

Supplementary material

**Antiproliferative and proapoptotic effects of phenanthrene derivatives
isolated from *Bletilla striata* on A549 lung cancer cells**

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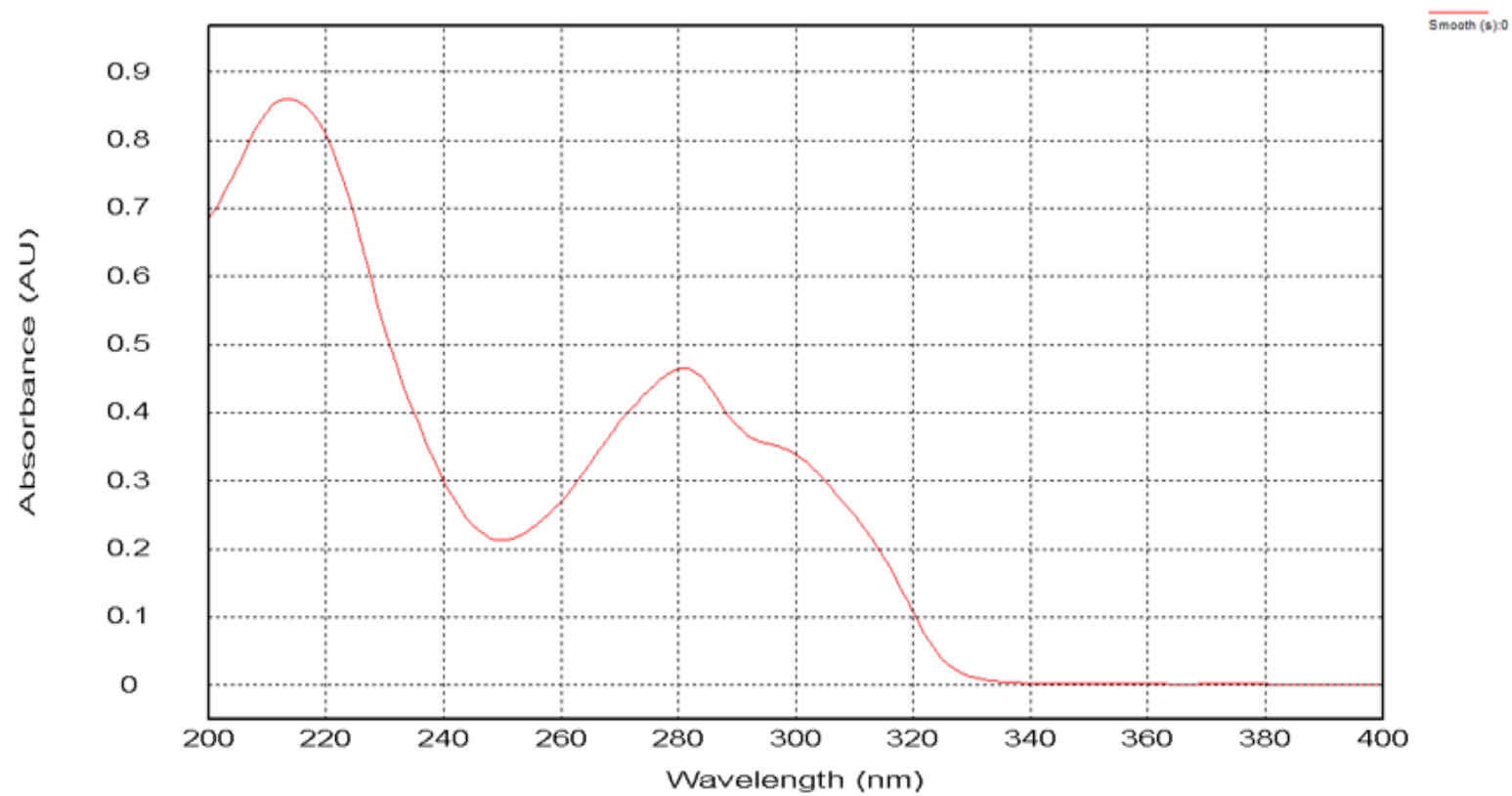


Figure S1. The UV spectrum of compound **1** in MeCN.

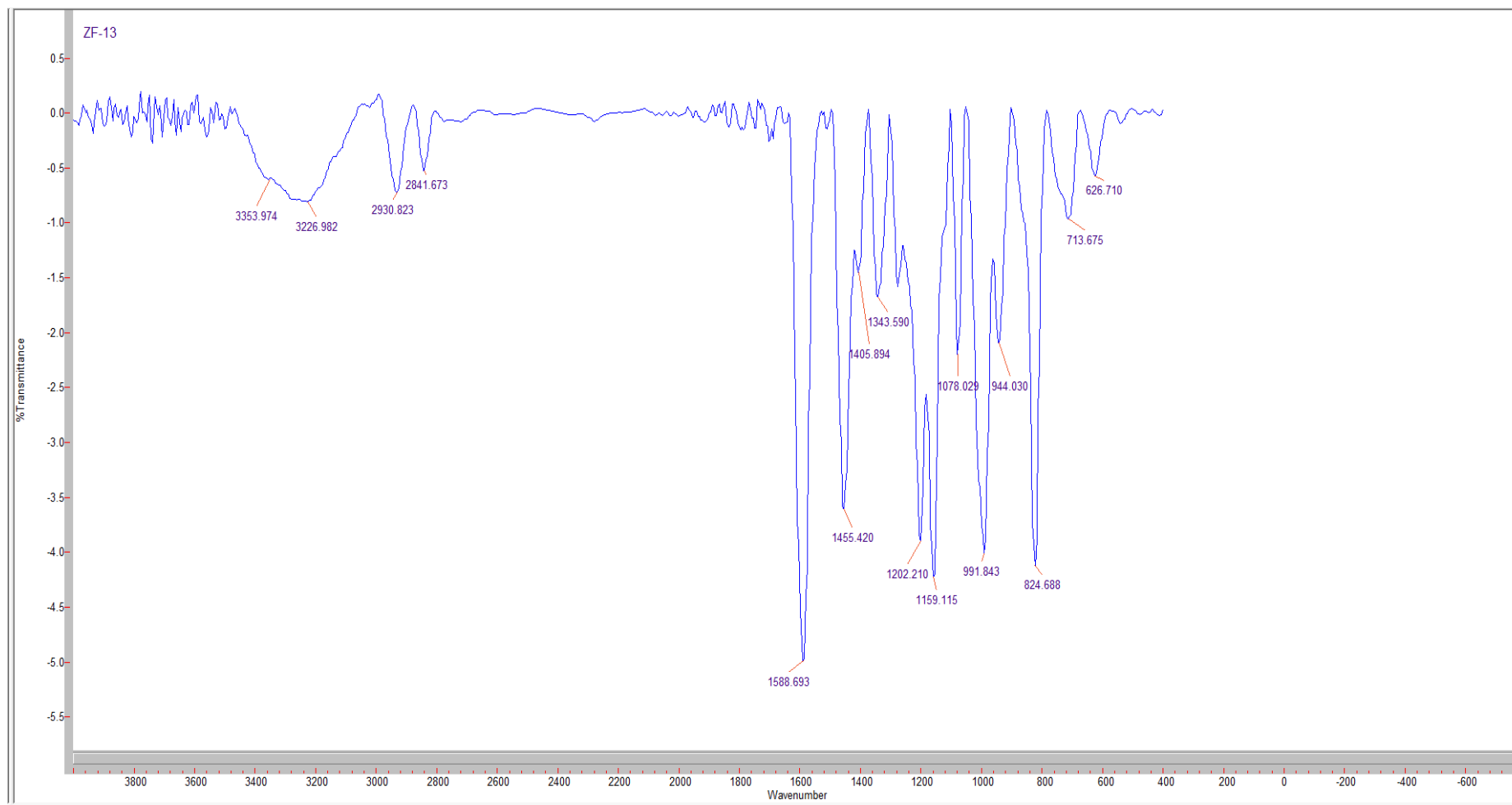


Figure S2. The IR spectrum of compound **1**.

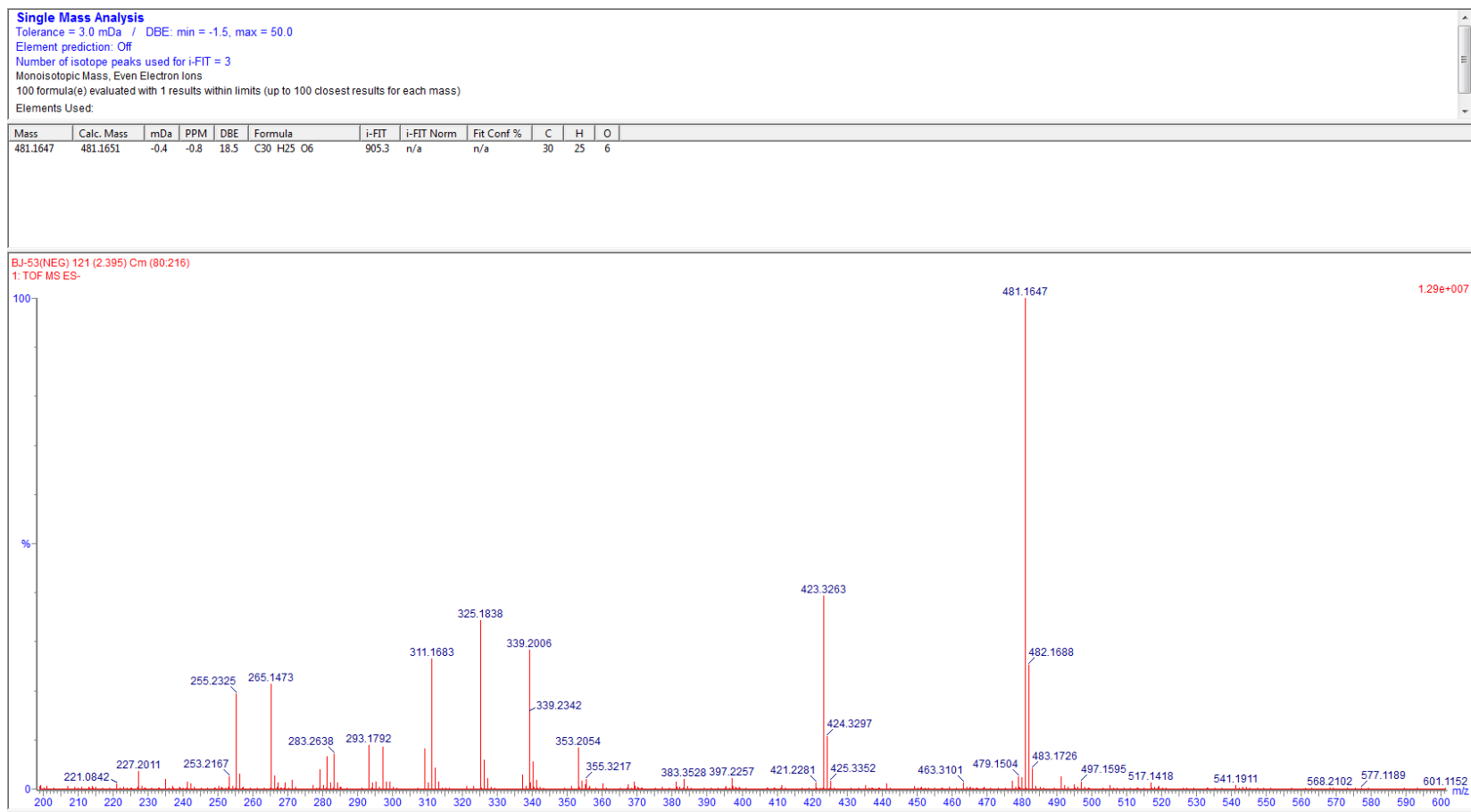


Figure S3. The (–)-HR-ESI-MS spectroscopic data of compound **1**.

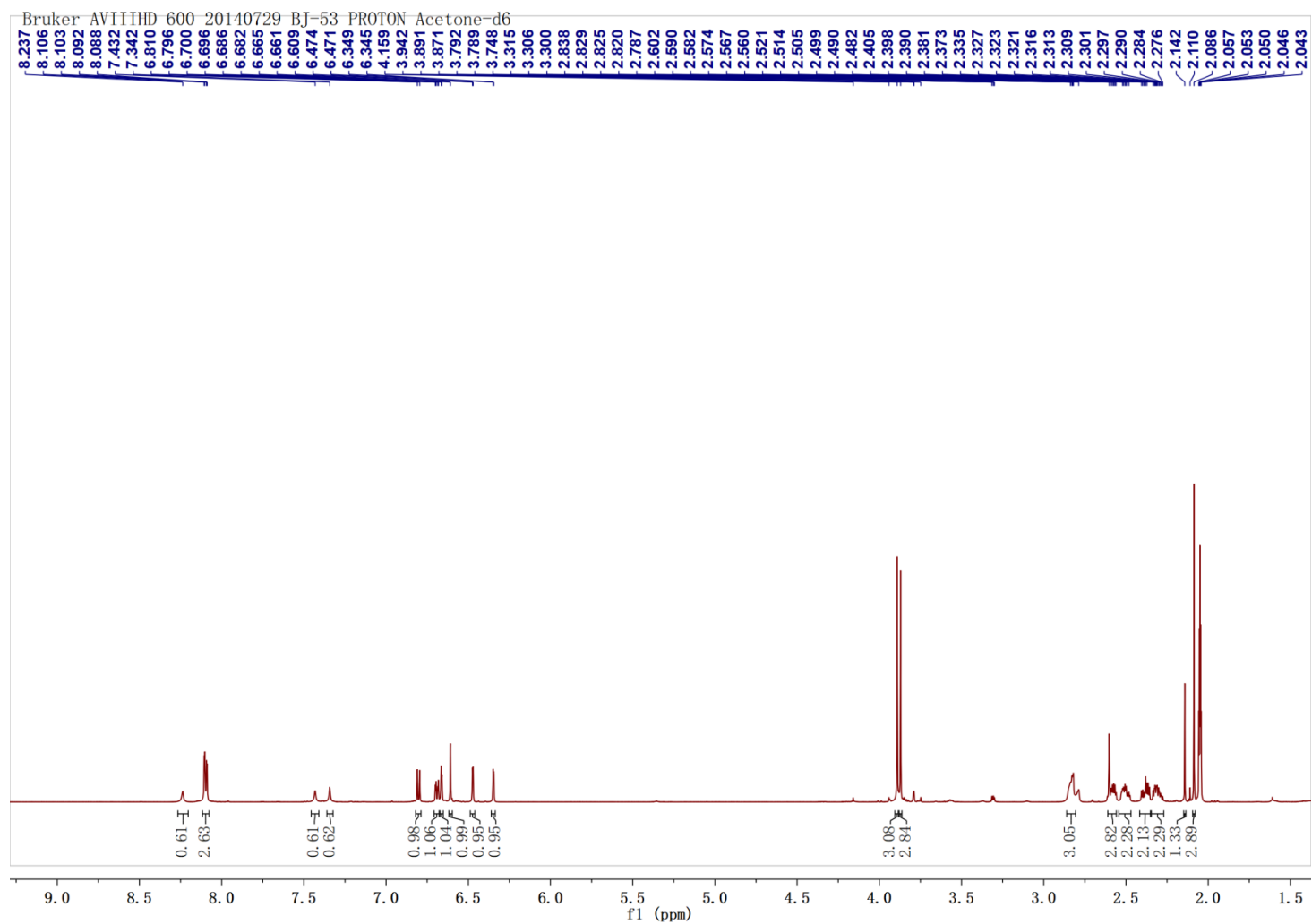


Figure S4. The ^1H NMR spectrum of compound **1** in acetone- d_6 .

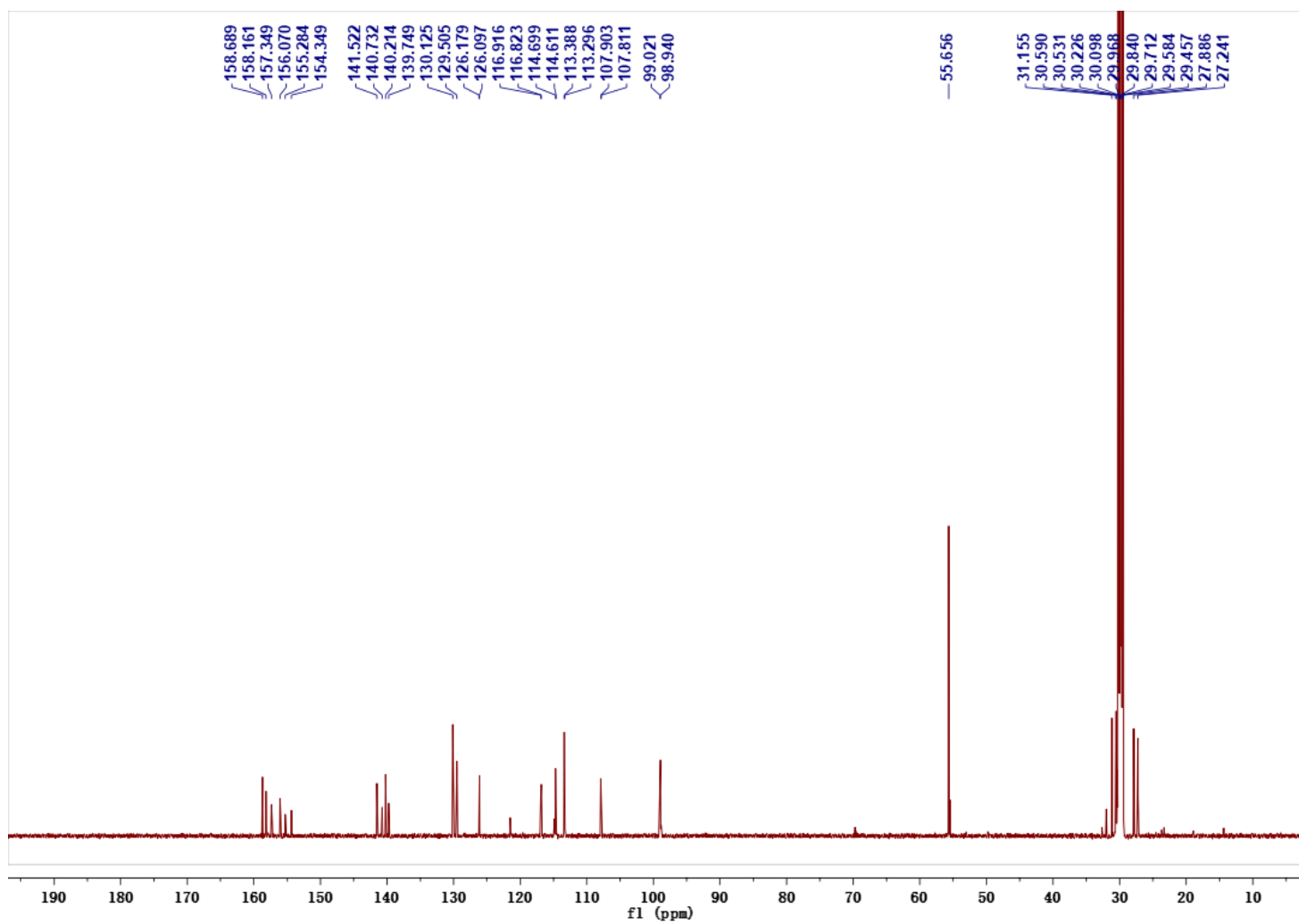


Figure S5. The ¹³C NMR spectrum of compound **1** in acetone-*d*₆.

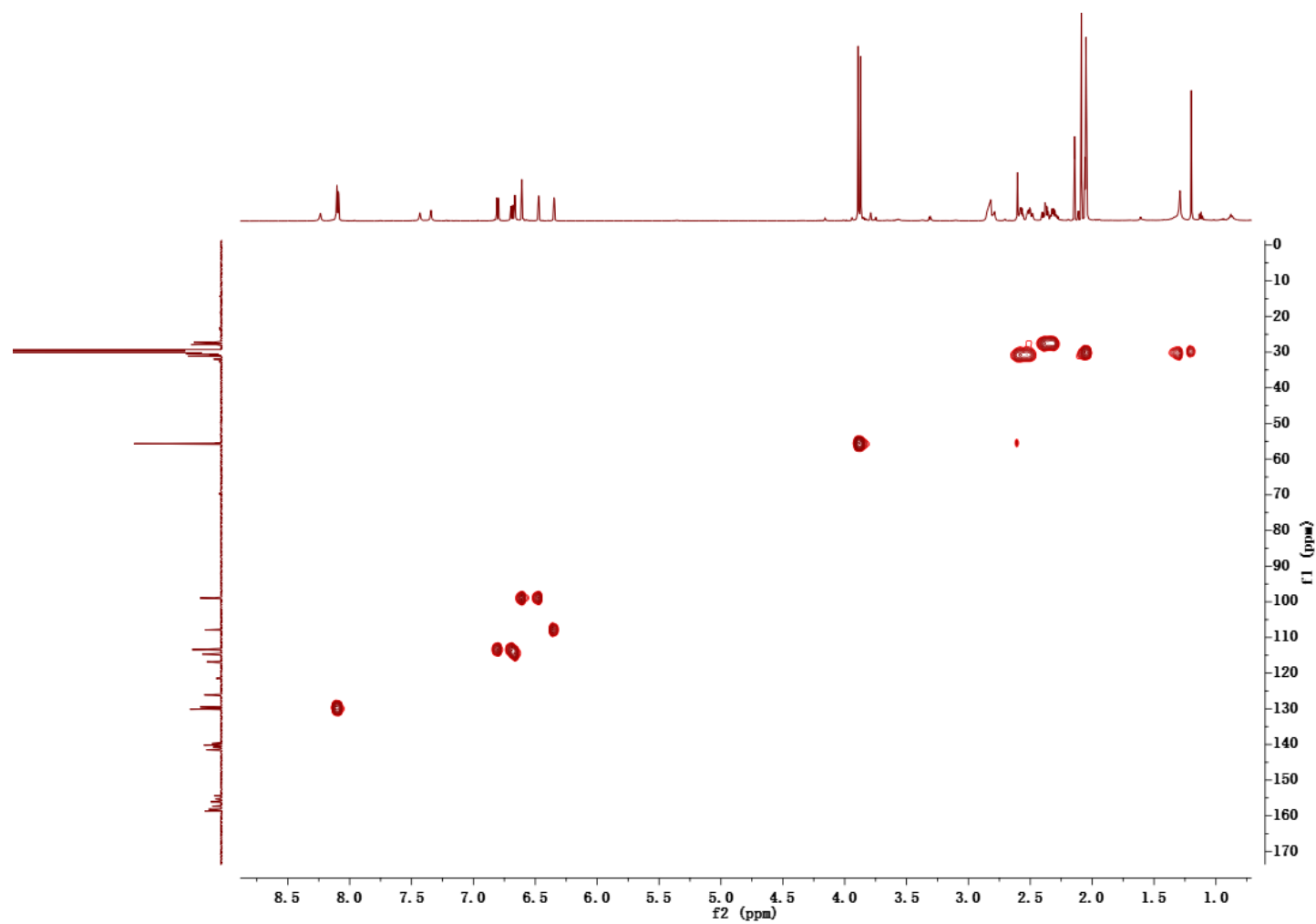


Figure S6. The HSQC spectrum of compound **1** in acetone- d_6 .

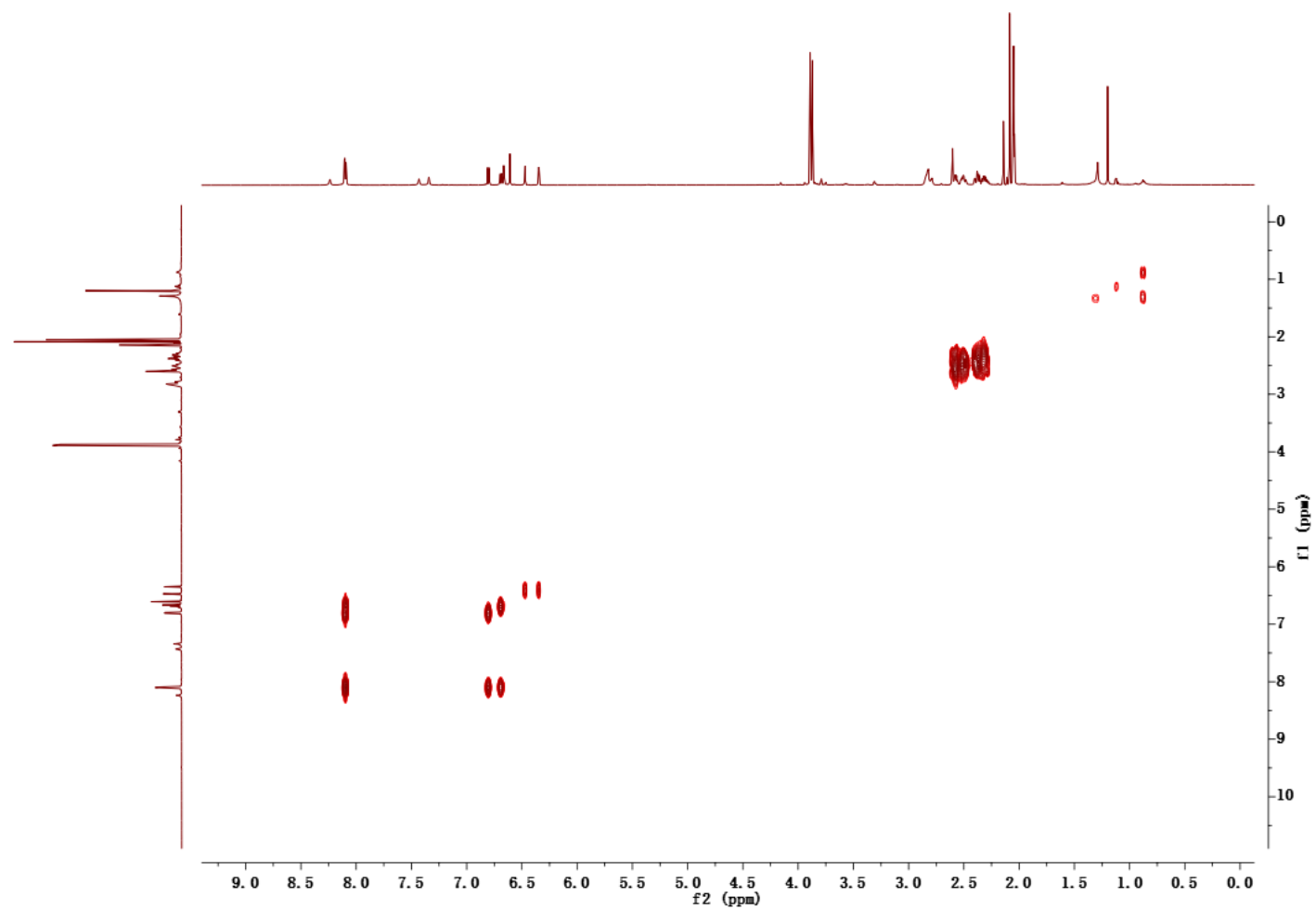


Figure S7. The ^1H - ^1H COSY spectrum of compound **1** in acetone- d_6 .

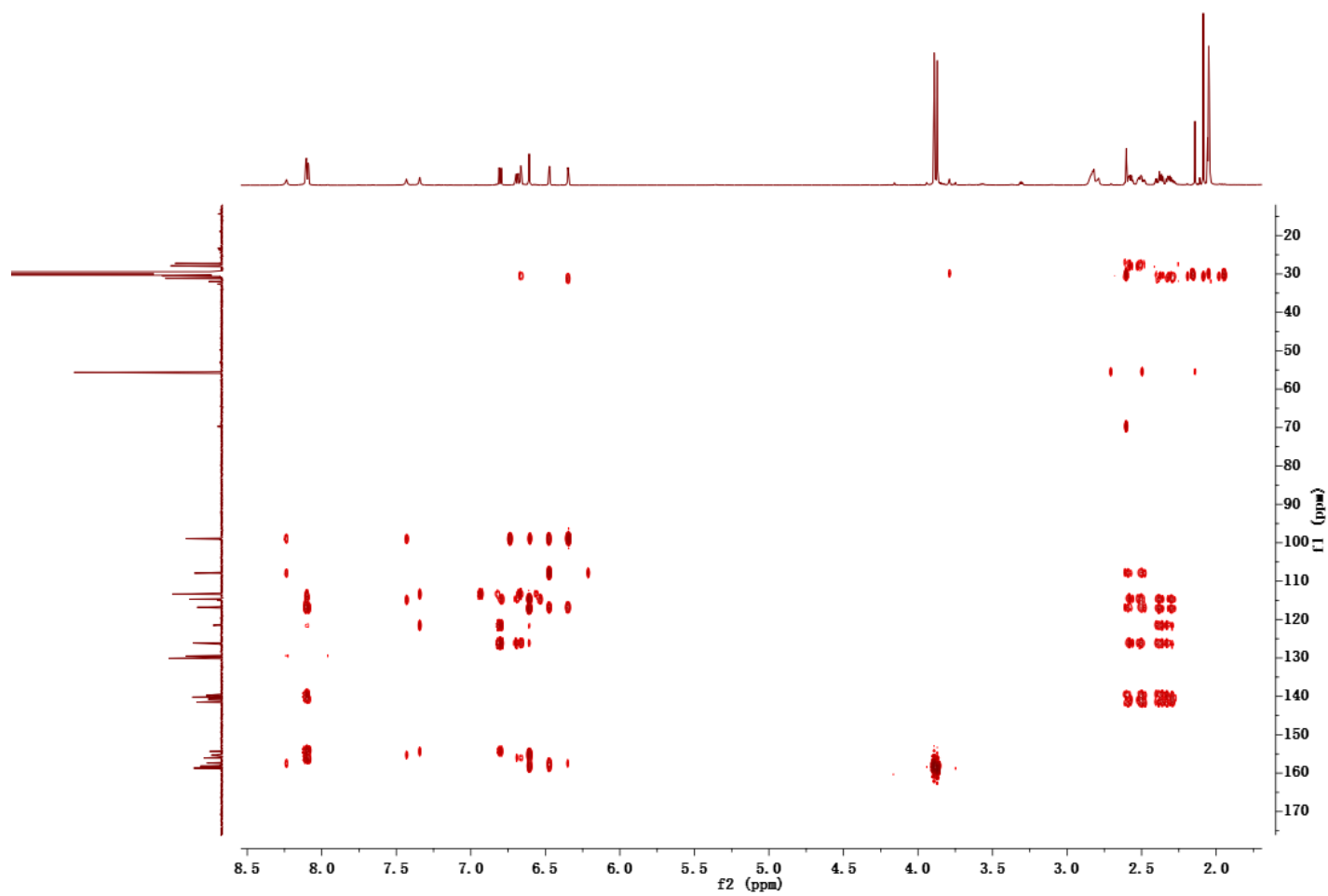


Figure S8. The HMBC spectrum of compound **1** in acetone- d_6 .

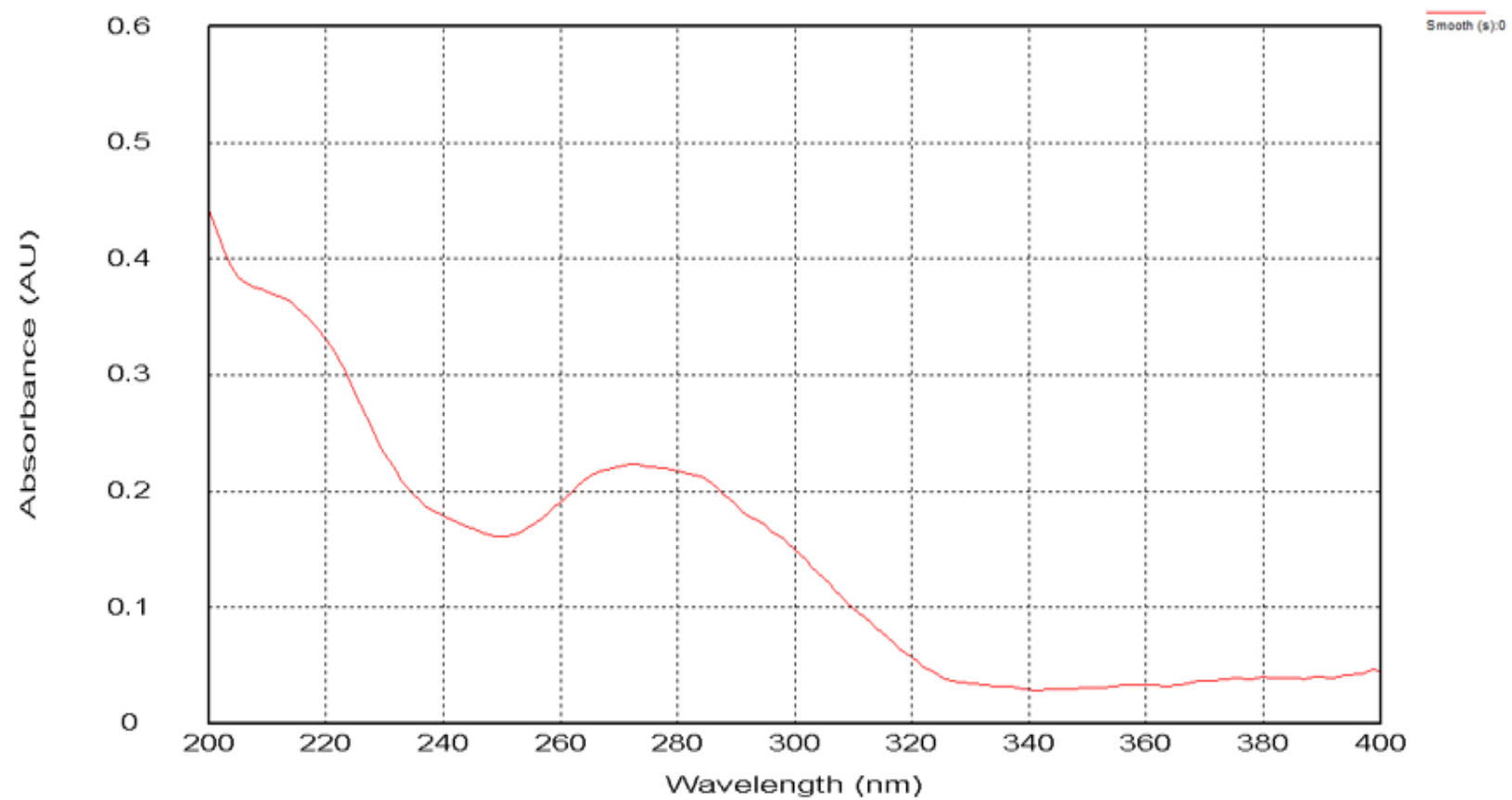


Figure S9. The UV spectrum of compound **2** in MeCN.

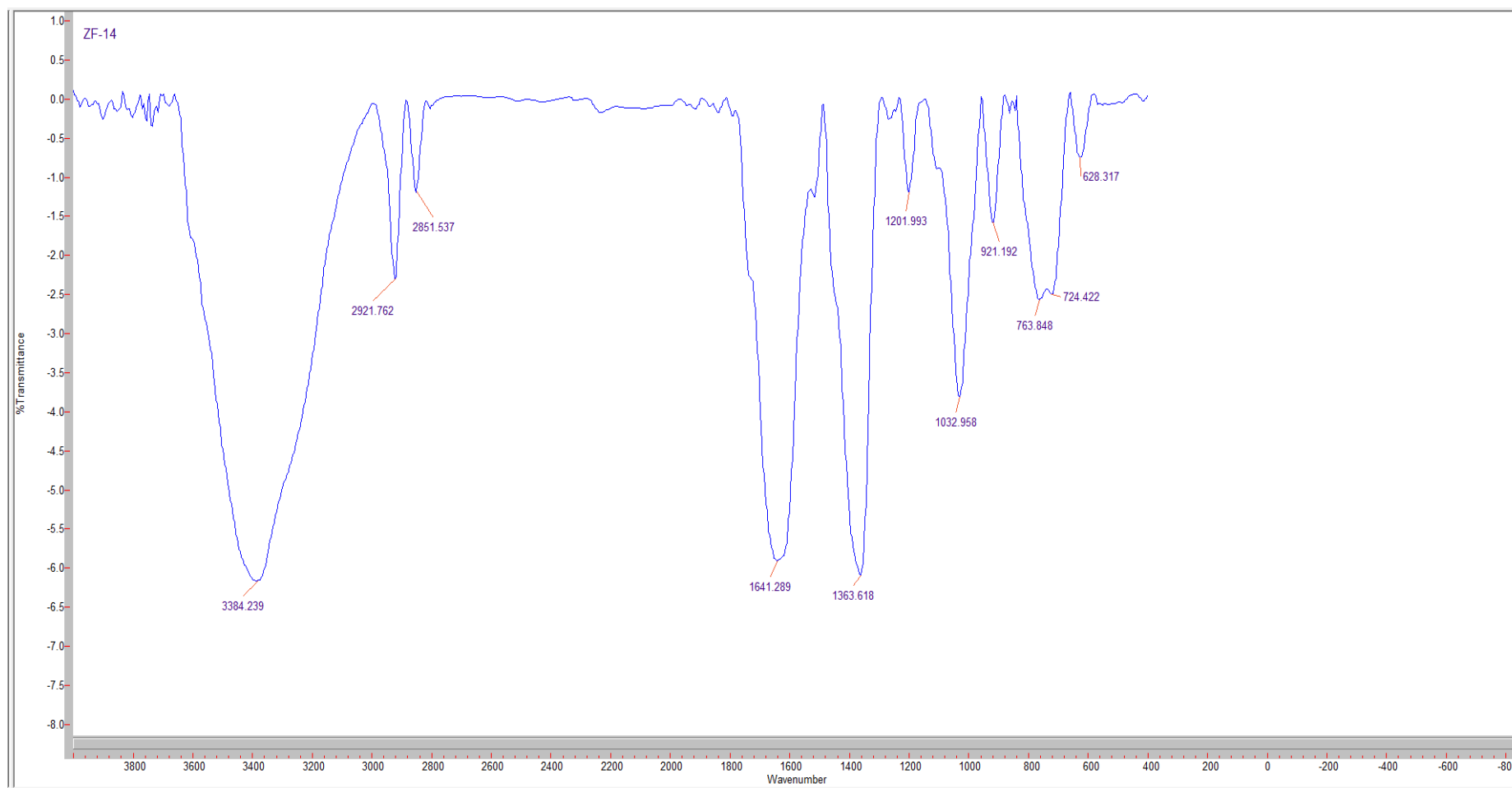


Figure S10. The IR spectrum of compound **2**.

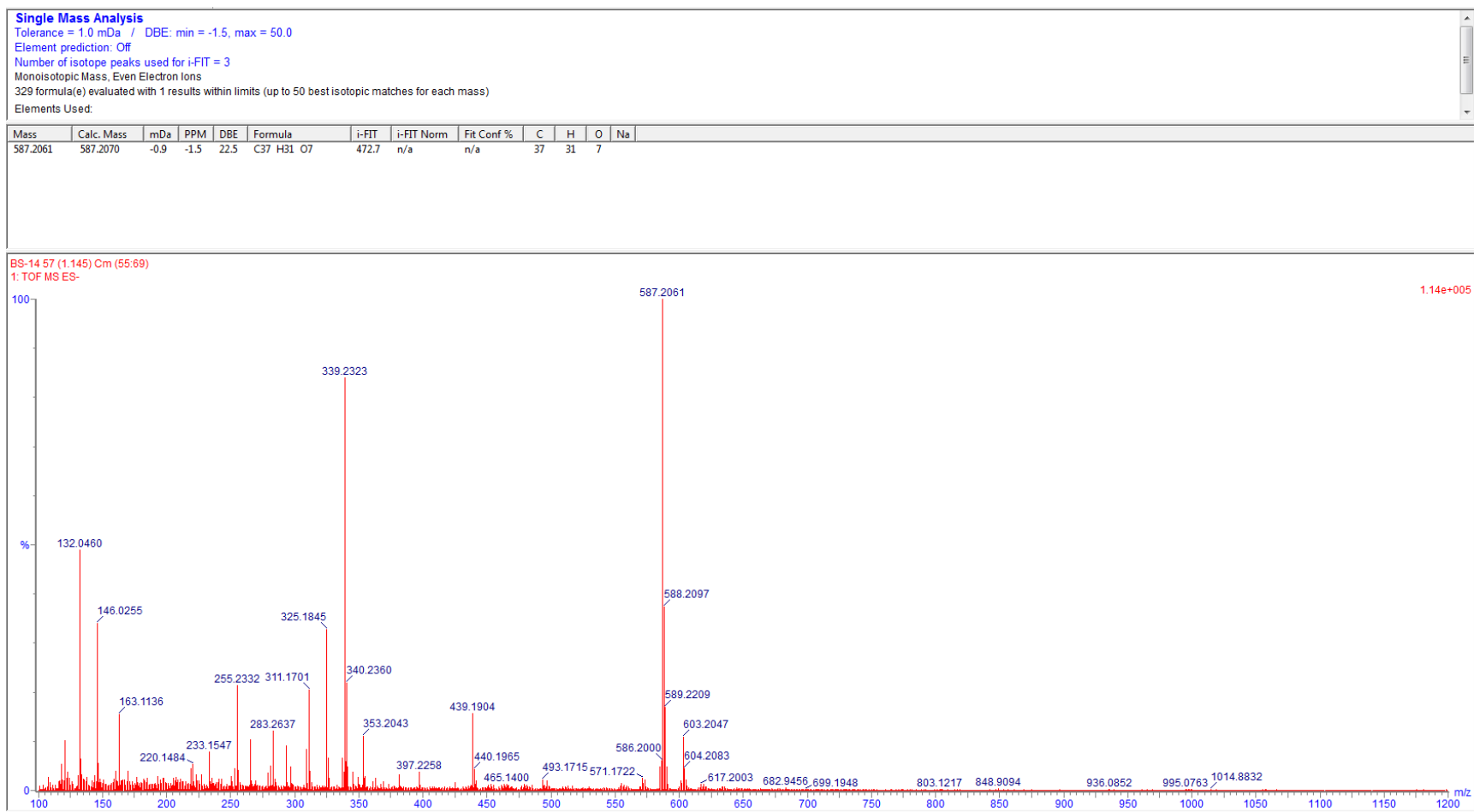
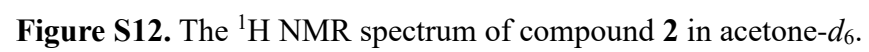


Figure S11. The (–)-HR-ESI-MS spectroscopic data of compound **2**.



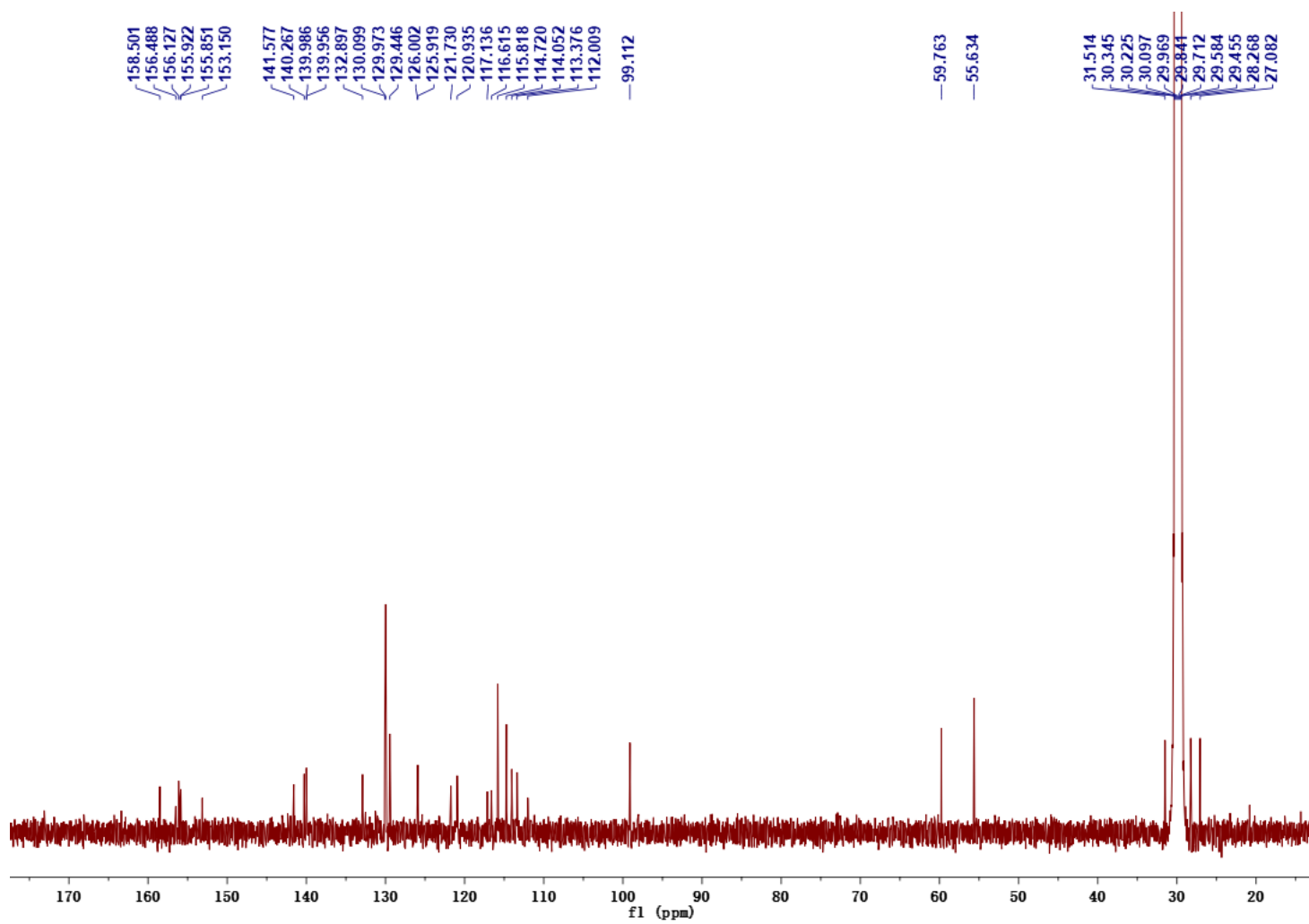


Figure S13. The ^{13}C NMR spectrum of compound **2** in acetone- d_6 .

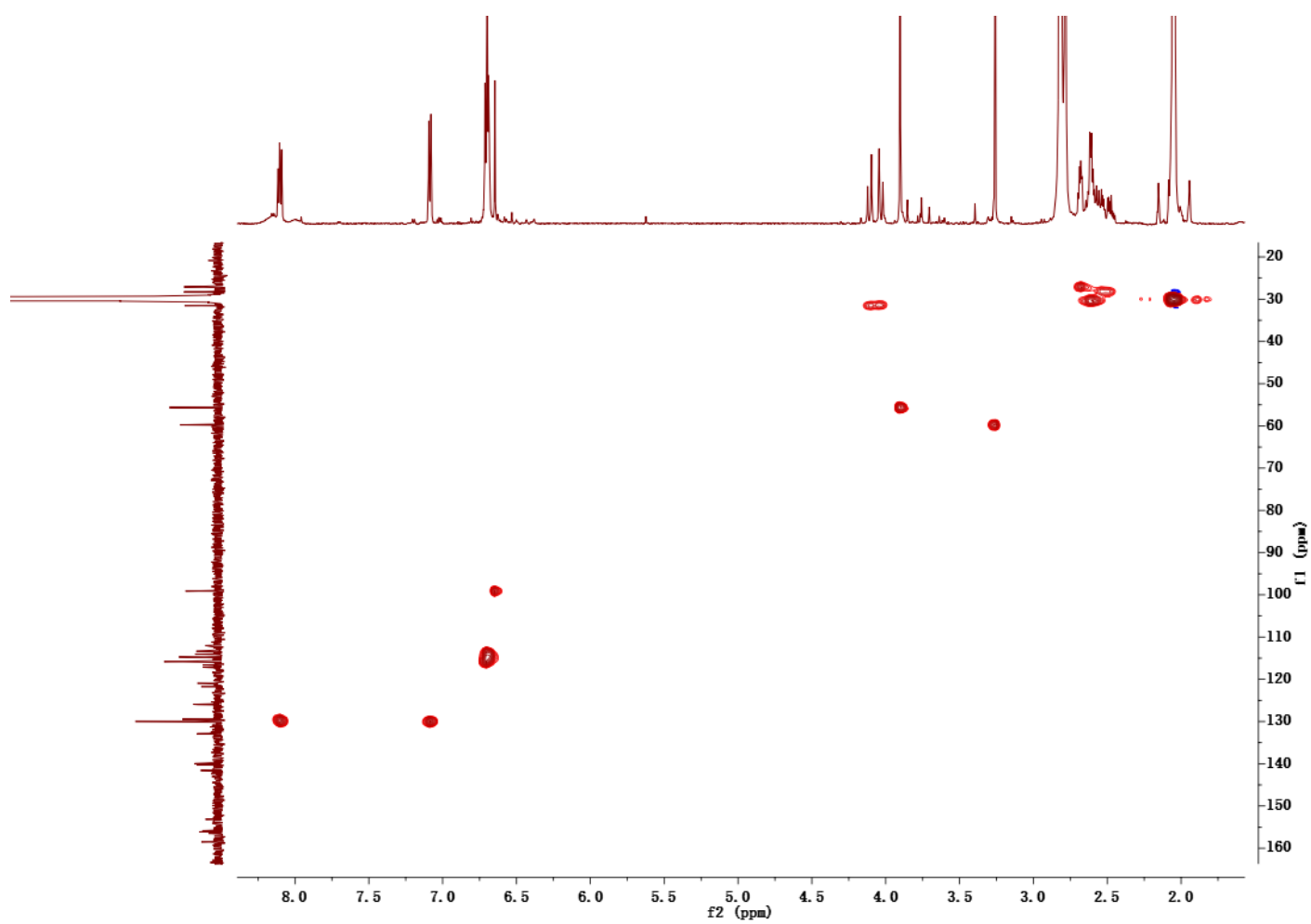


Figure S14. The HSQC spectrum of compound **2** in acetone- d_6 .

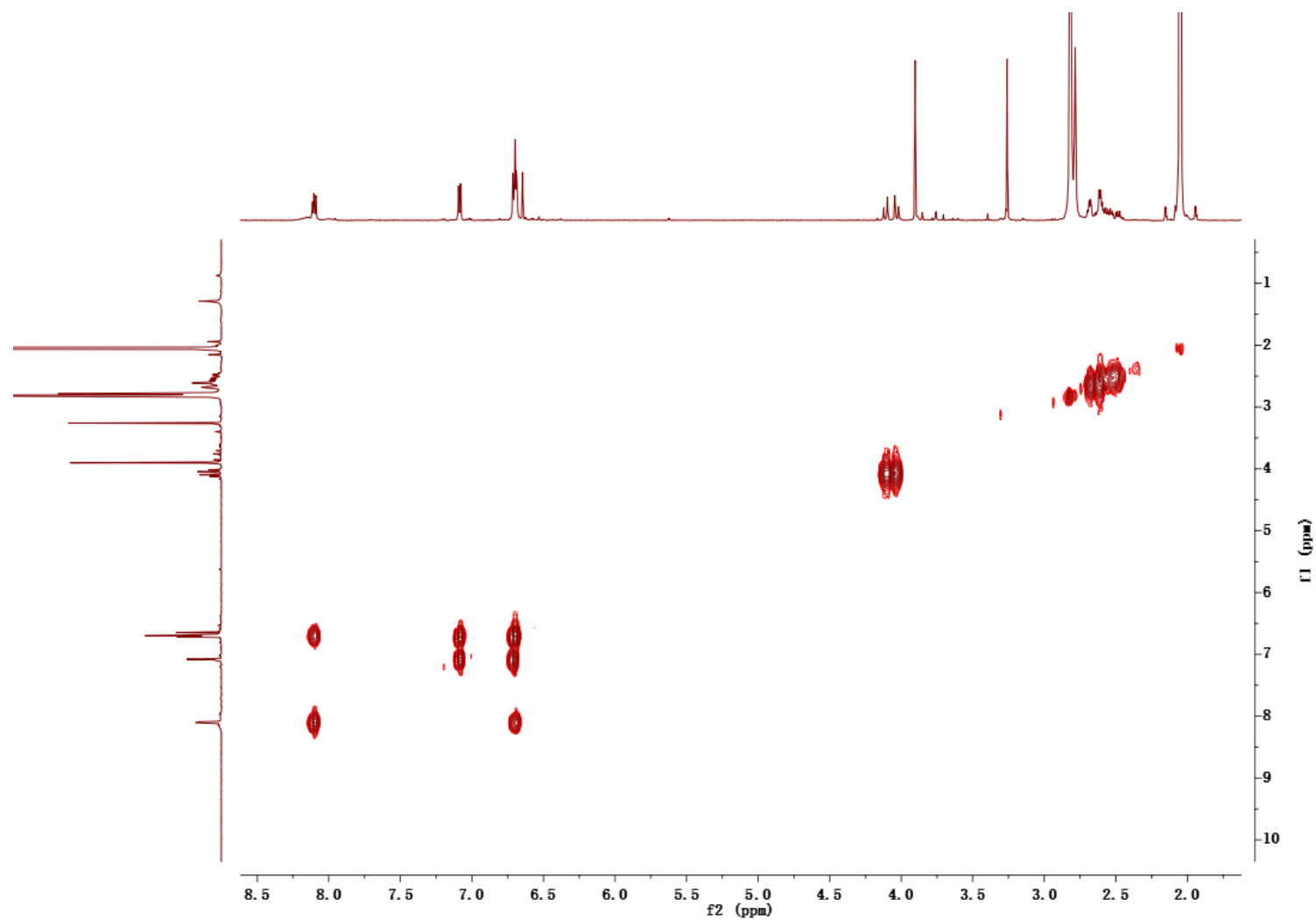


Figure S15. The ^1H - ^1H COSY spectrum of compound **2** in acetone- d_6 .

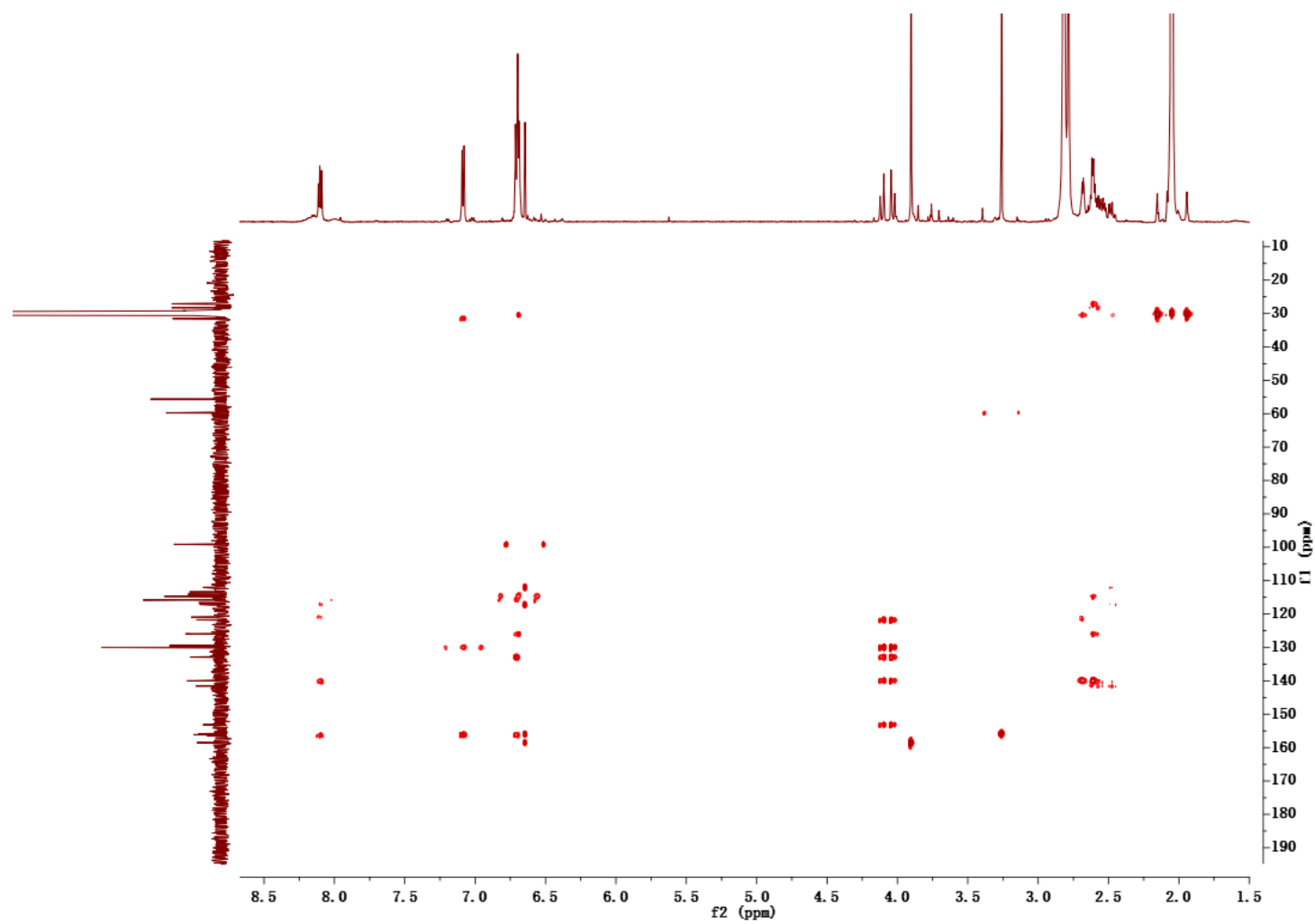
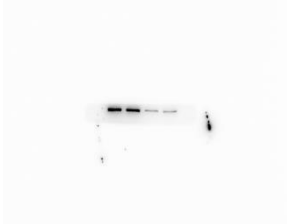









Figure S16. The HMBC spectrum of compound **2** in acetone- d_6 .

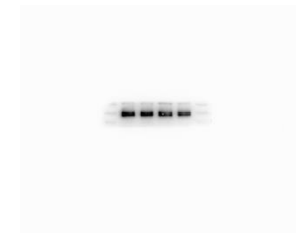
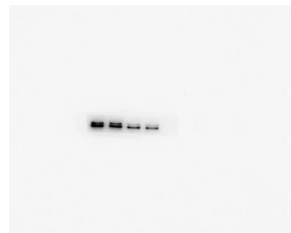
Table S1. The original western blots in three repetitions for Figure 6 in the paper.

	n ₁	n ₂	n ₃
p-AKT (Ser473)			
AKT			
p-MEK1/2 (Ser217/221)			

MEK1/2



p-ERK1/2
(Thr202/Tyr204)



ERK1/2



β -actin



Table S2. The original western blots in three repetitions for Figure 7 in the paper.

	n ₁	n ₂	n ₃
Bcl-2			
Bax			
β-actin			