



Supporting Information

for

Glycosylated coumarins, flavonoids, lignans and phenylpropanoids from *Wikstroemia nutans* and their biological activities

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NMR, MS, UV, IR spectra and HPLC chromatogram of derivative 1

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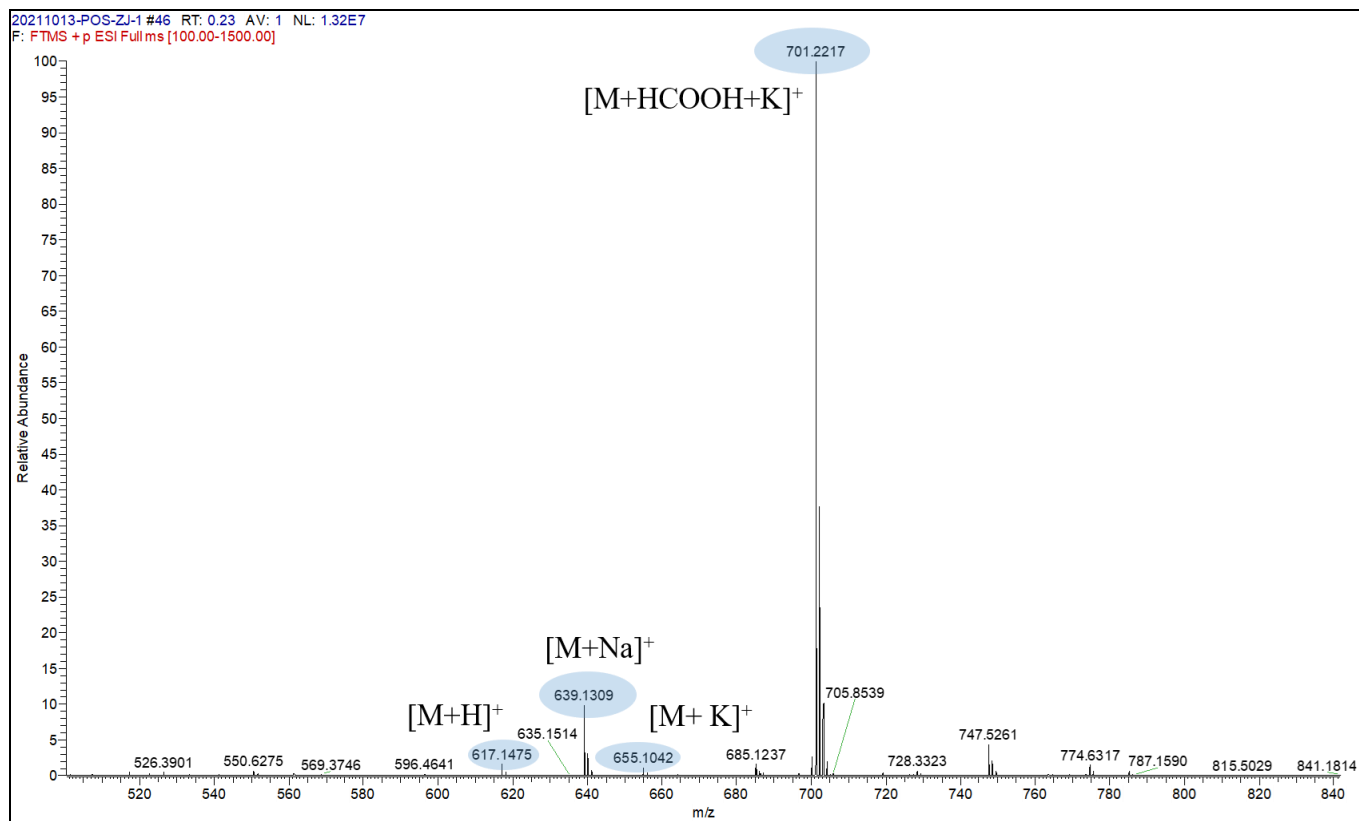
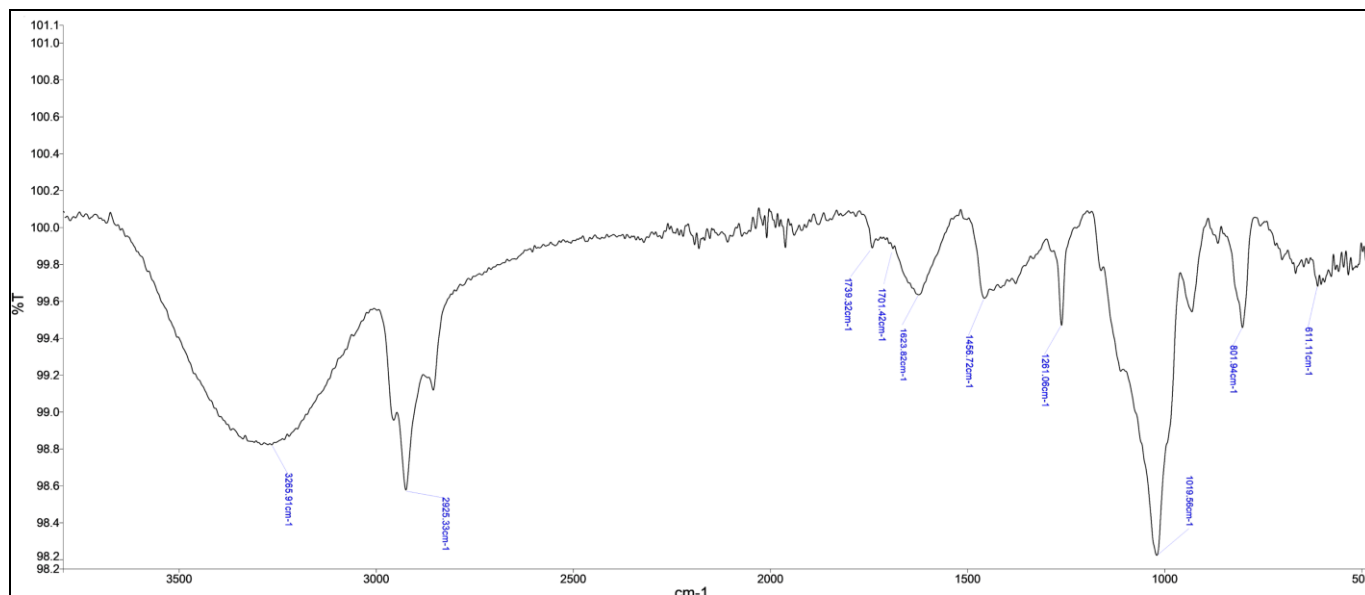


Figure S1. HR-ESIMS spectrum of compound **1**



IR spectra were obtained on PerkinElmer FT-IR C106150 and Bruker Tensor 37 infrared spectrophotometers.

Figure S2. IR spectrum of compound **1** in MeOH.

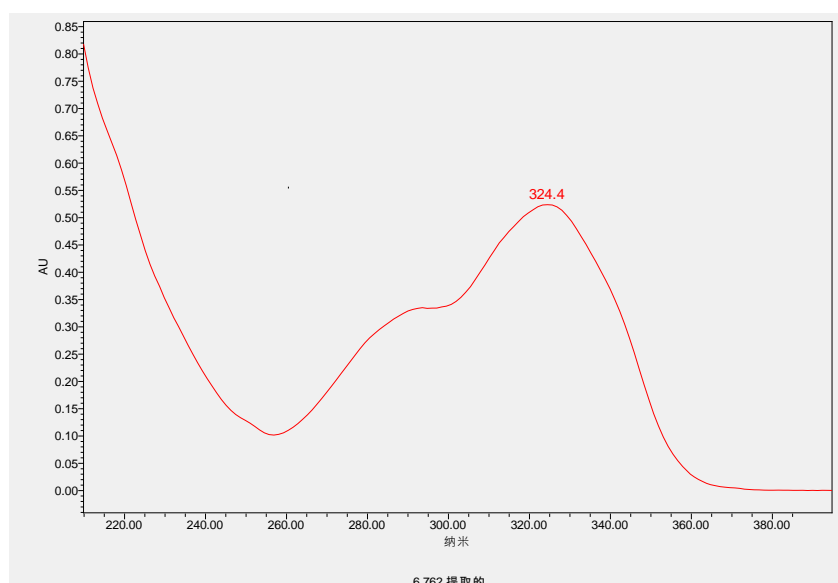


Figure S3. UV spectrum of compound **1** in MeOH.

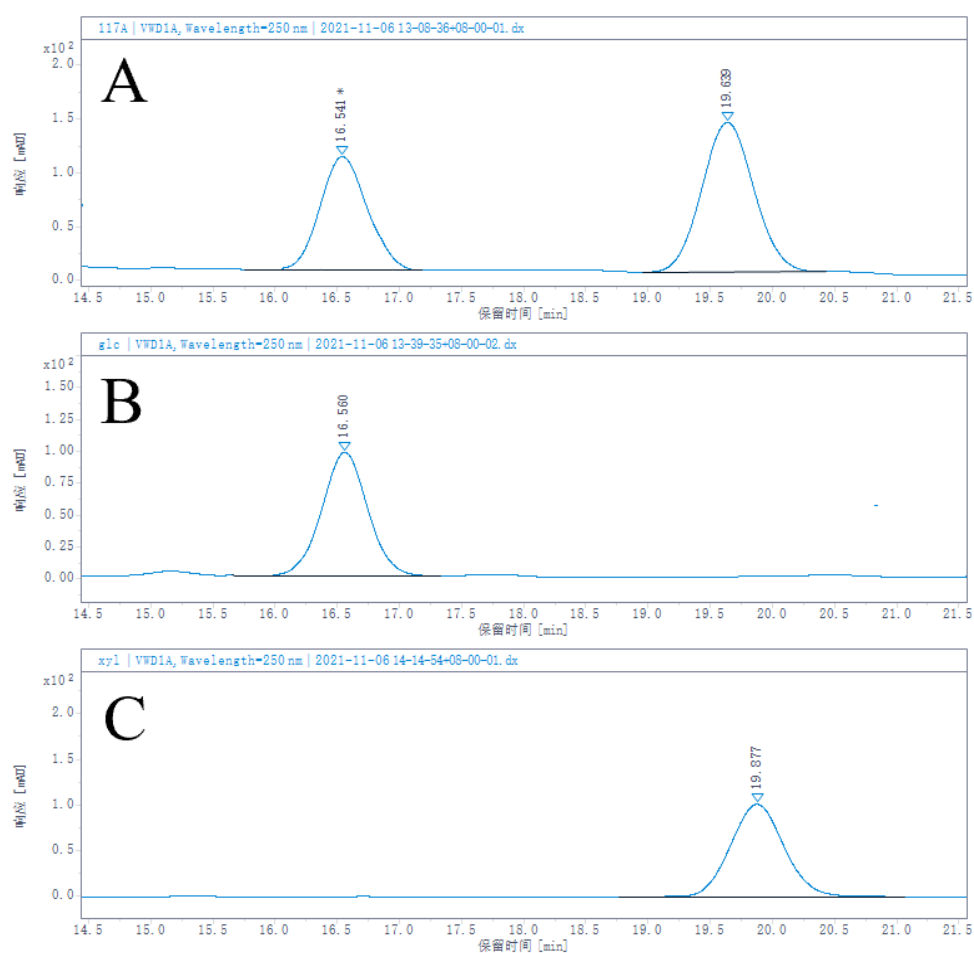


Figure S4. HPLC chromatogram of the wikstronutin (**1**) derivatives.
Retention Times: (A) wikstronutin (**1**) (B) D-glucose (C) D-xylose.

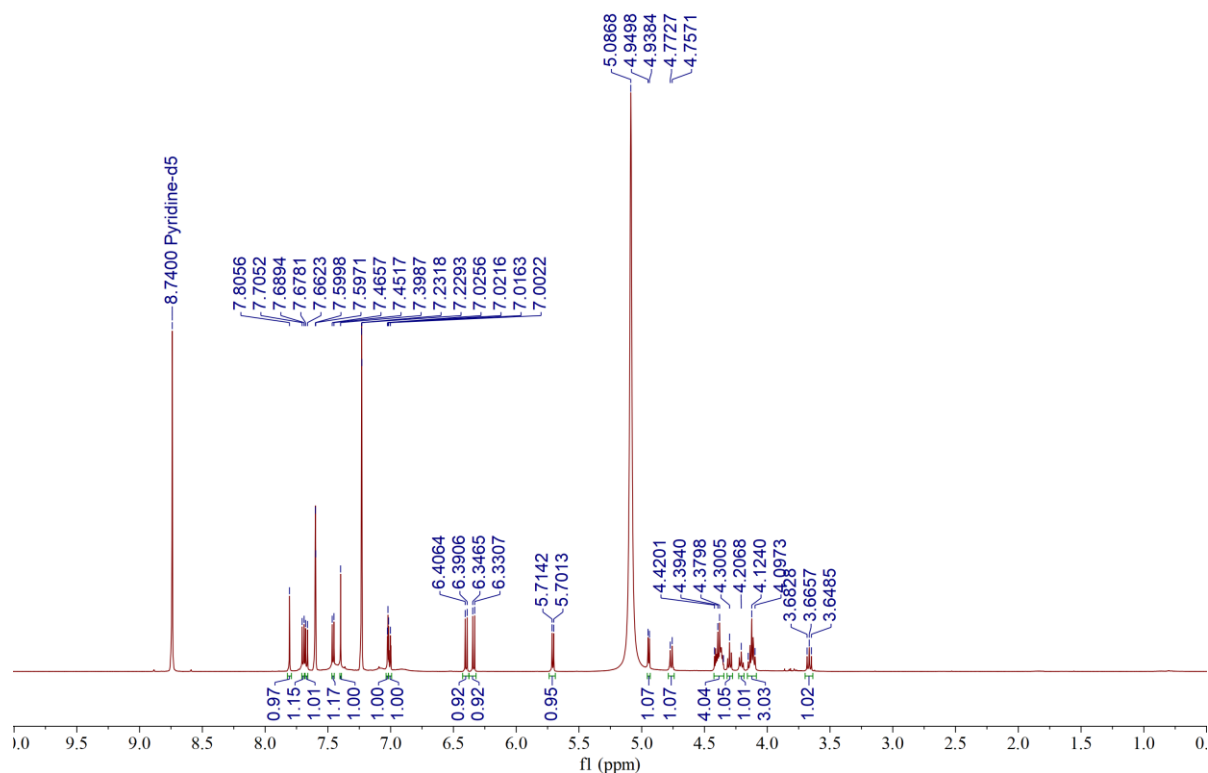


Figure S5. ¹H NMR spectrum of compound **1** (600 MHz, pyridine-*d*₅).

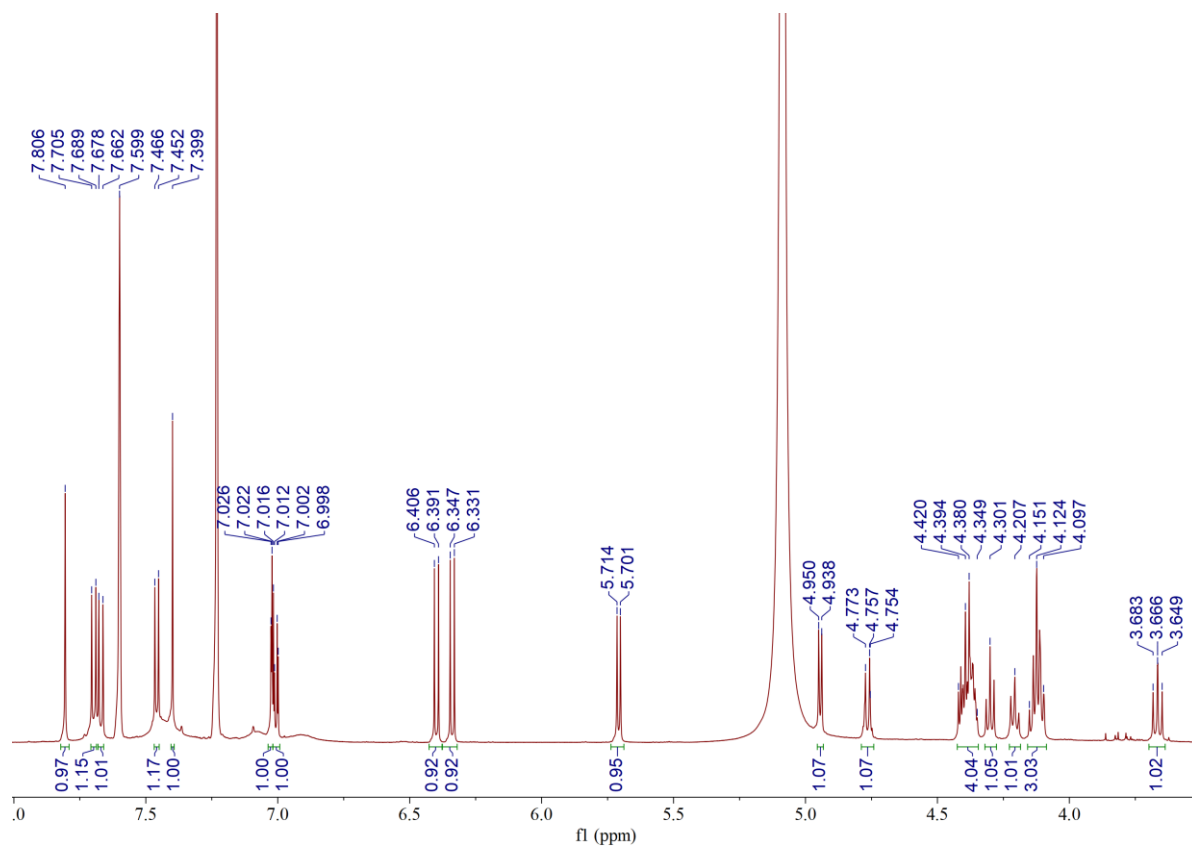


Figure S6. ¹H NMR spectrum of compound **1** (600 MHz, pyridine-*d*₅) (expanded).

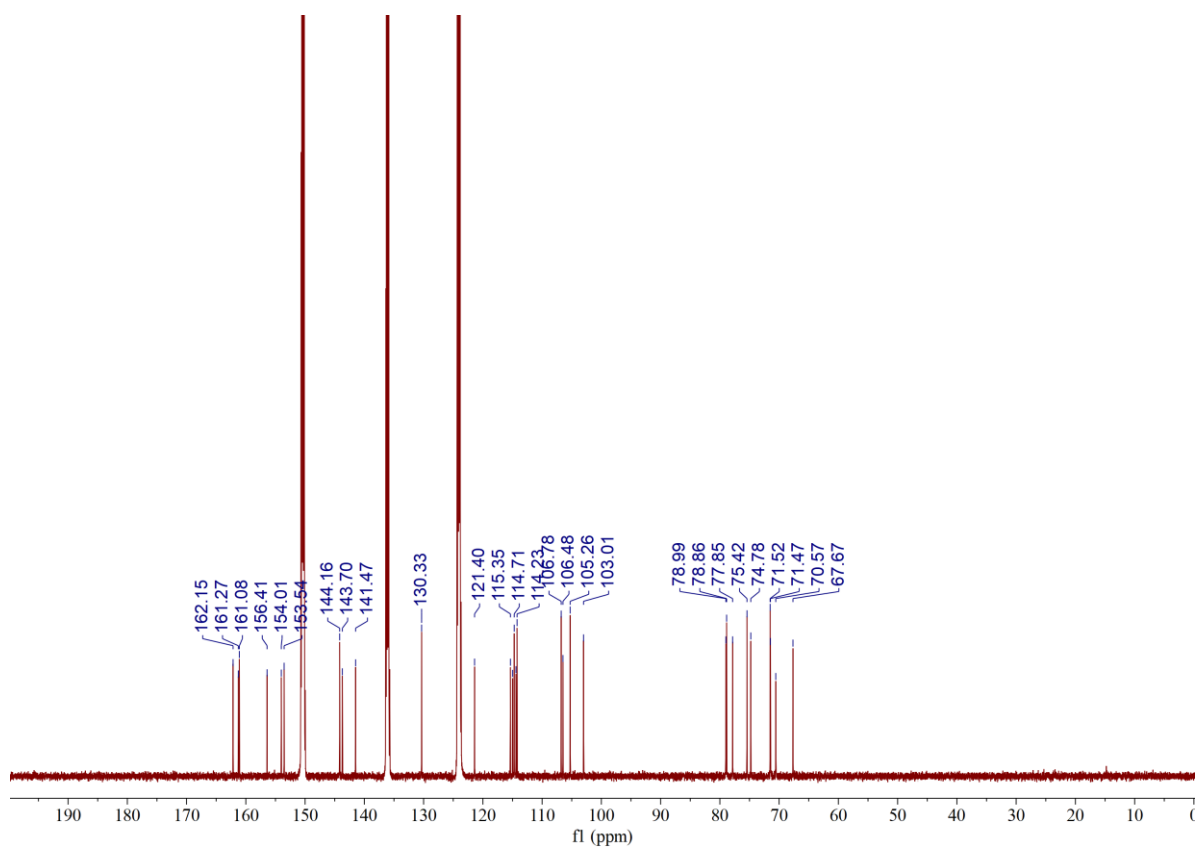


Figure S7. ¹³C NMR spectrum of compound **1** (600 MHz, pyridine-*d*₅).

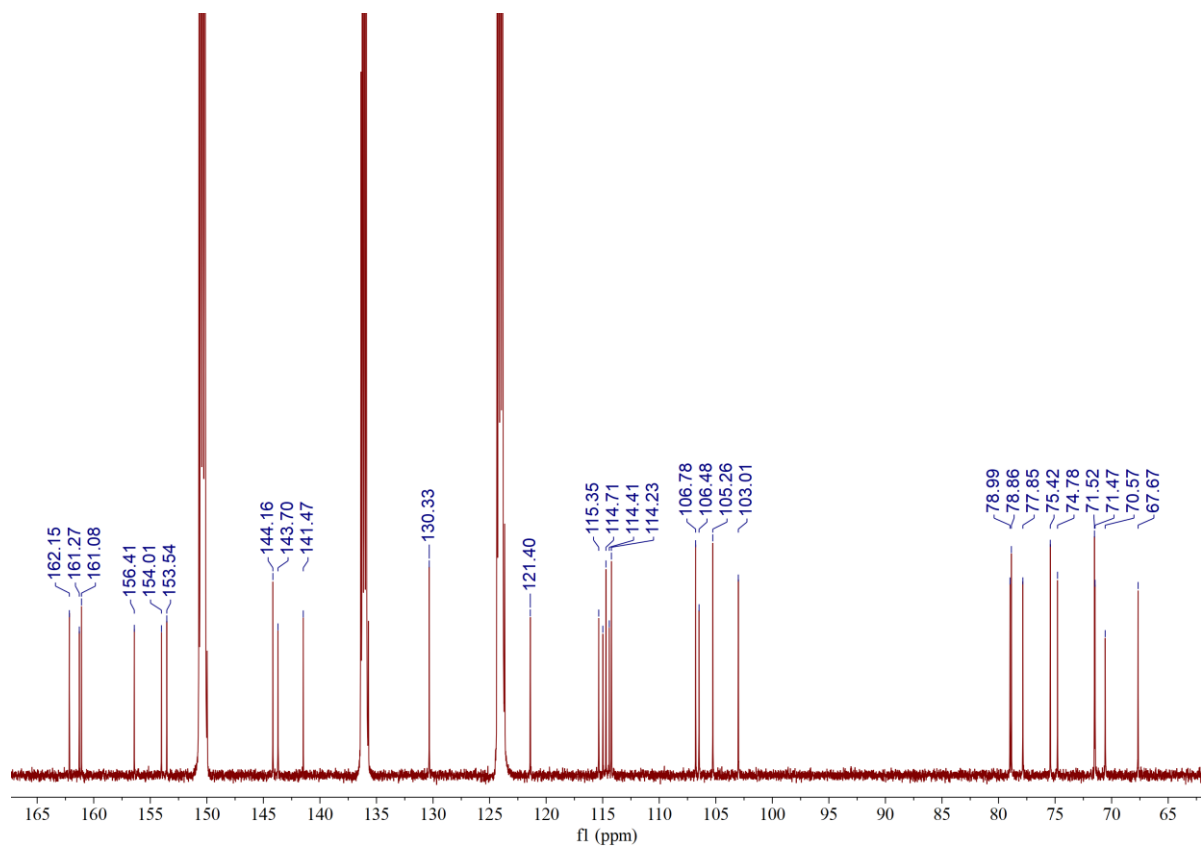


Figure S8. ¹³C NMR spectrum of compound **1** (600 MHz, pyridine-*d*₅) (expanded).

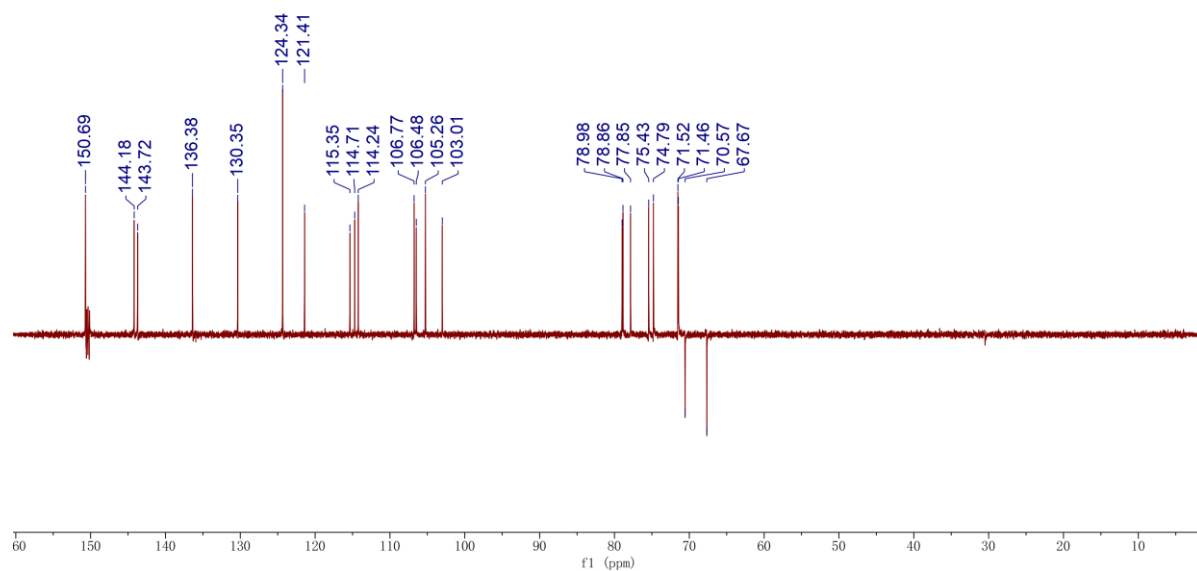


Figure S9. DEPT 135 spectrum of compound **1** (600 MHz, pyridine- d_5).

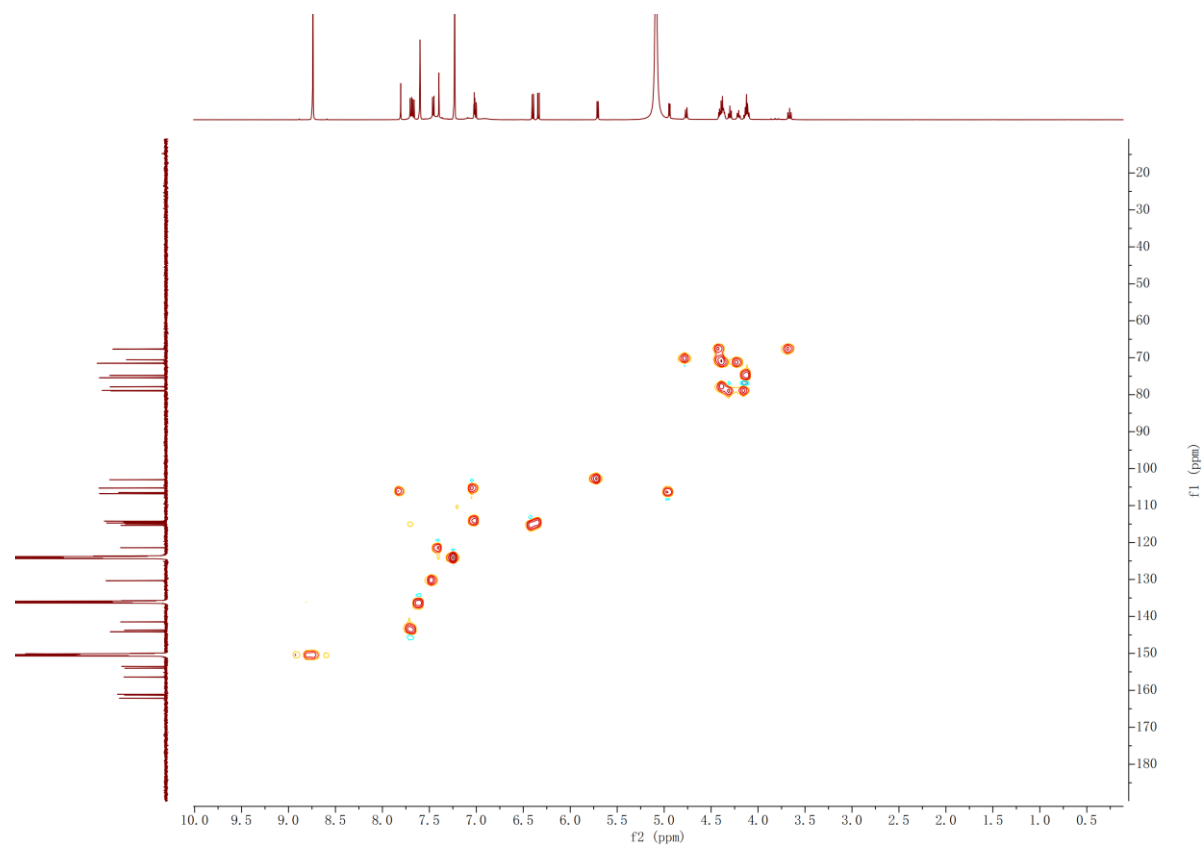


Figure S10. $^1\text{H}, ^1\text{H}$ COSY spectrum of compound **1** (600 MHz, pyridine- d_5).

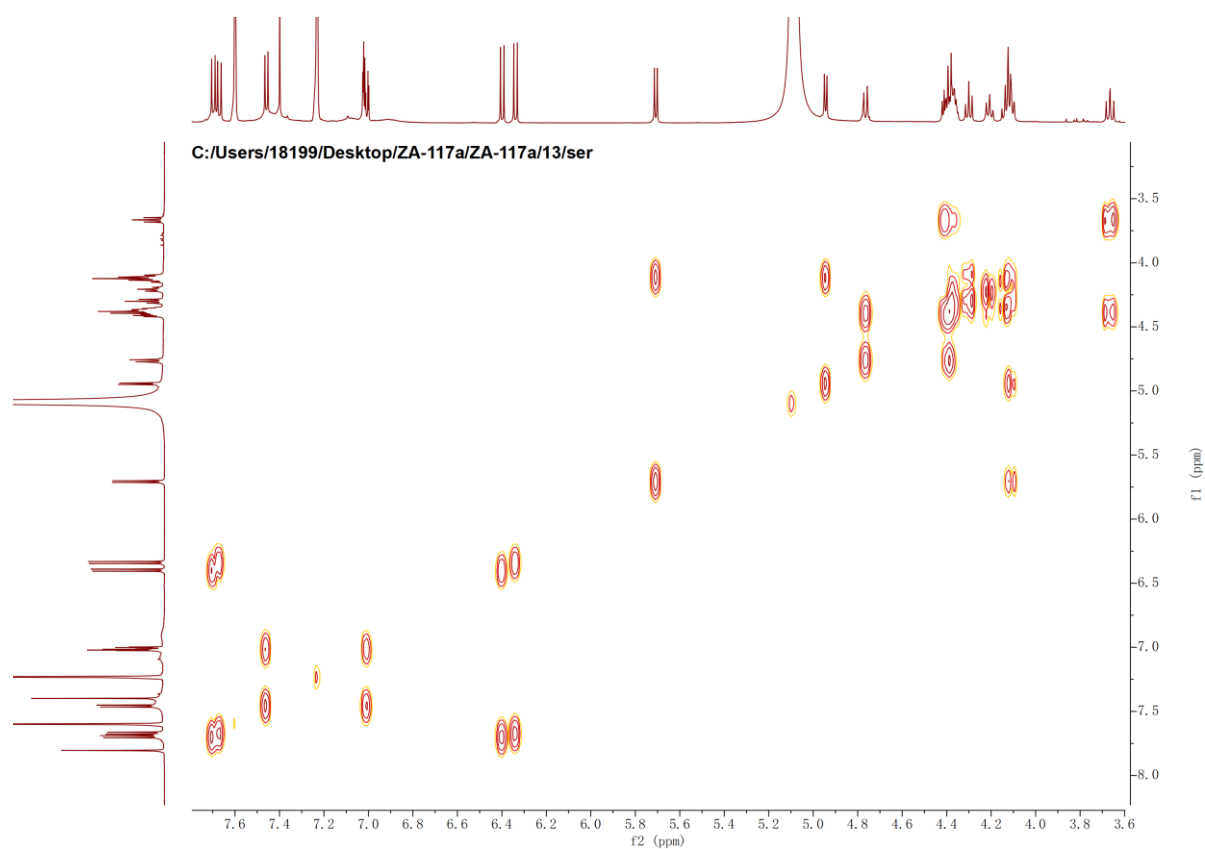


Figure S11. ^1H , ^1H COSY spectrum of compound **1** (600 MHz, pyridine- d_5) (expanded).

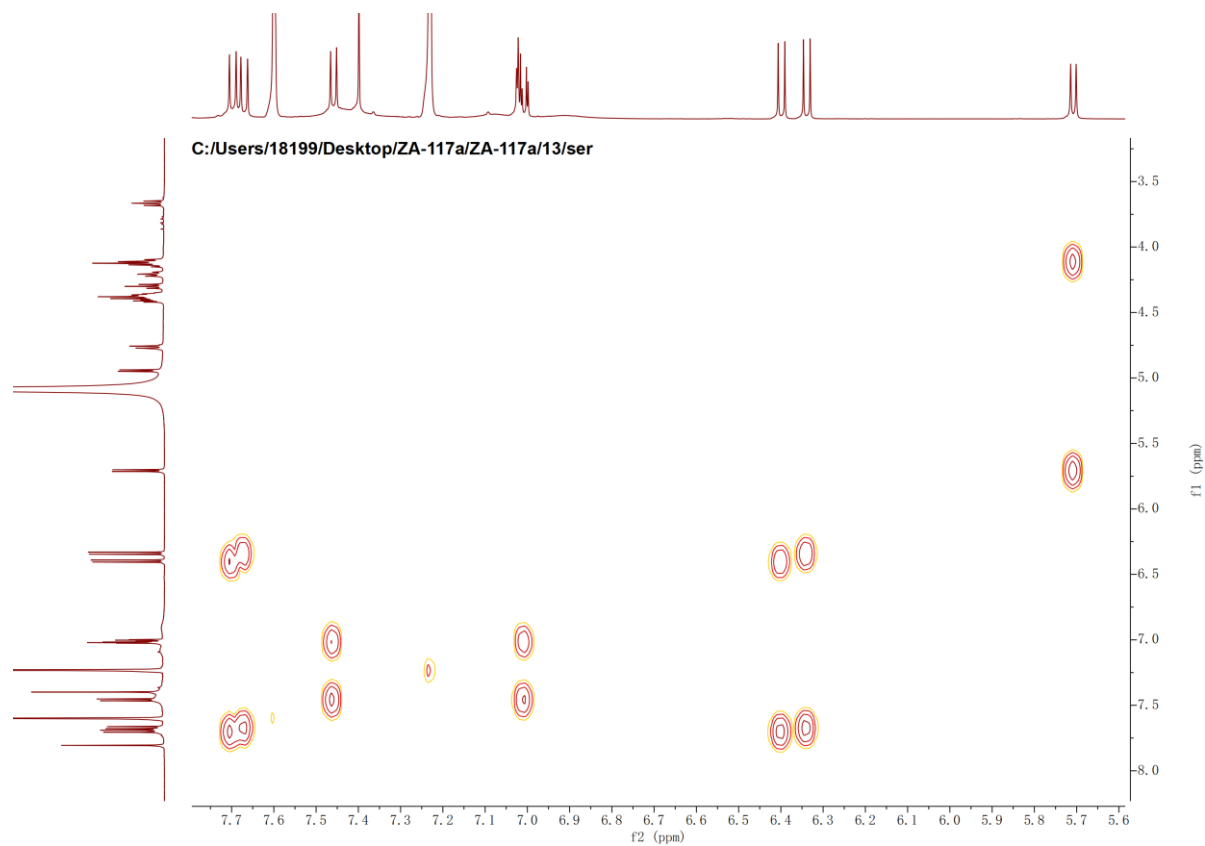


Figure S12. ^1H , ^1H COSY spectrum of compound **1** (600 MHz, pyridine- d_5) (expanded).

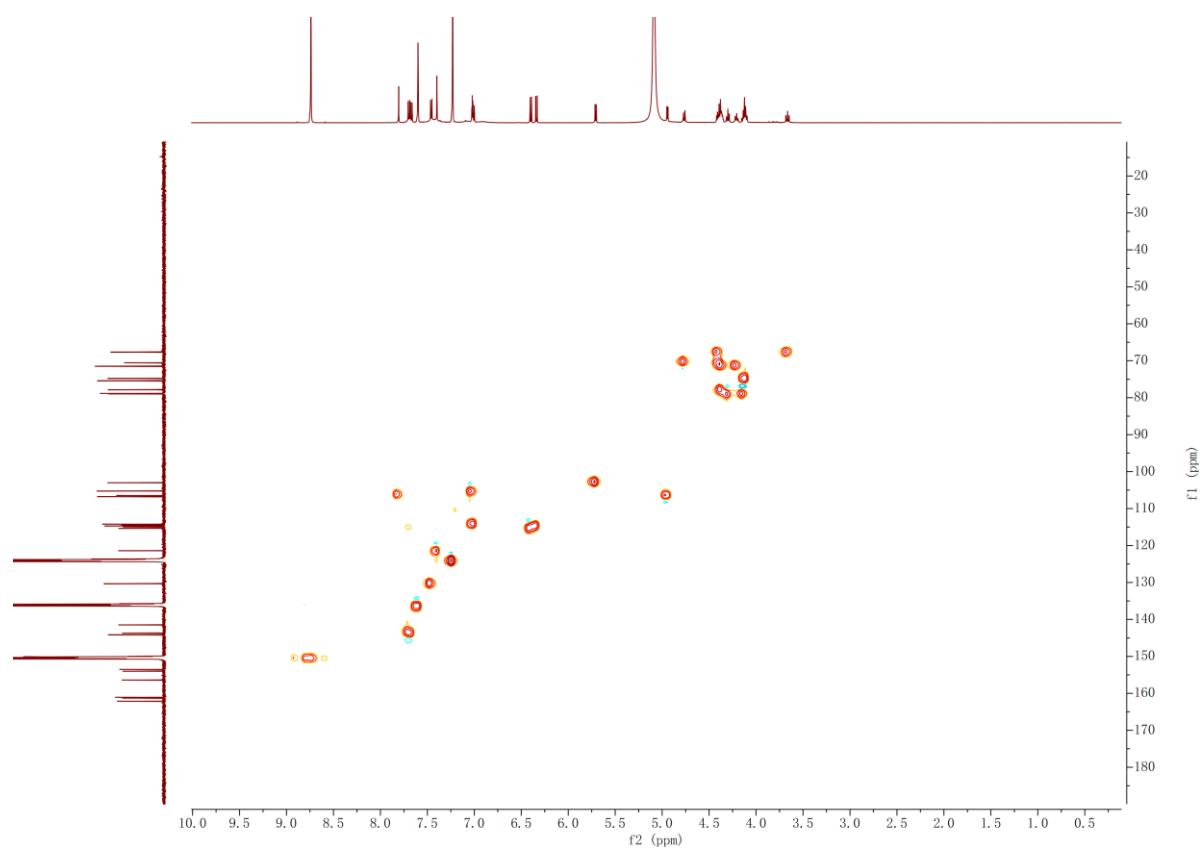


Figure S13. HSQC spectrum of compound **1** (600 MHz, pyridine- d_5).

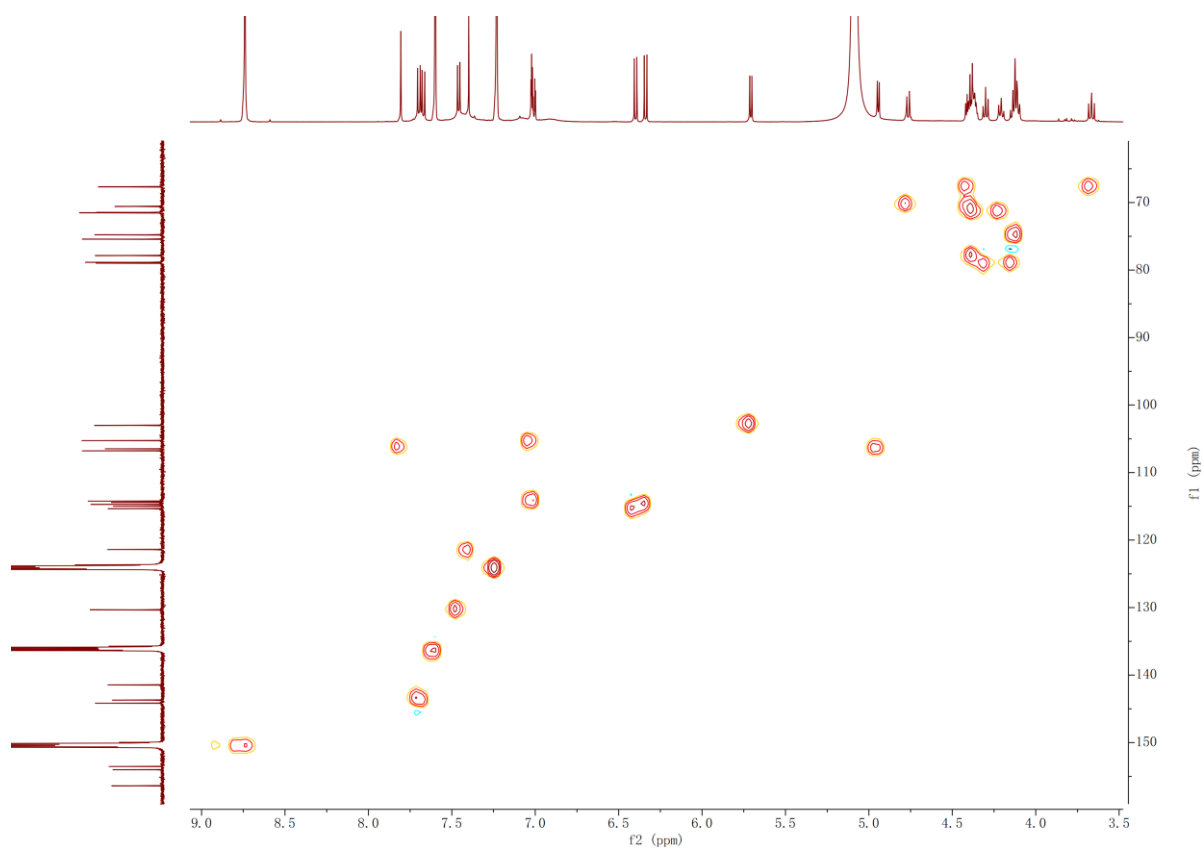


Figure S14. HSQC spectrum of compound **1** (600 MHz, pyridine- d_5) (expanded).

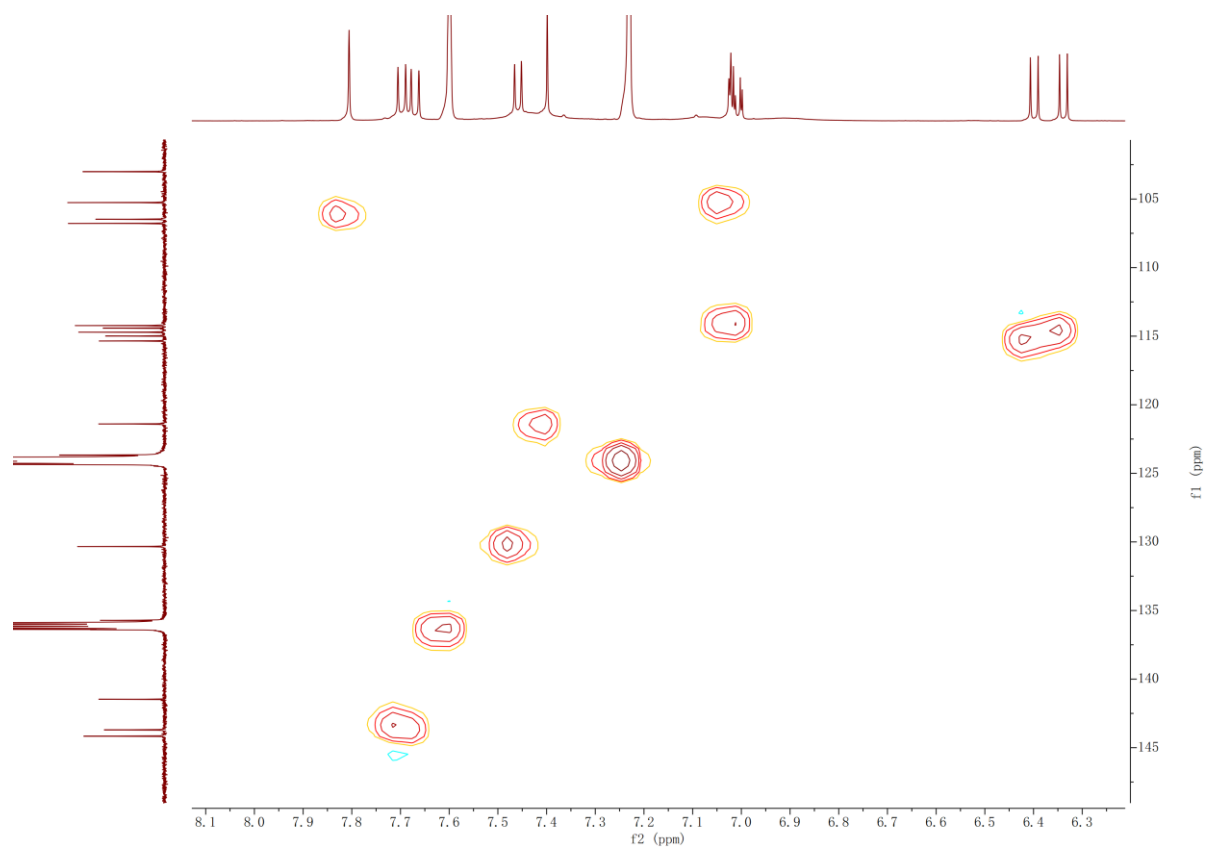


Figure S15. HSQC spectrum of compound **1** (600 MHz, pyridine-*d*₅) (expanded).

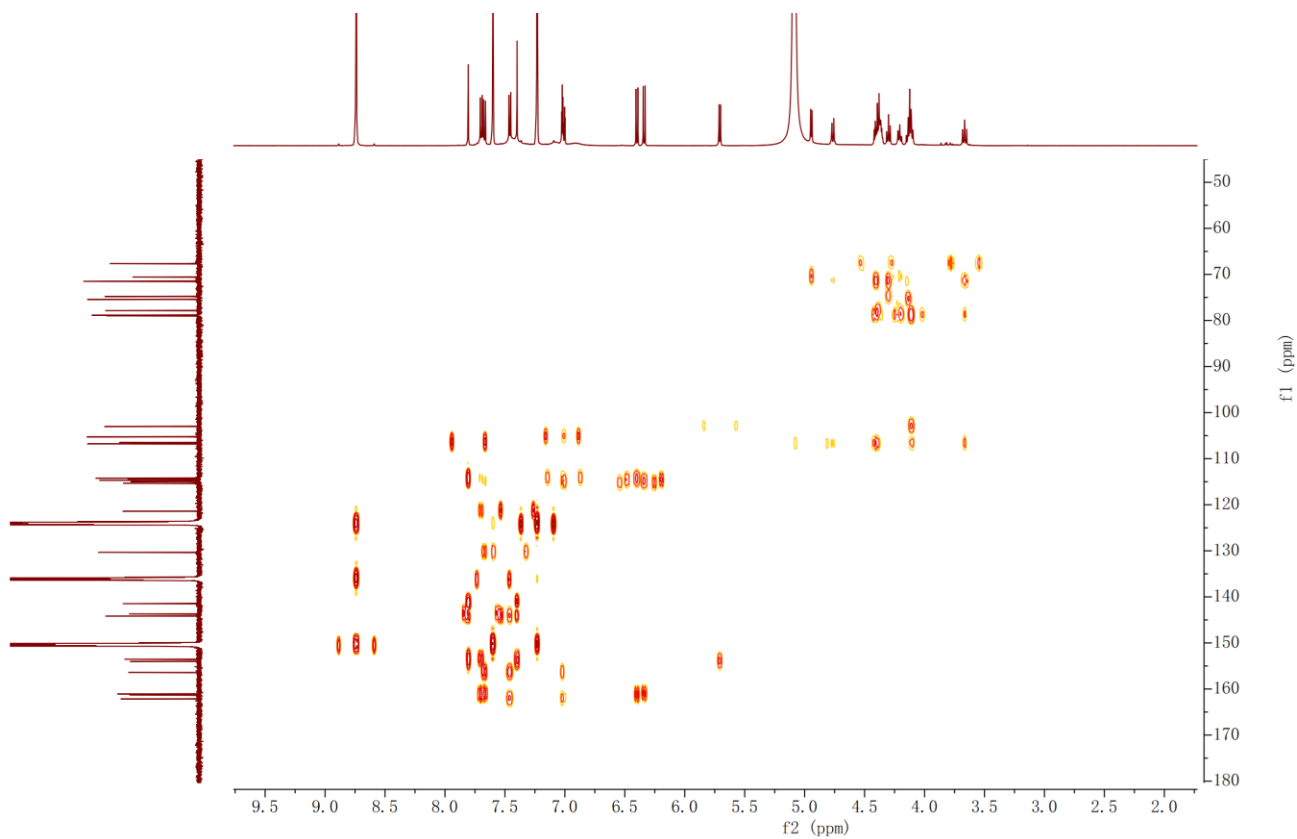


Figure S16. HMBC spectrum of compound **1** (600 MHz, pyridine-*d*₅).

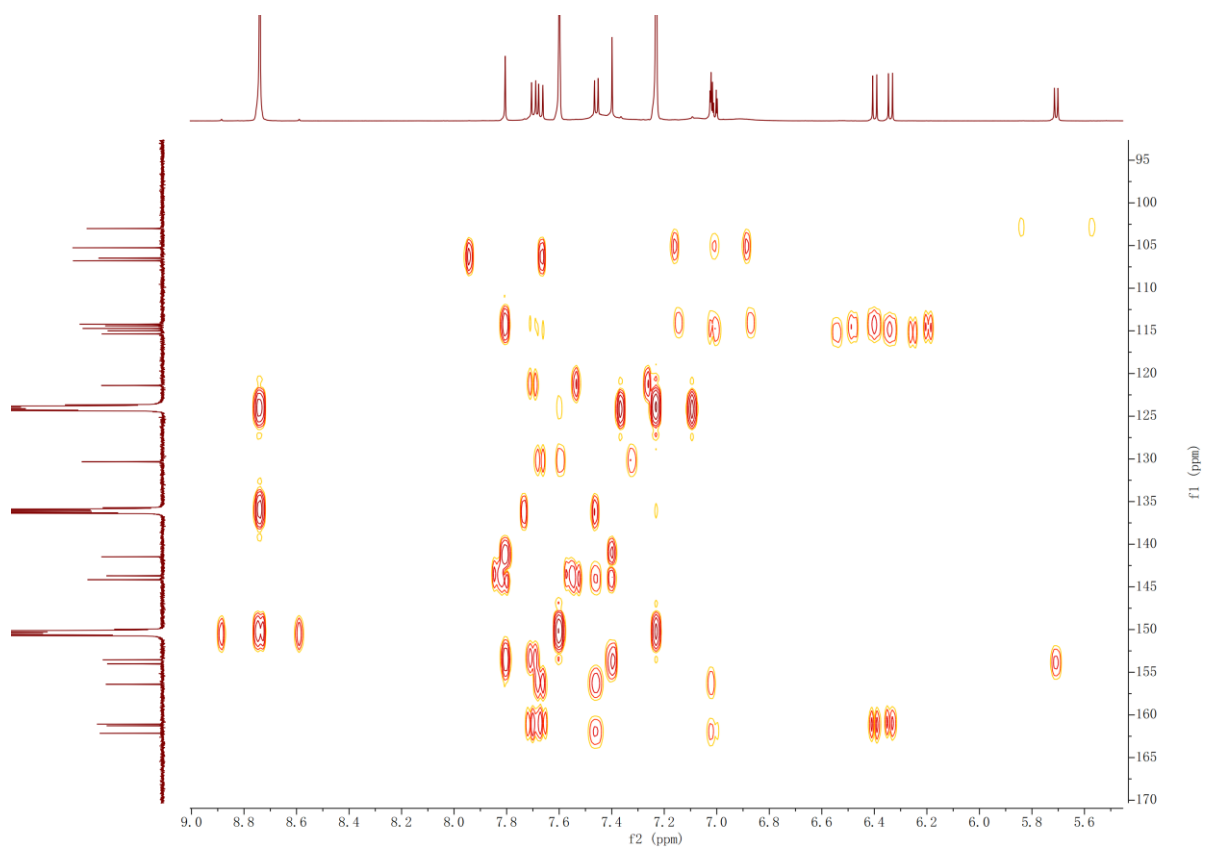


Figure S17. HMBC spectrum of compound **1** (600 MHz, pyridine-*d*₅) (expanded).

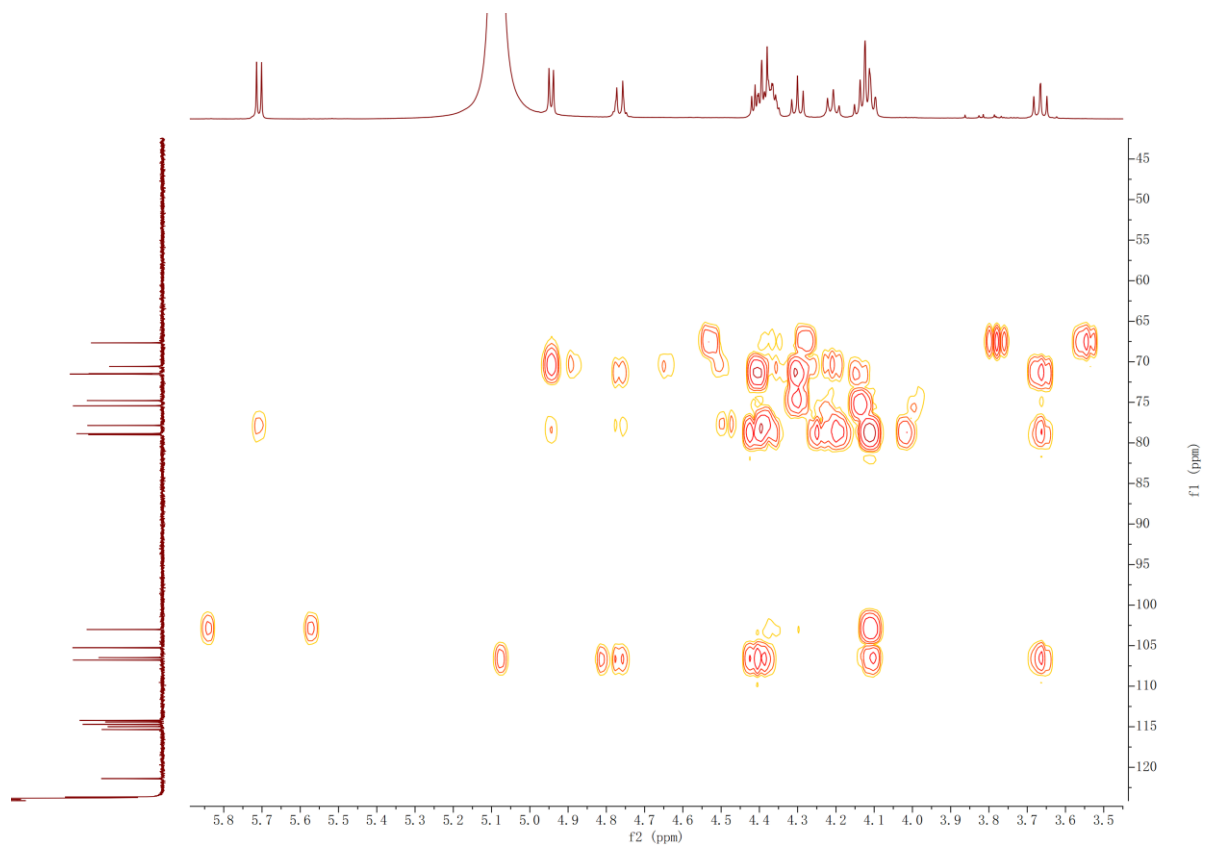


Figure S18. HMBC spectrum of compound **1** (600 MHz, pyridine-*d*₅) (expanded).

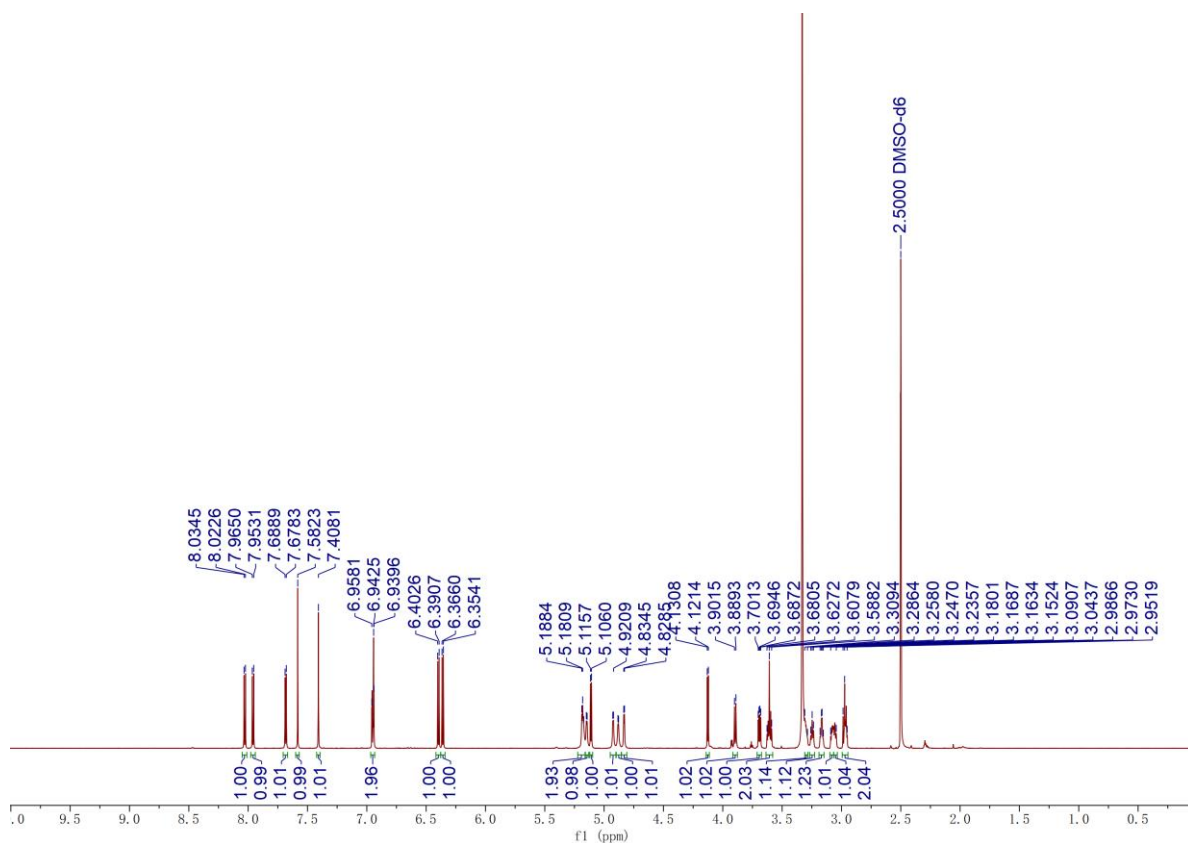


Figure S19: ^1H NMR spectrum of compound **1** (800 MHz, $\text{DMSO}-d_6$).

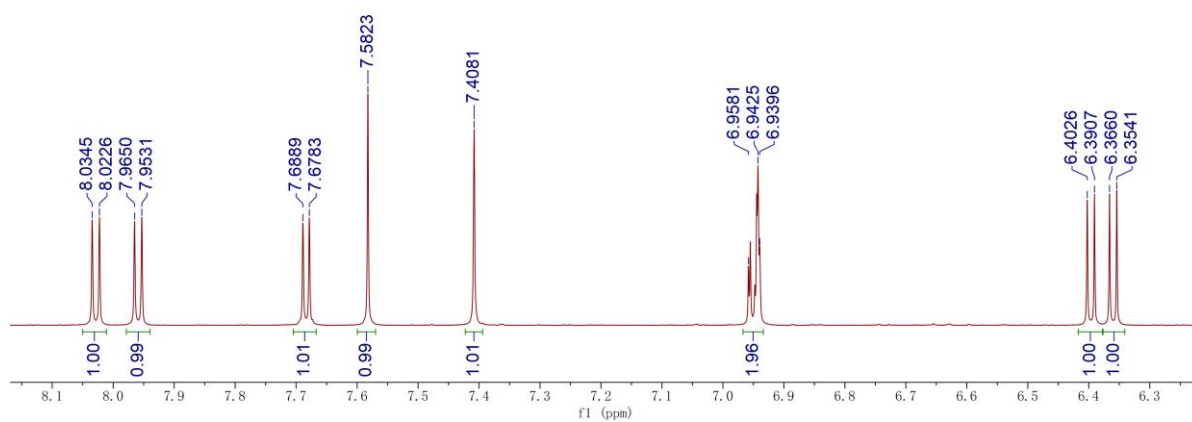
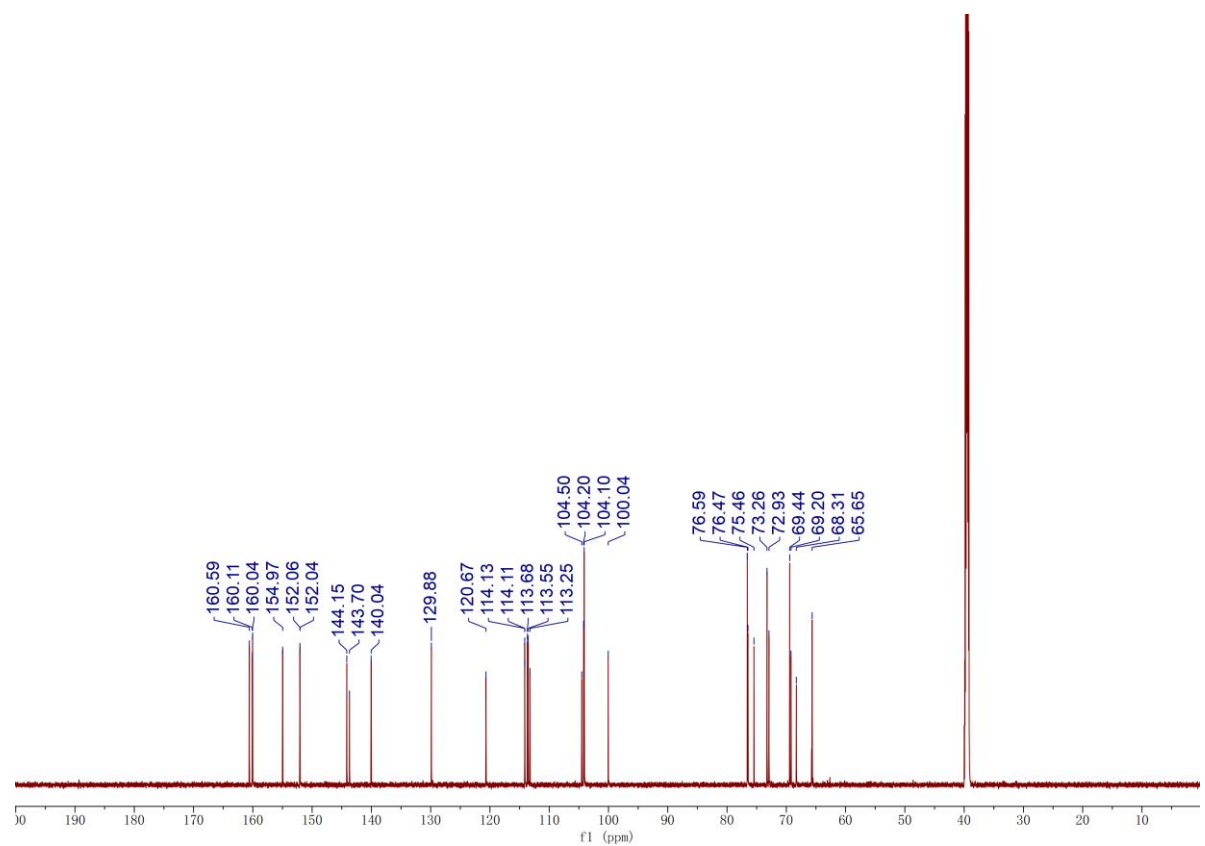
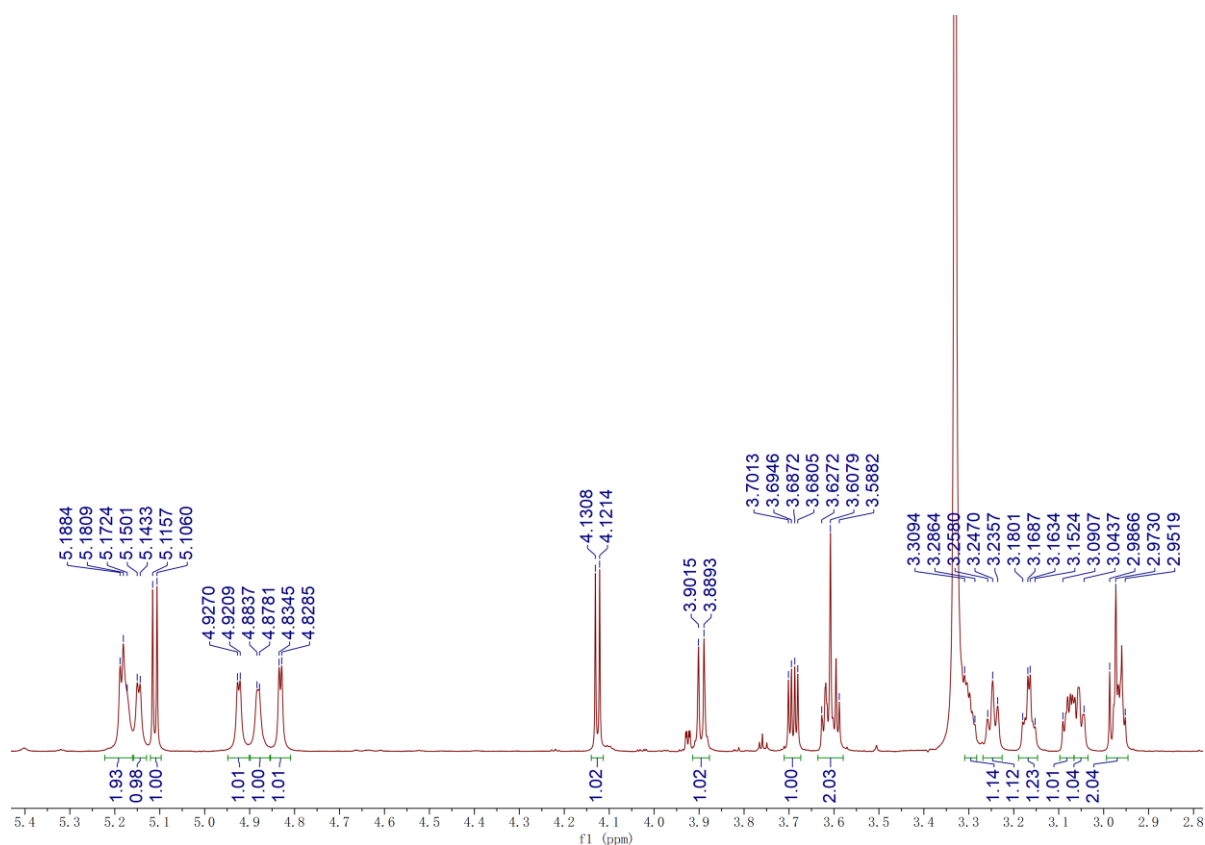


Figure S20: ^1H NMR spectrum of compound **1** (800 MHz, $\text{DMSO}-d_6$) (expanded).



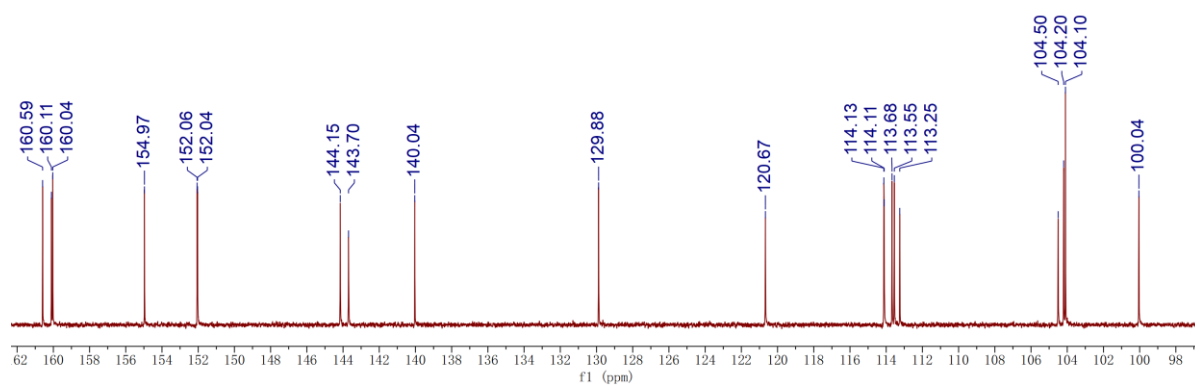


Figure S23: ¹³C NMR spectrum of compound **1** (200 MHz, DMSO-*d*₆) (expanded).

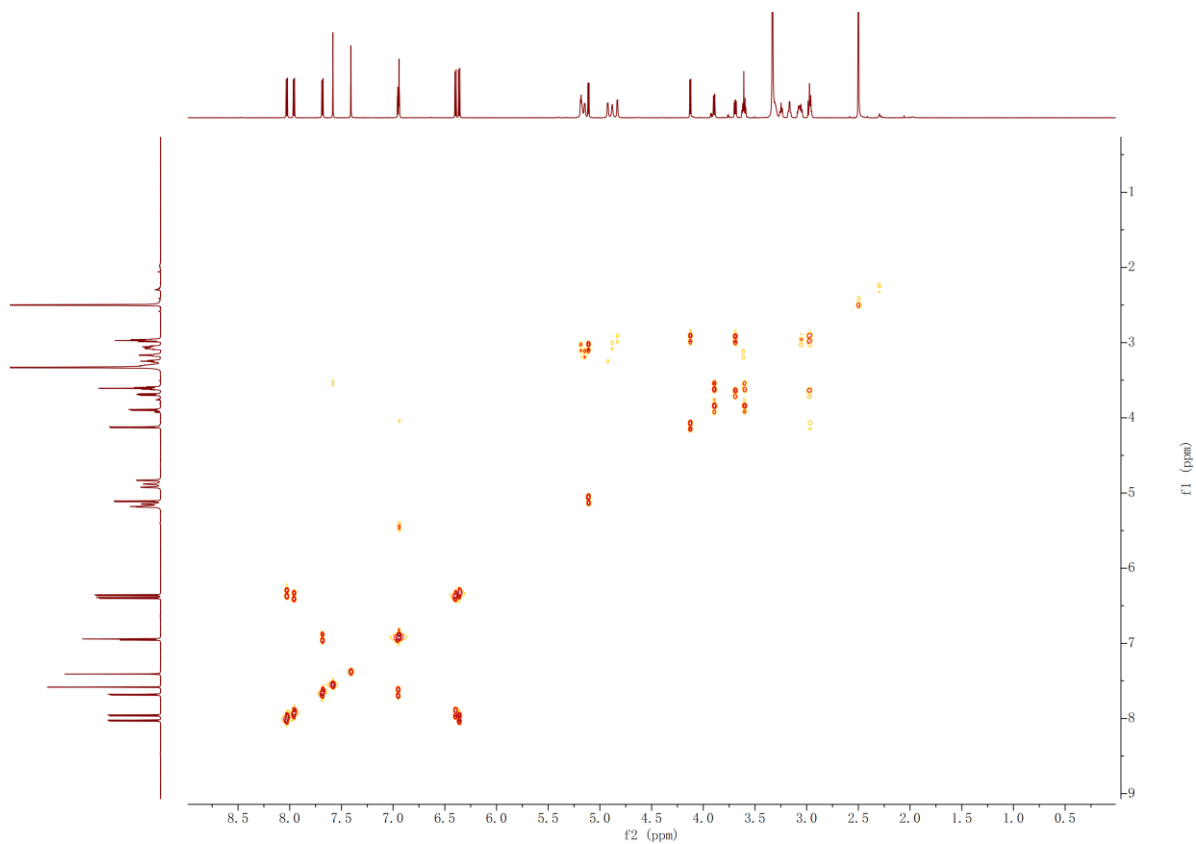


Figure S24: ¹H, ¹H COSY spectrum of compound **1** (DMSO-*d*₆).

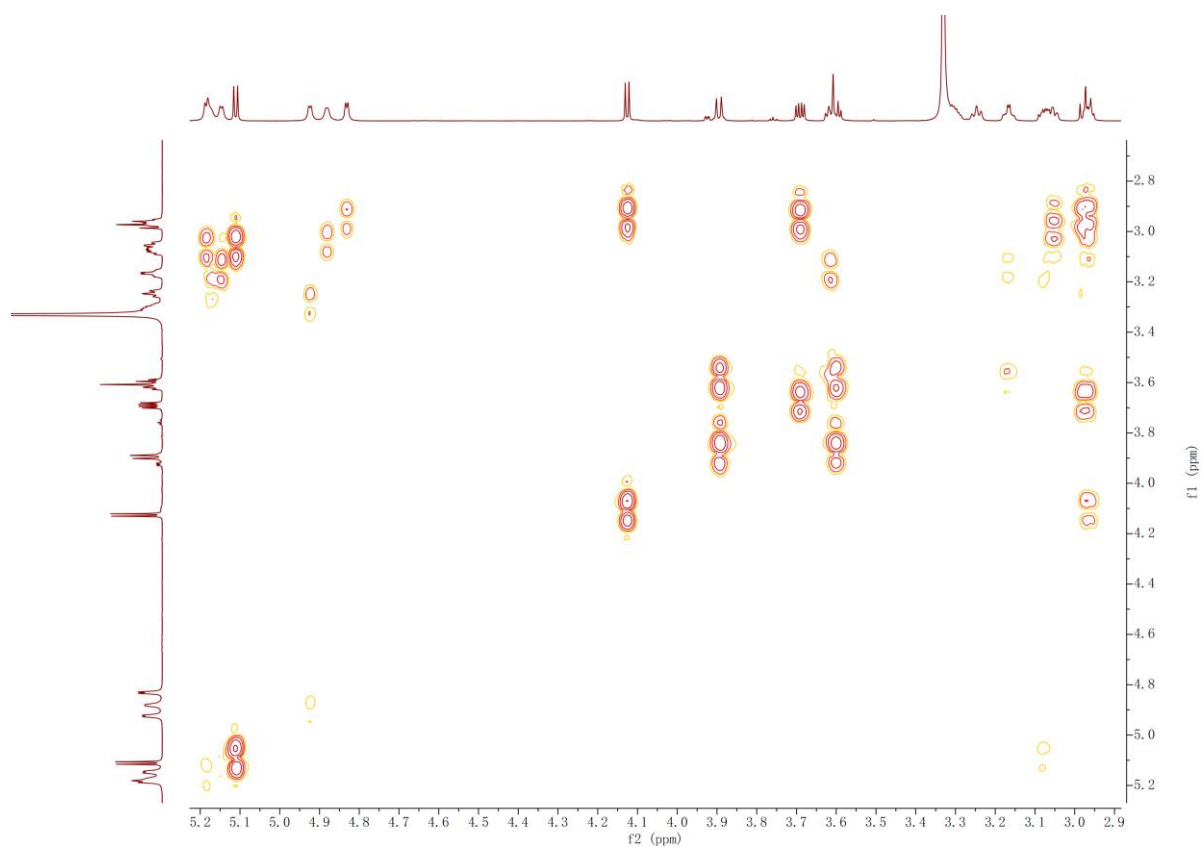


Figure S25: ^1H , ^1H COSY spectrum of compound 1 ($\text{DMSO-}d_6$) (expanded).

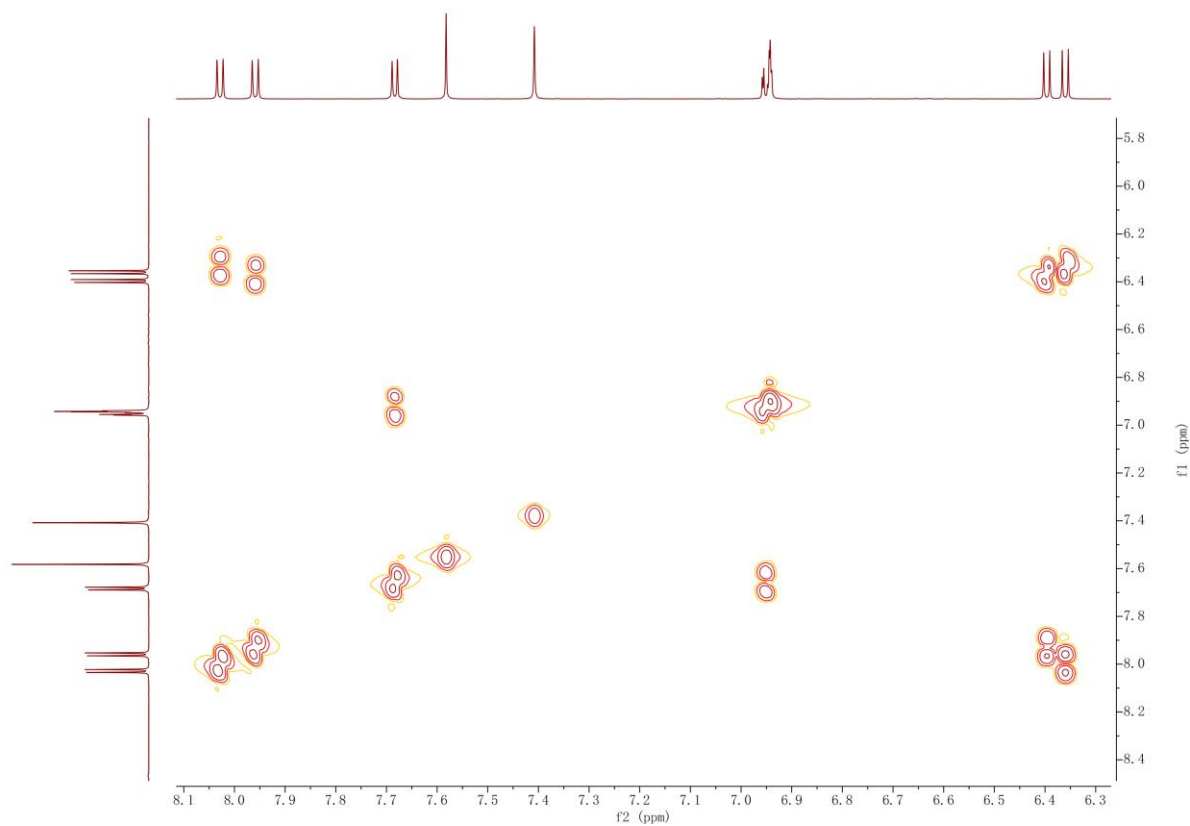


Figure S26: ^1H , ^1H COSY spectrum of compound 1 ($\text{DMSO-}d_6$) (expanded).

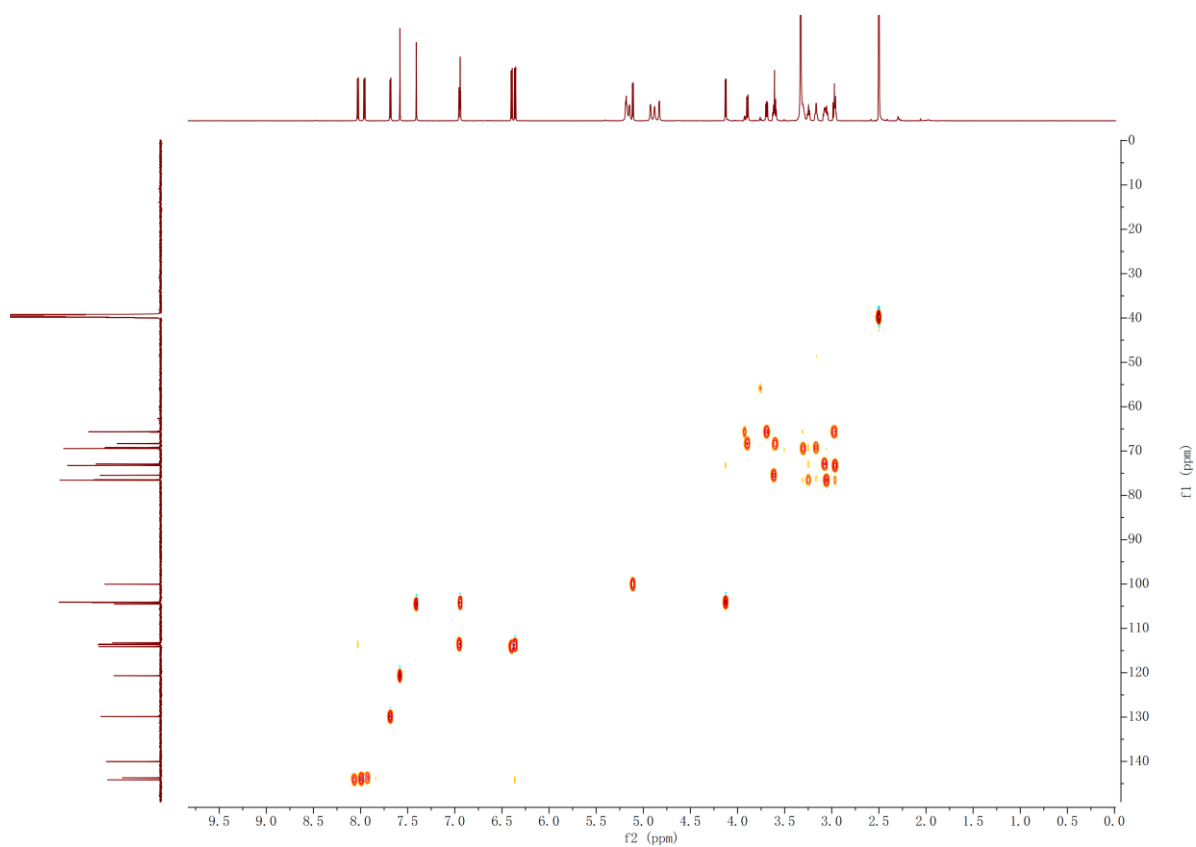


Figure S27: HSQC spectrum of compound **1** (DMSO- d_6).

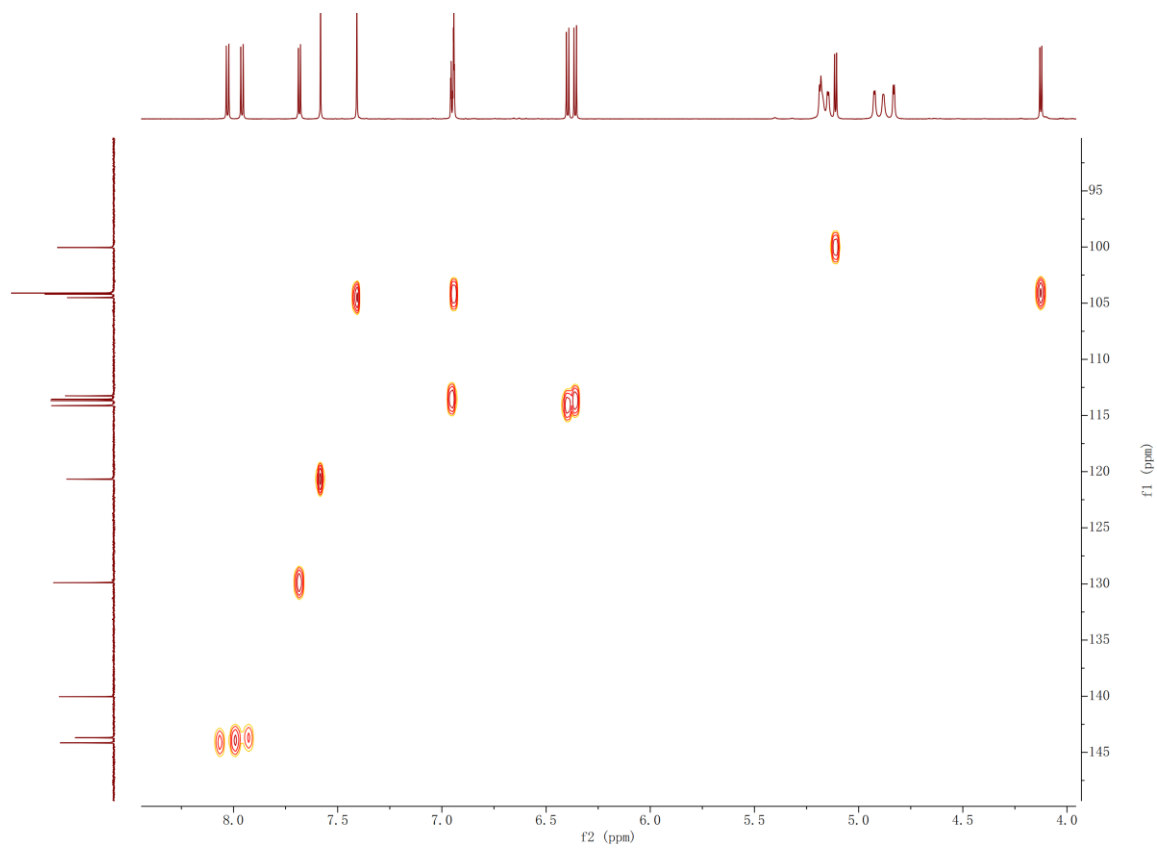


Figure S28 HSQC spectrum of compound **1** (DMSO- d_6) (expanded).

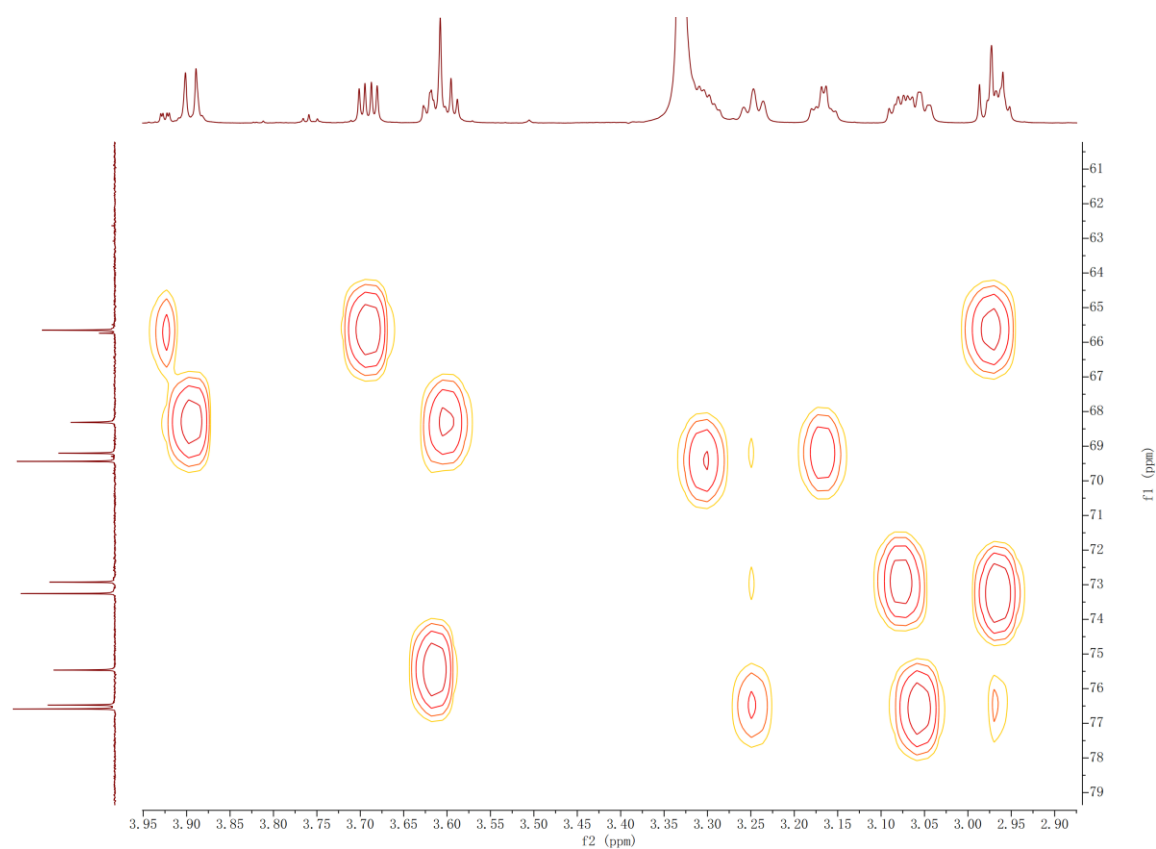


Figure S29: HSQC spectrum of compound 1 (DMSO- d_6) (expanded).

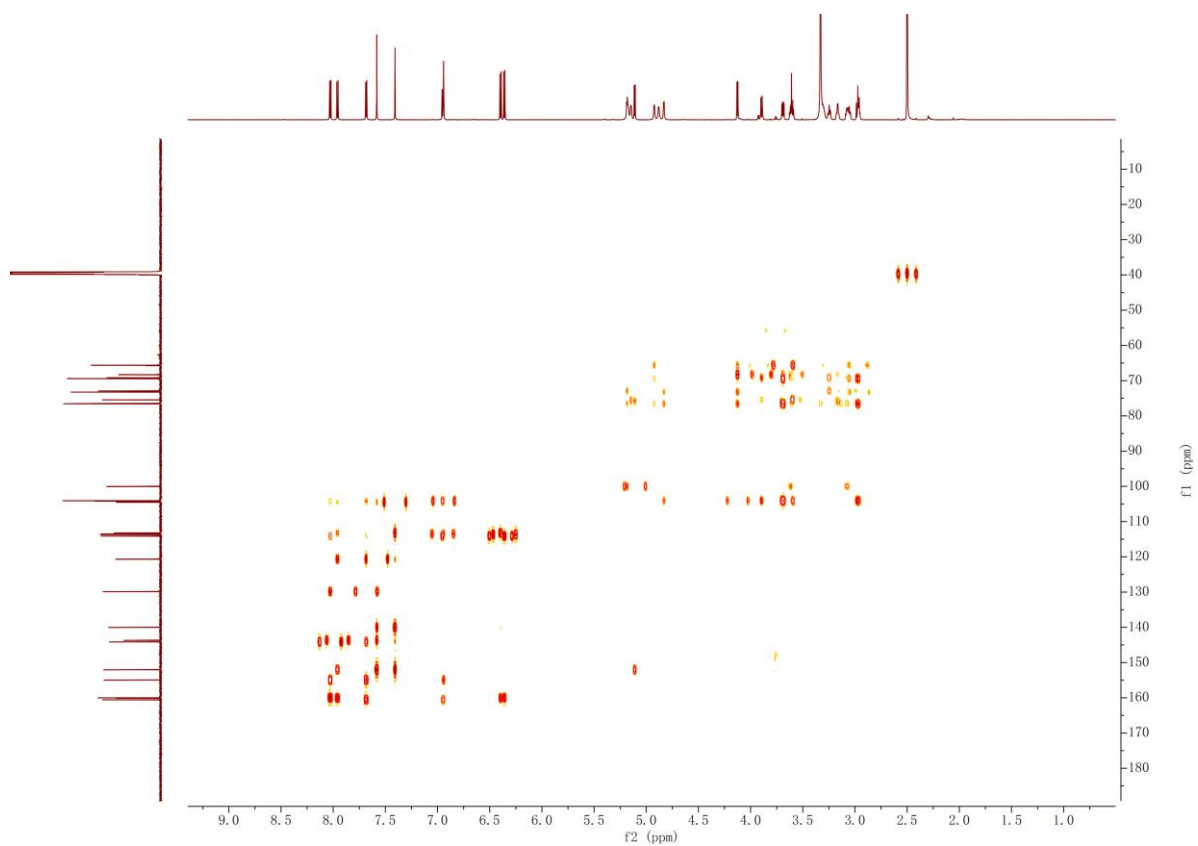


Figure S30: HMBC spectrum of compound 1 (DMSO- d_6).

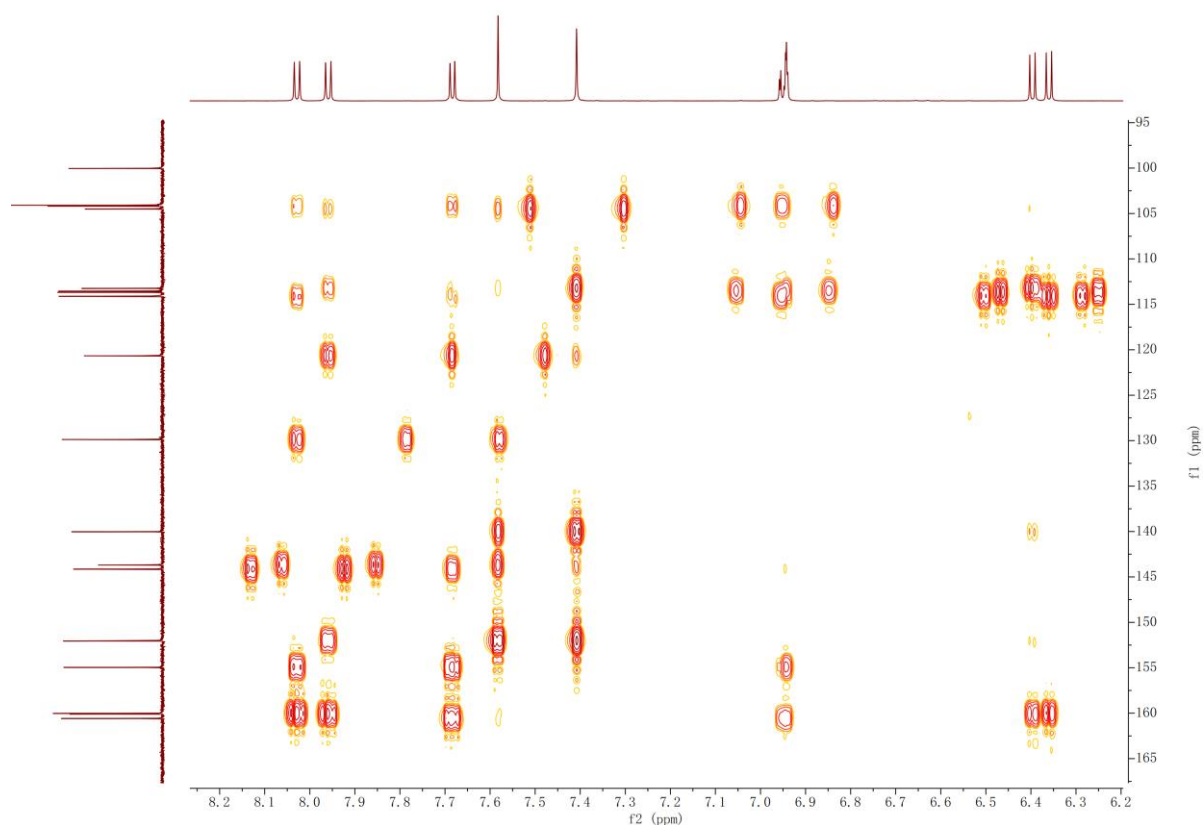


Figure S31: HMBC spectrum of compound **1** (DMSO- d_6) (expanded).

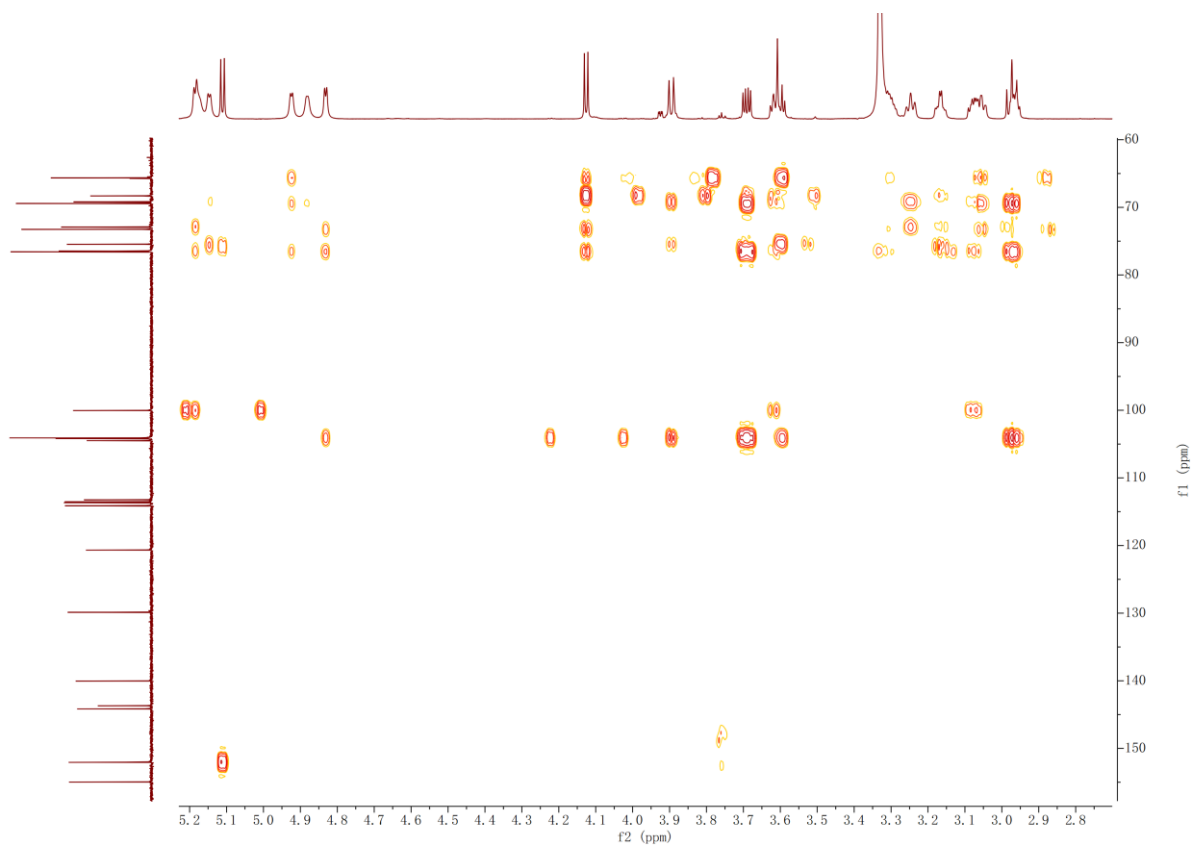


Figure S32: HMBC spectrum of compound **1** (DMSO- d_6) (expanded).

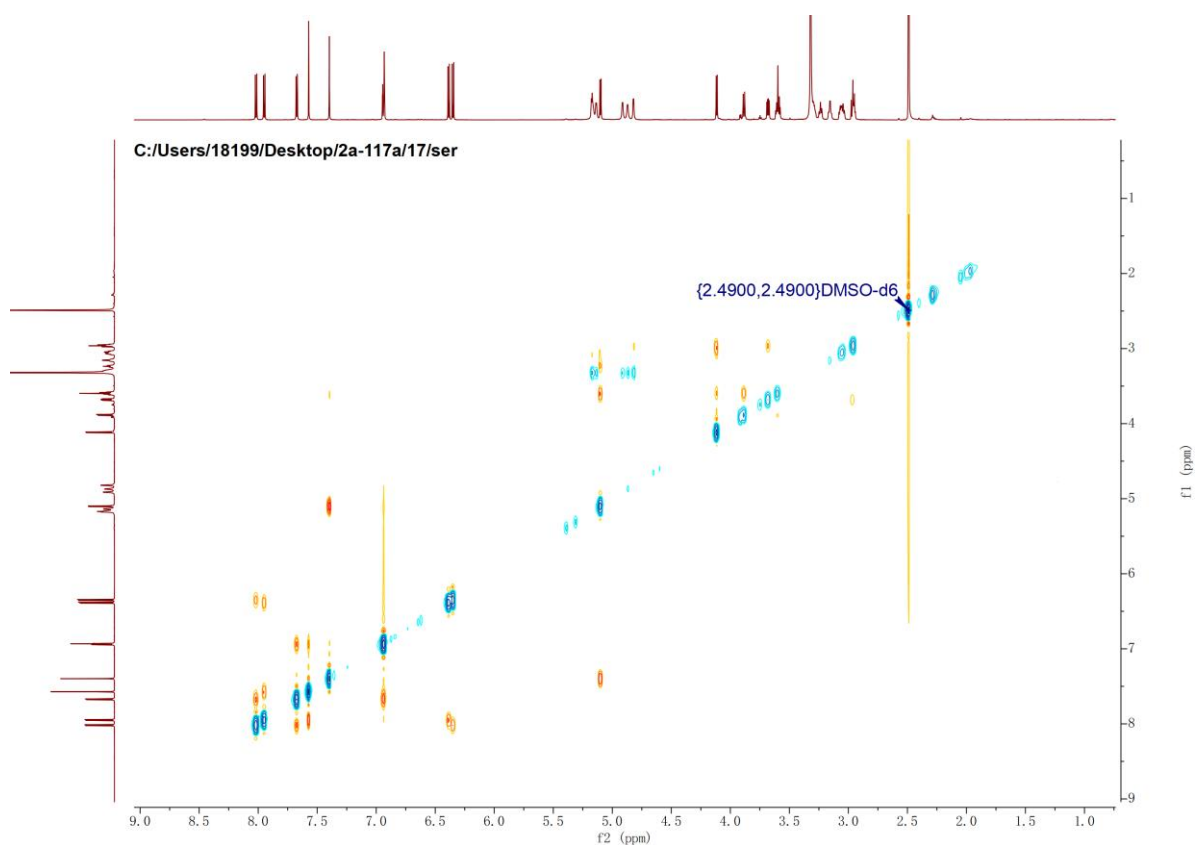


Figure S33: ROESY spectrum of compound 1 (DMSO- d_6).

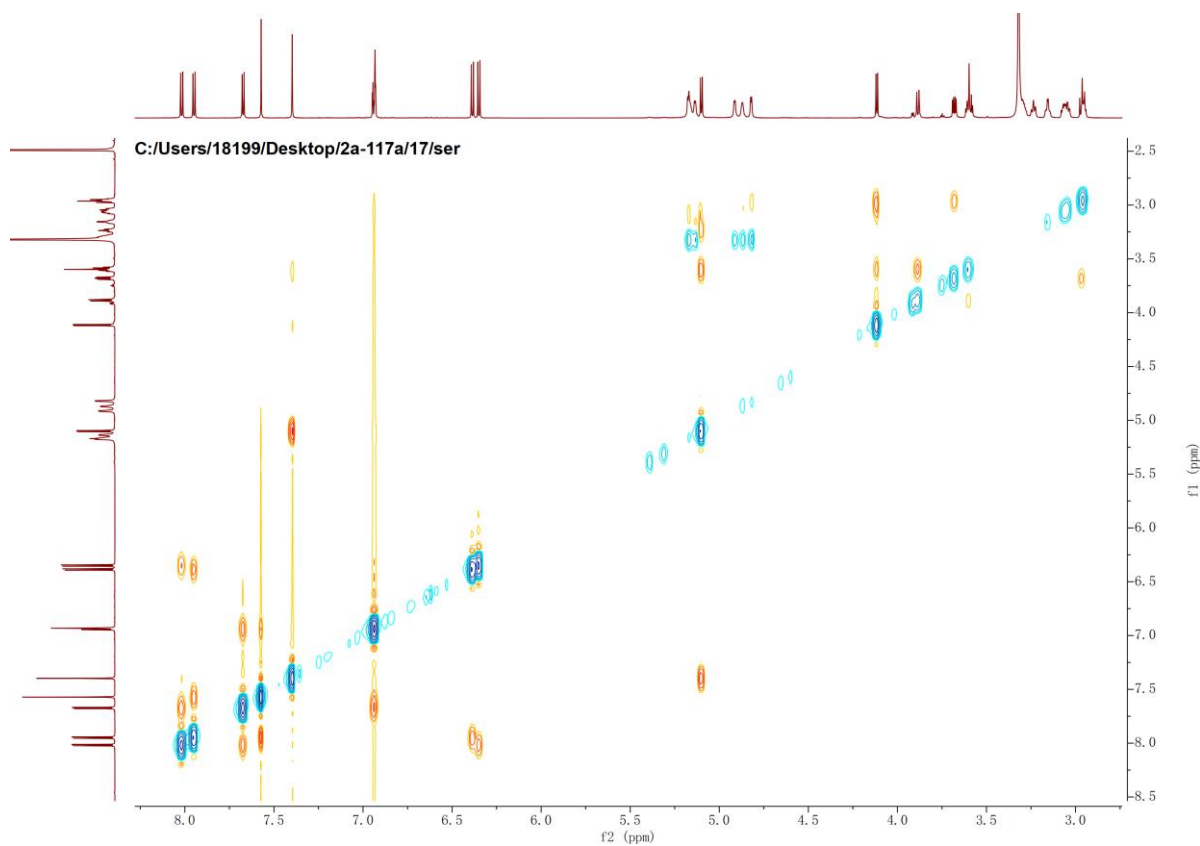


Figure S34: ROESY spectrum of compound 1 (DMSO- d_6) (expanded).