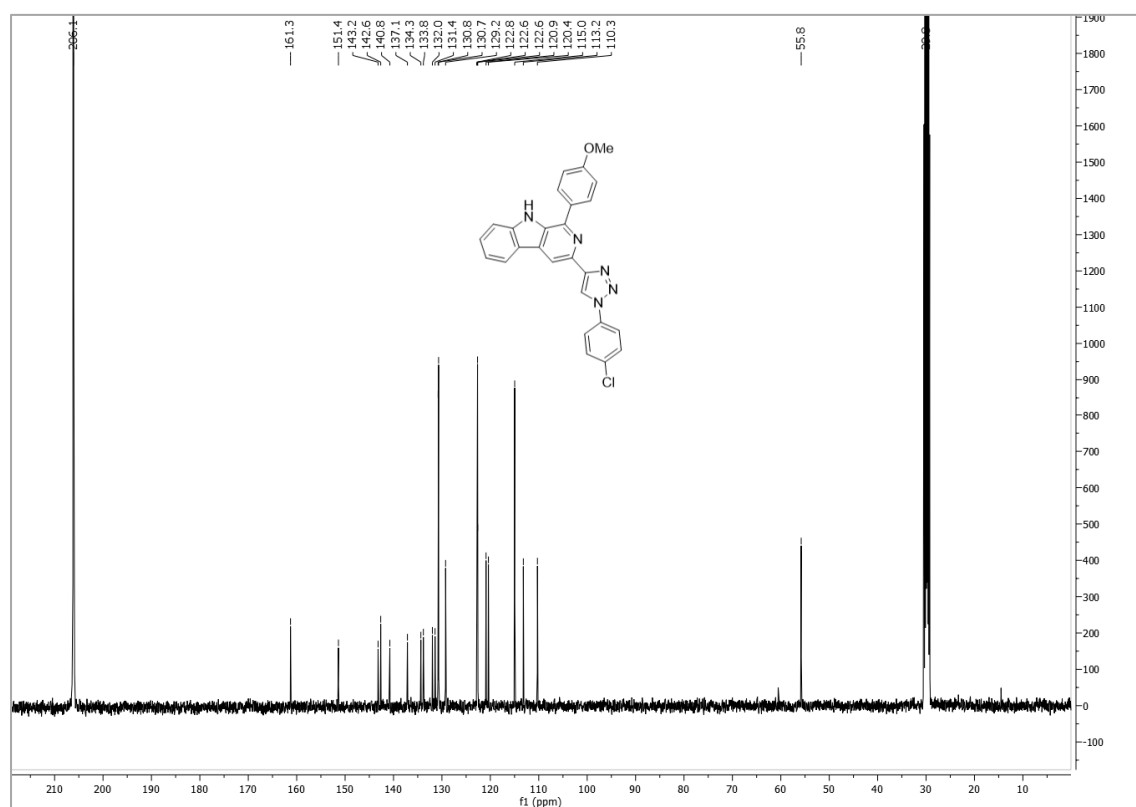
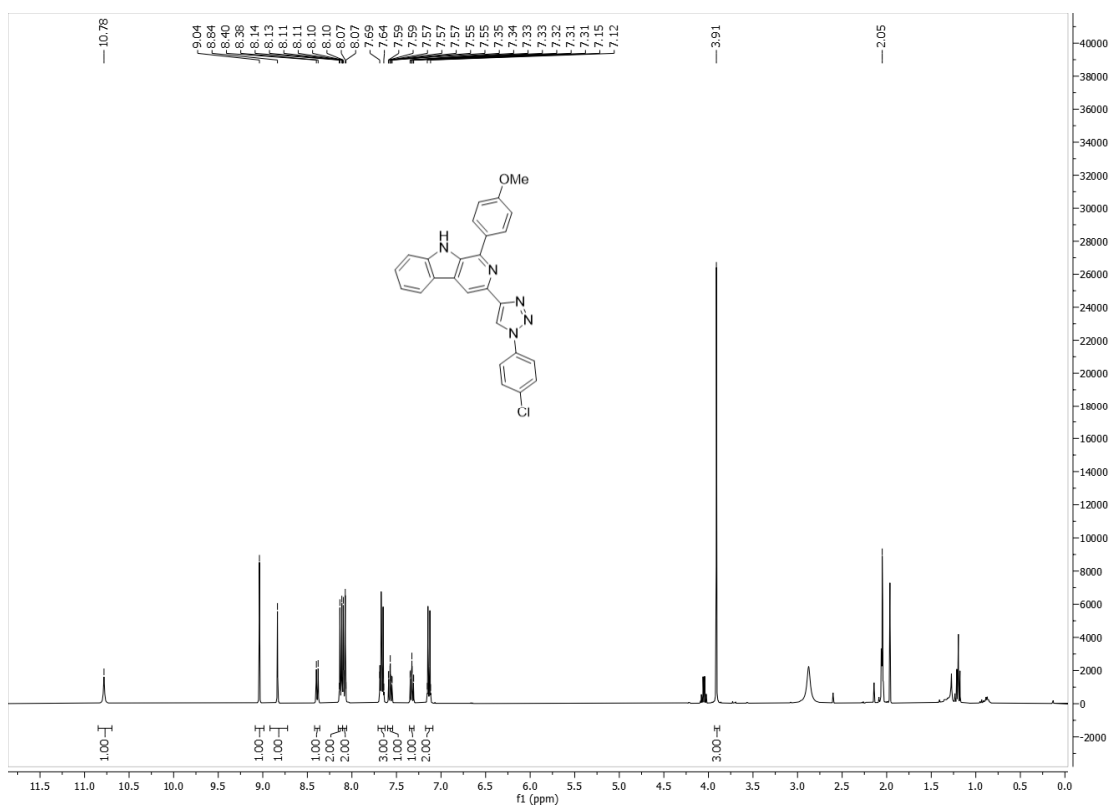


Figure S18. ¹³C NMR spectrum of compounds **13b** (100 MHz, DMSO-*d*₆).



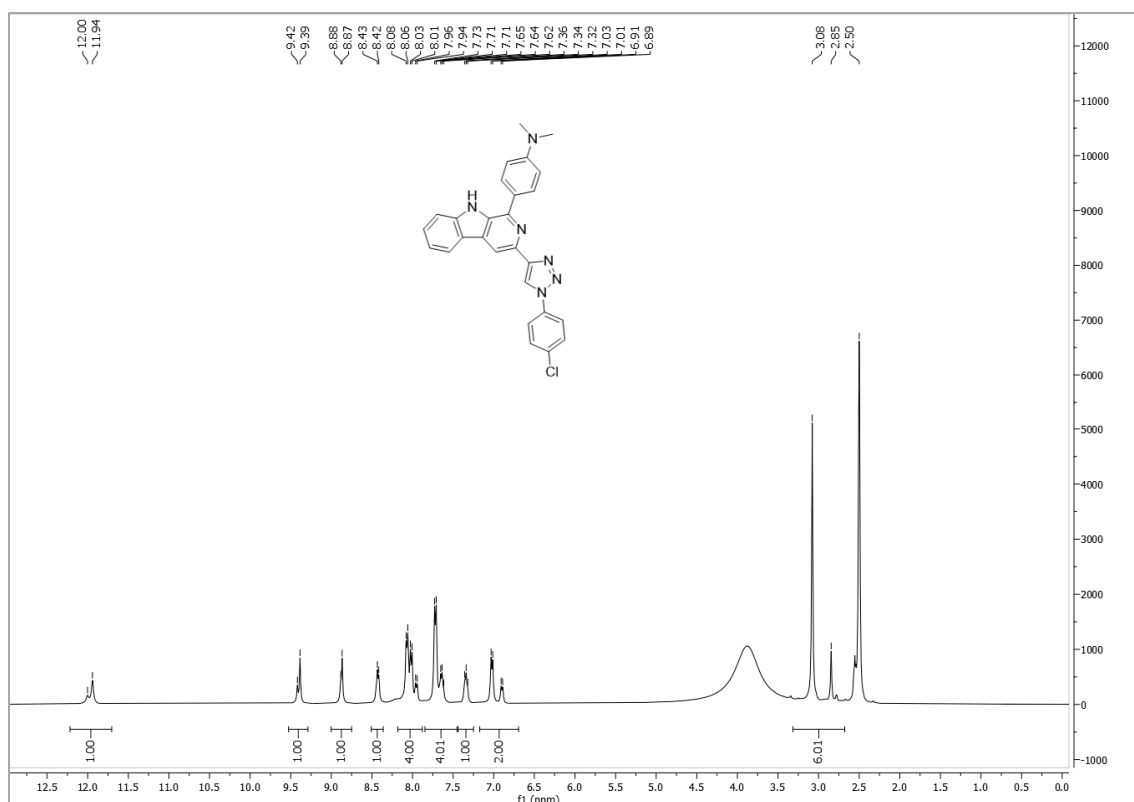


Figure S21. ¹H NMR spectrum of compounds **13d** (400 MHz, DMSO-*d*₆).

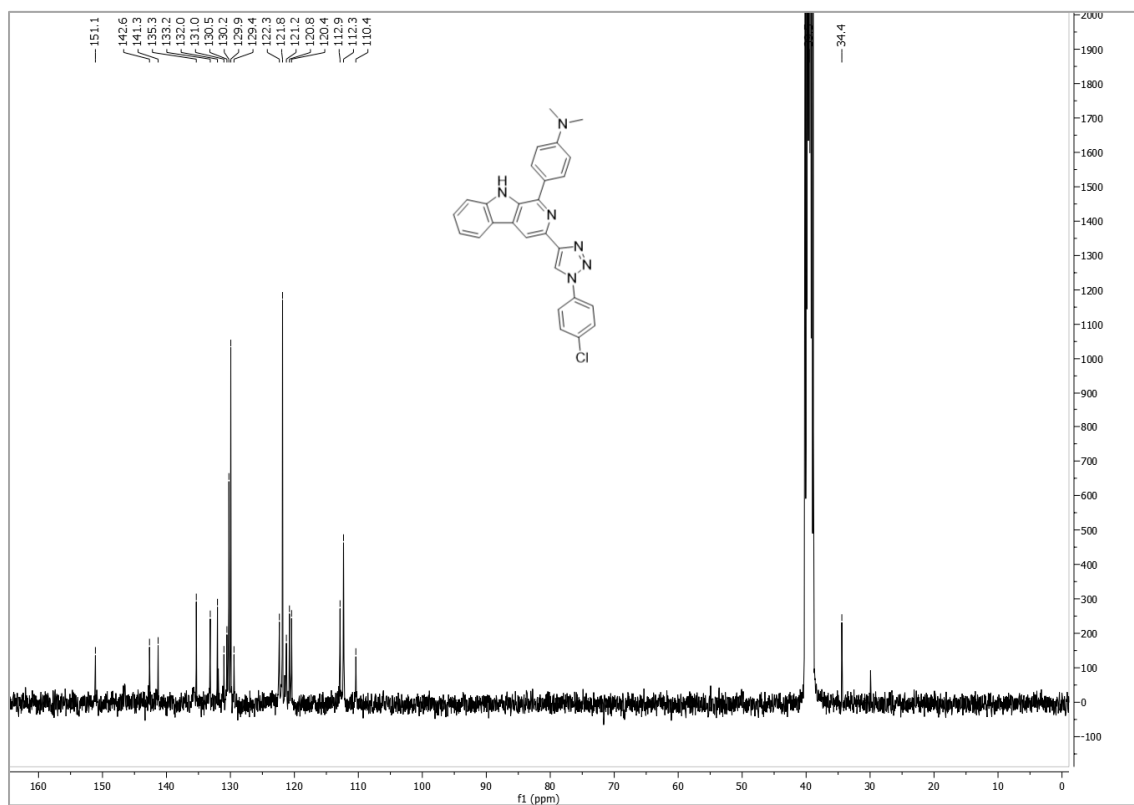


Figure S22. ¹³C NMR spectrum of compounds **13d** (400 MHz, DMSO-*d*₆).

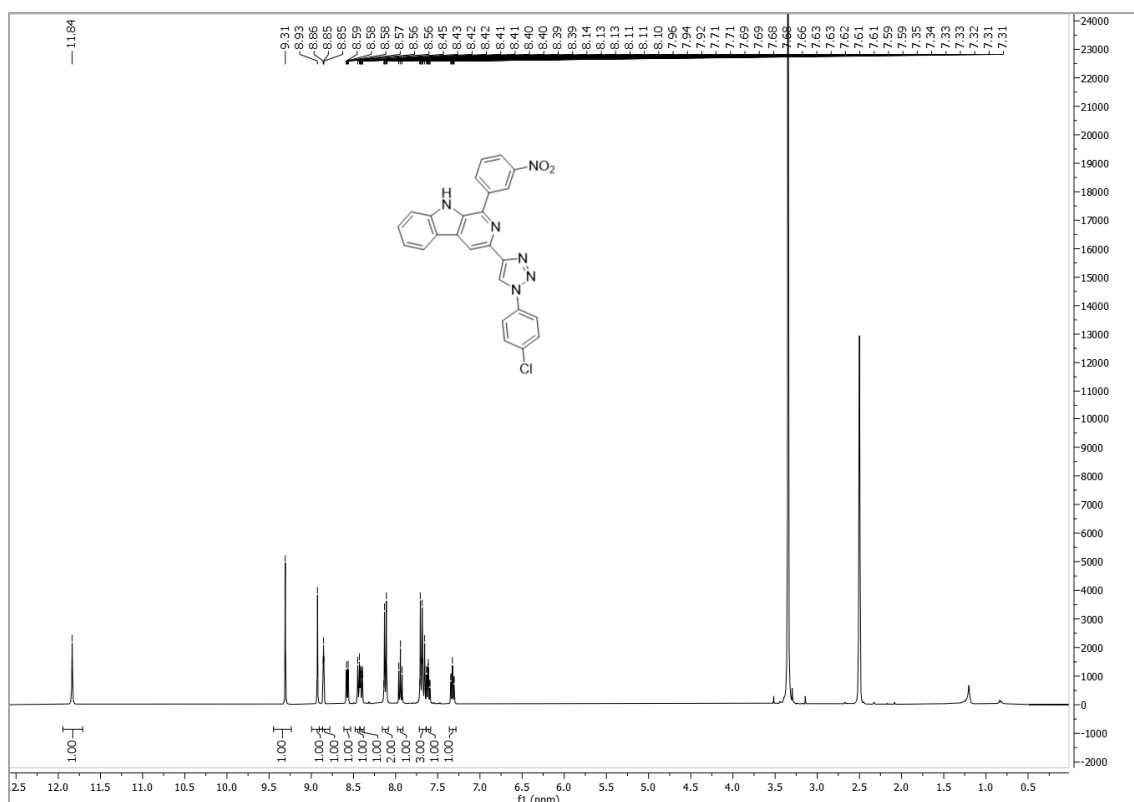


Figure S23. ¹H NMR spectrum of compounds **13e** (400 MHz, DMSO-*d*₆).

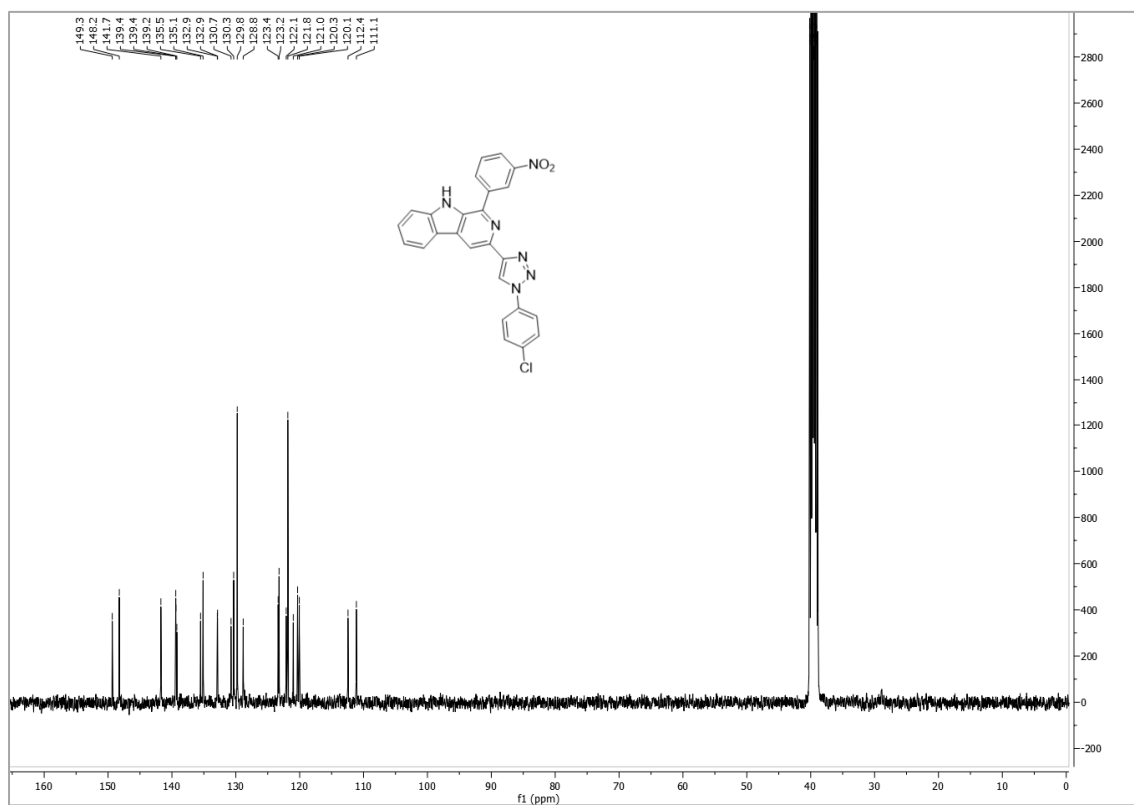


Figure S24. ¹³C NMR spectrum of compounds **13e** (100 MHz, DMSO-*d*₆).

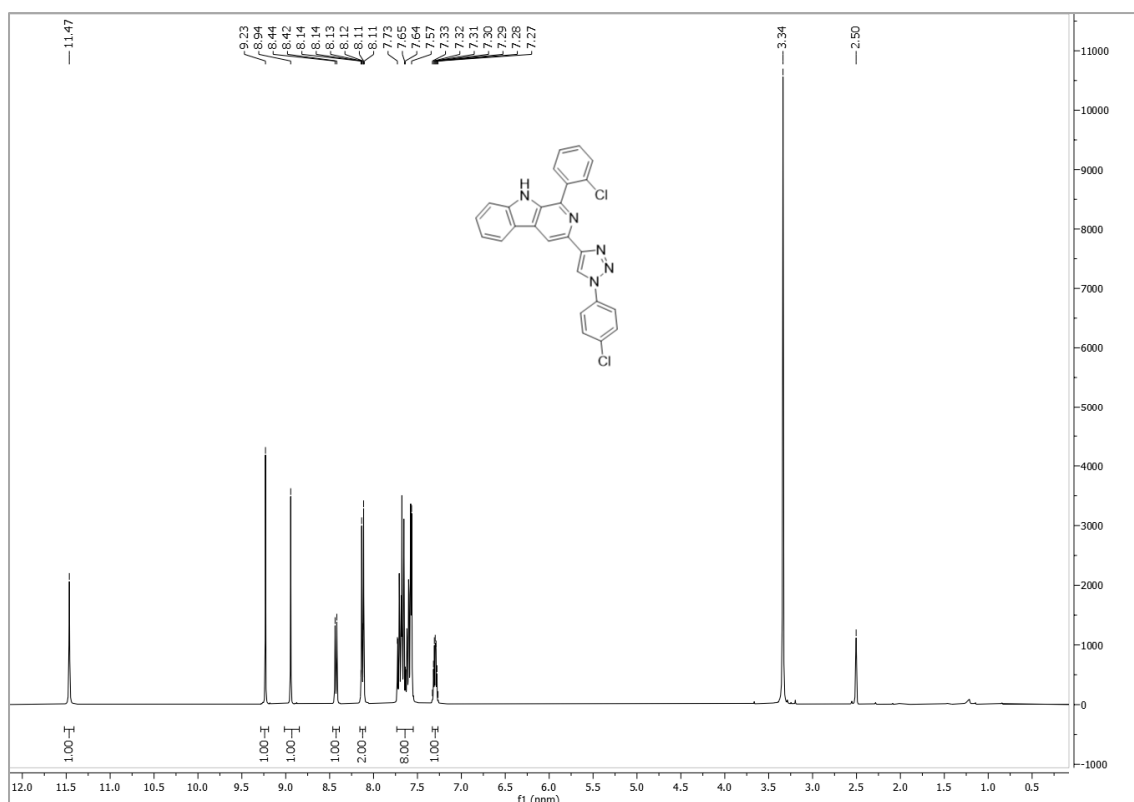


Figure S25. ¹H NMR spectrum of compounds **13f** (400 MHz, DMSO-*d*₆).

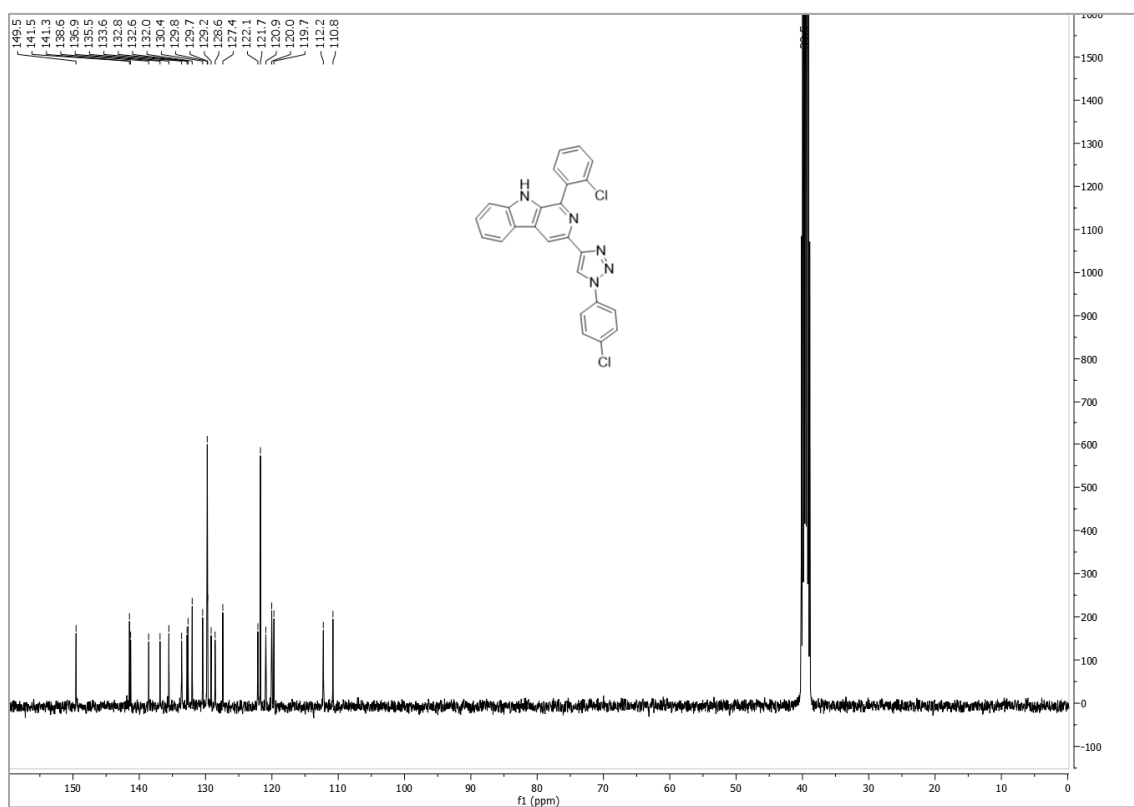


Figure S26. ¹³C NMR spectrum of compounds **13f** (100 MHz, DMSO-*d*₆).