

Supporting Information

Studies on Design, Synthesis of Marine Peptide analogues and their Promoting Proliferations on HUVECs and Zebrafish

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Figure S1: ^1H NMR (MeOD, 500 MHz) of Compound 1

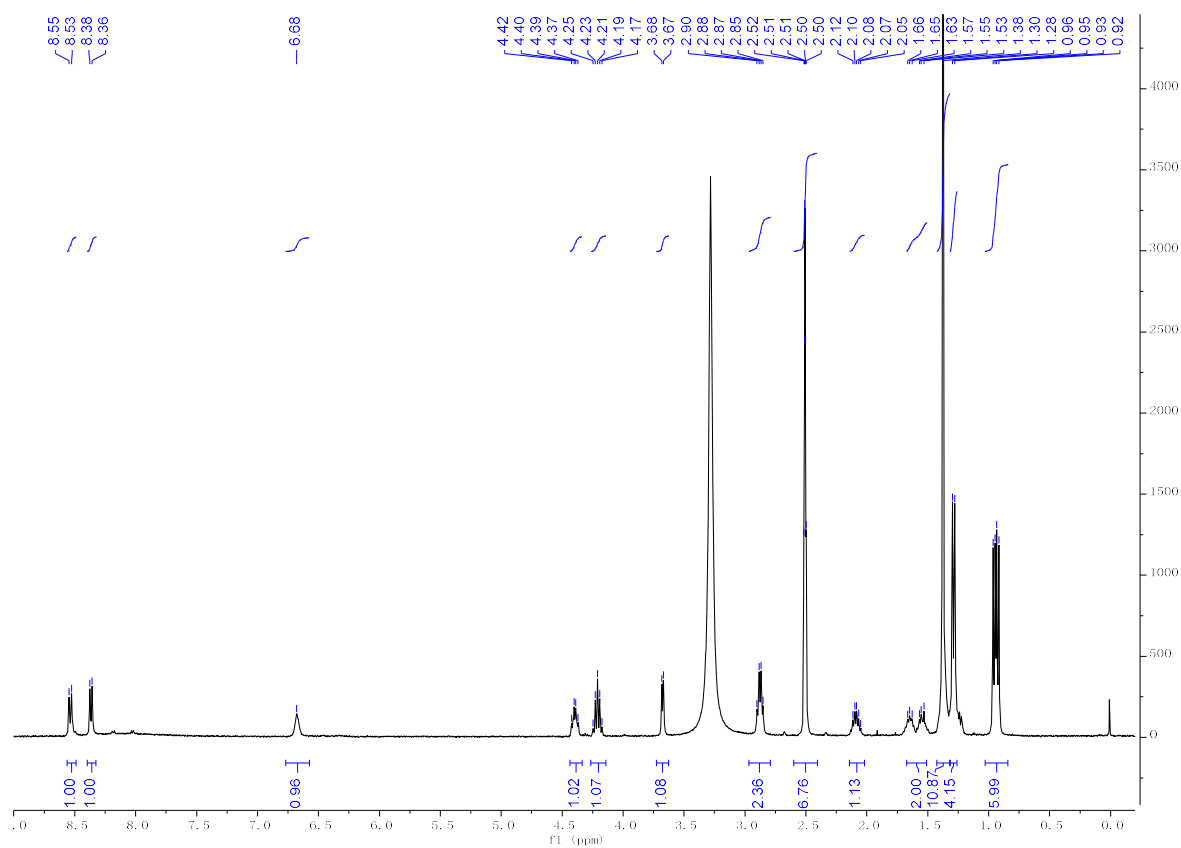


Figure S2: ^{13}C NMR (MeOD, 125 MHz) of Compound 1

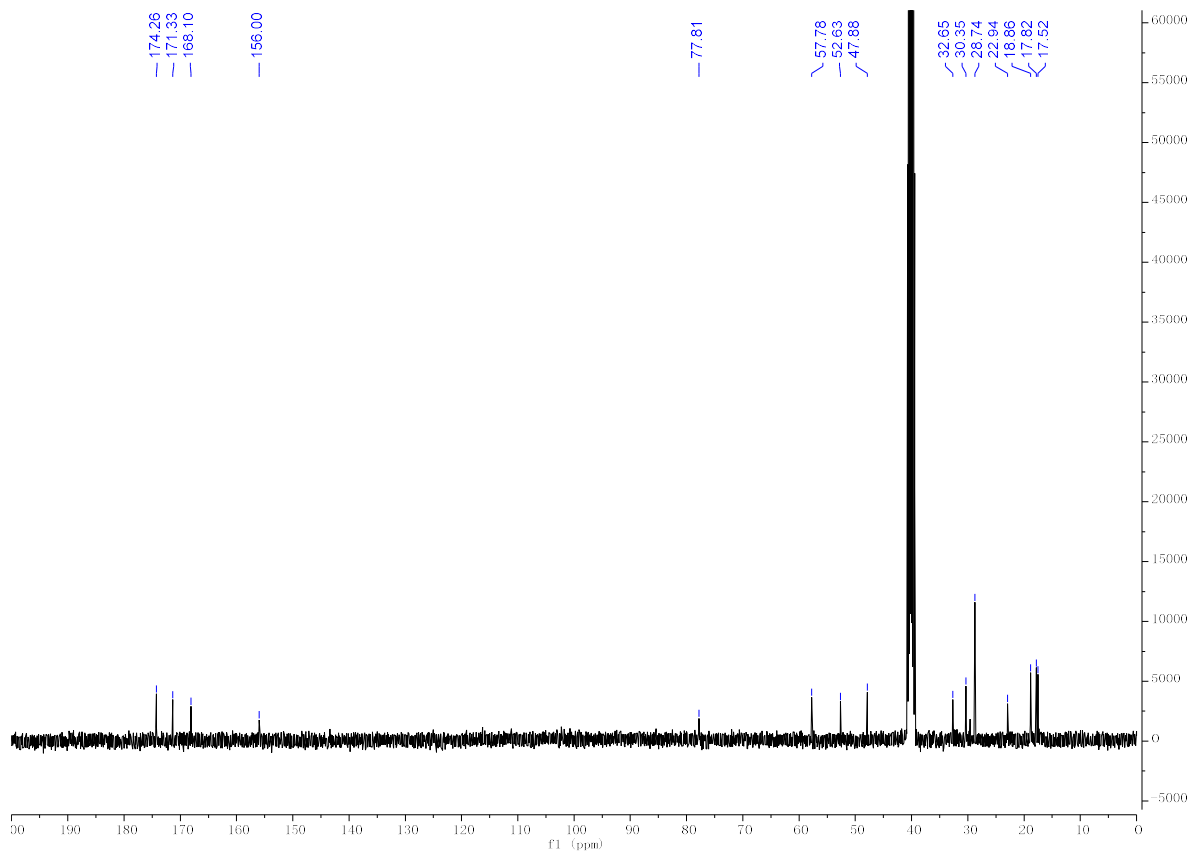


Figure S3: ^1H NMR (MeOD, 500 MHz) of Compound 2

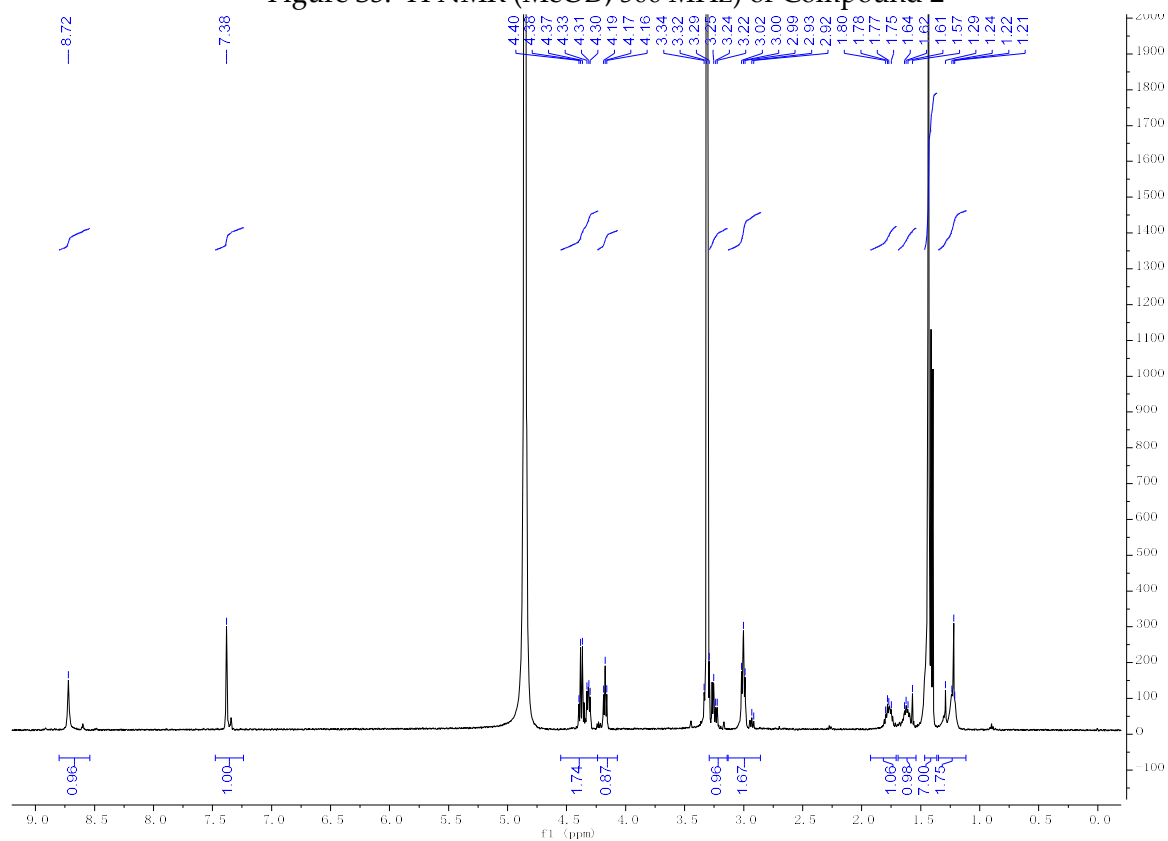


Figure S4: ^{13}C NMR (MeOD, 125 MHz) of Compound 2

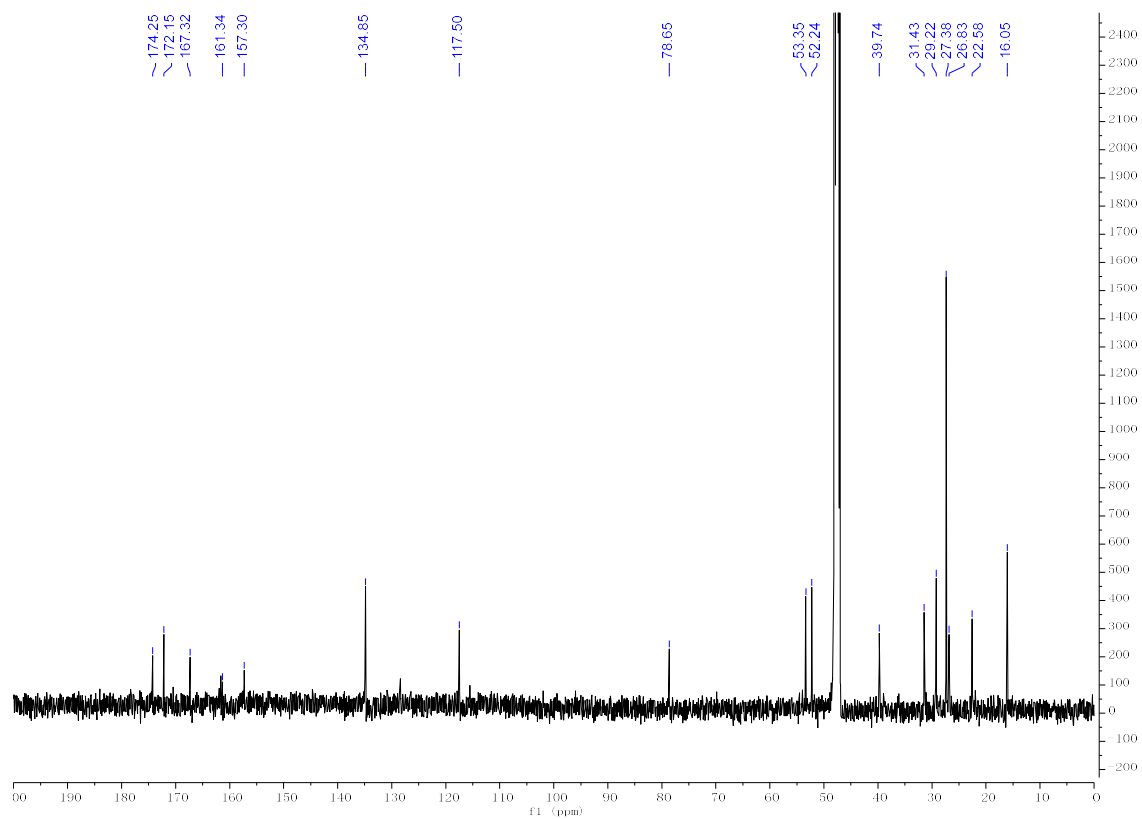


Figure S5: ^1H NMR (MeOD, 500 MHz) of Compound 3

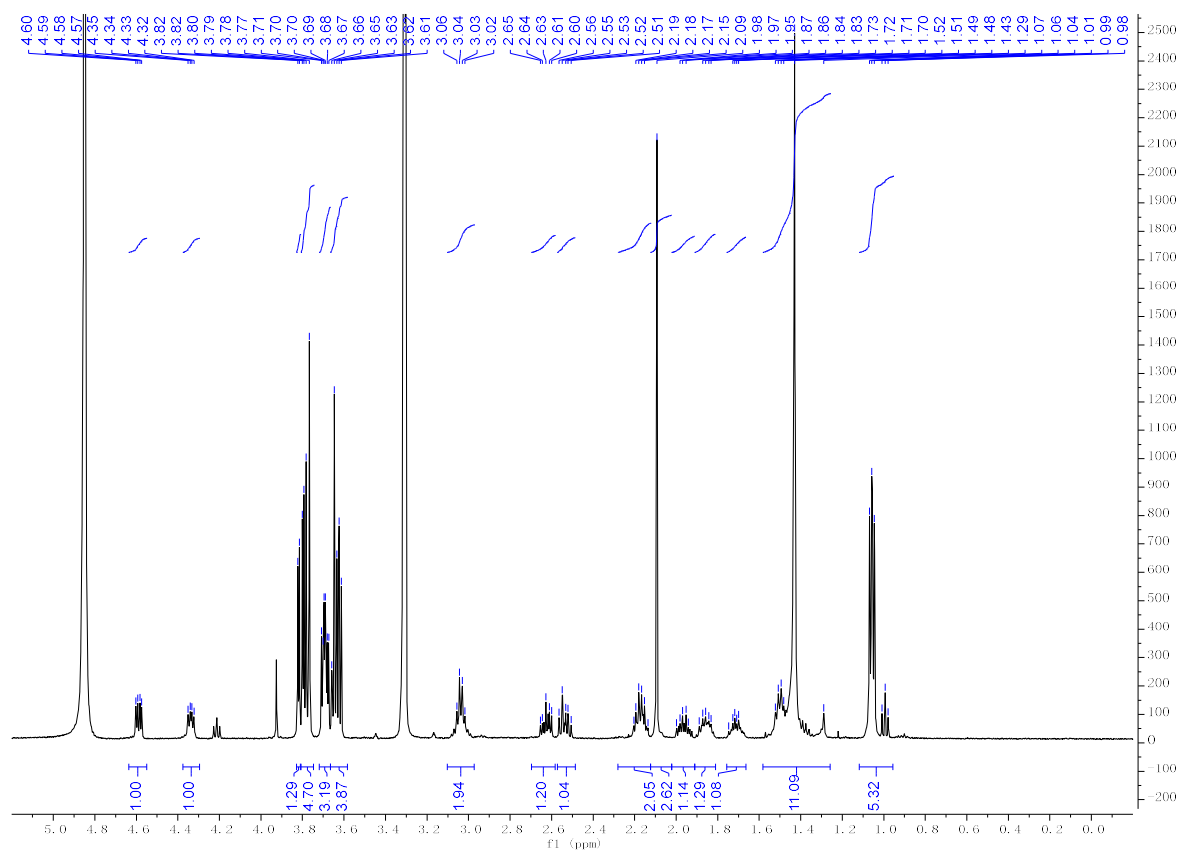


Figure S6: ^{13}C NMR (MeOD, 125 MHz) of Compound 3

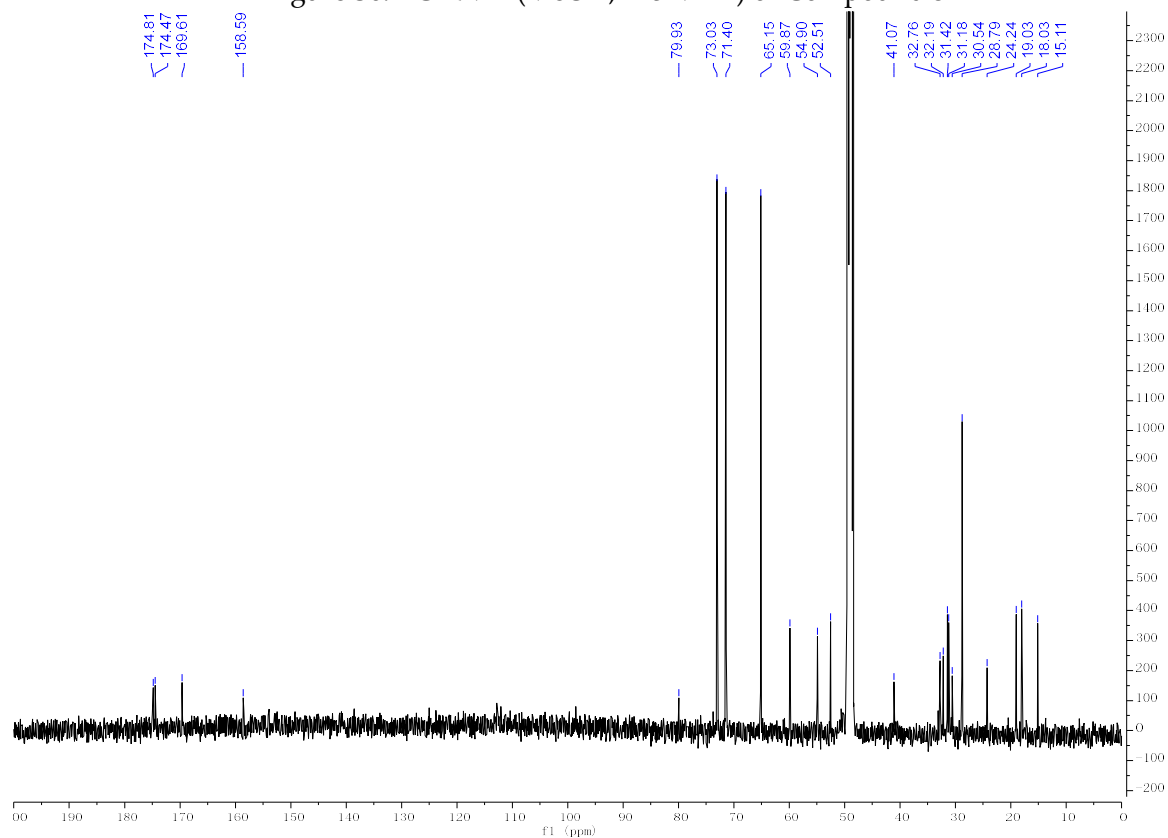


Figure S7: ^1H NMR (MeOD, 500 MHz) of Compound 4

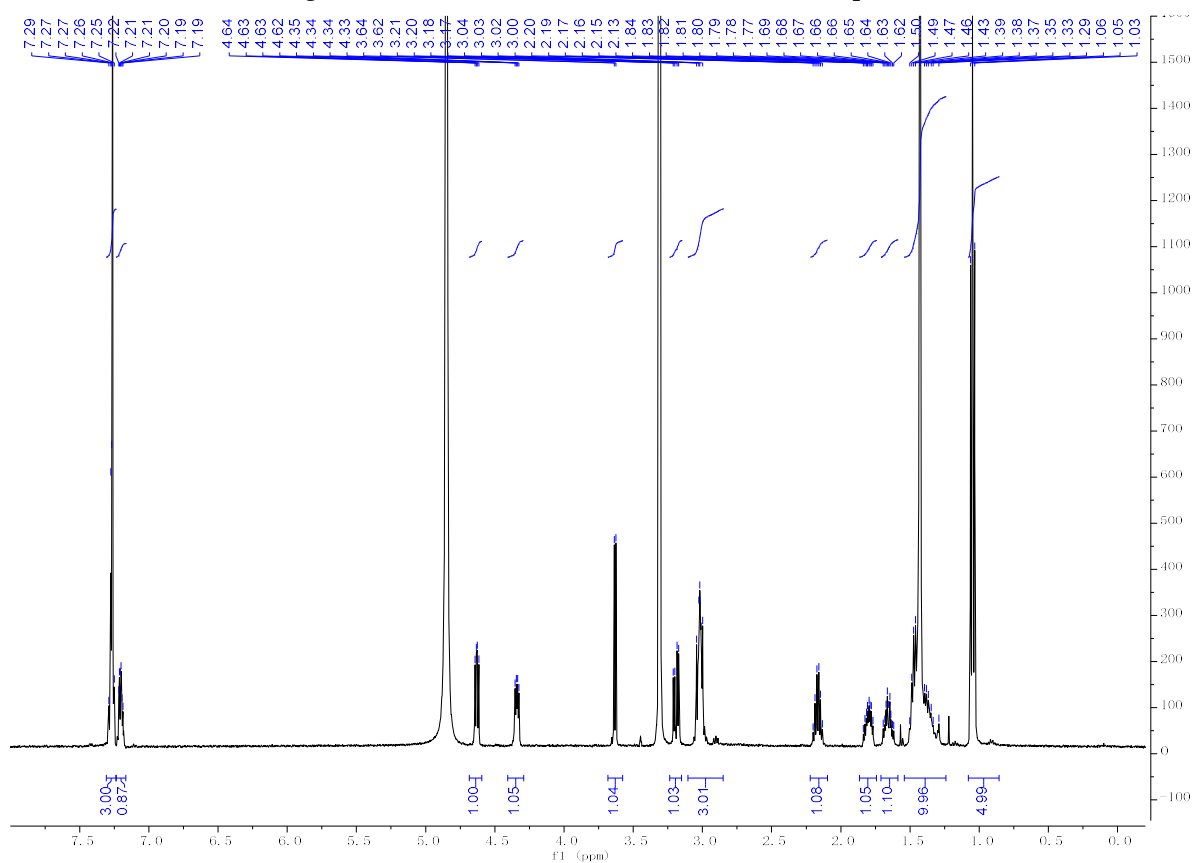


Figure S8: ^{13}C NMR (MeOD, 125 MHz) of Compound 4

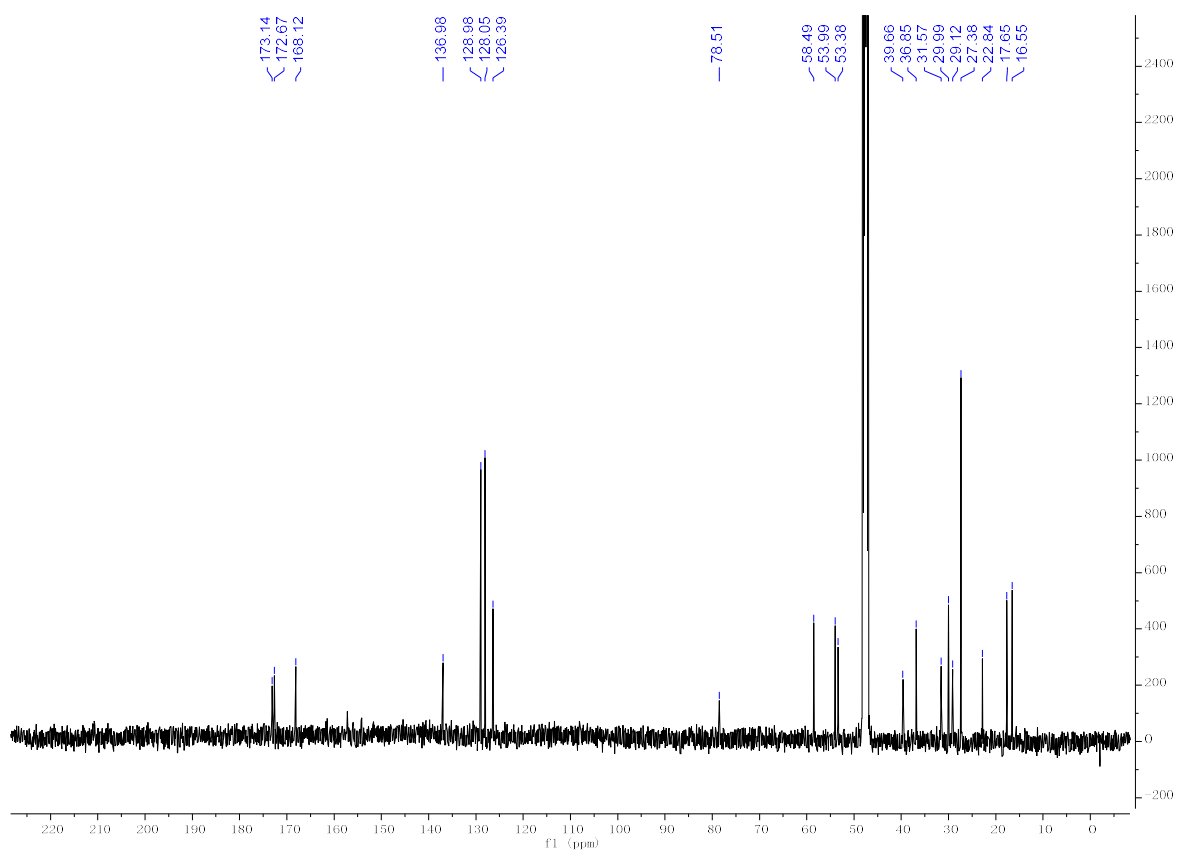


Figure S9: ^1H NMR (MeOD, 500 MHz) of Compound 5

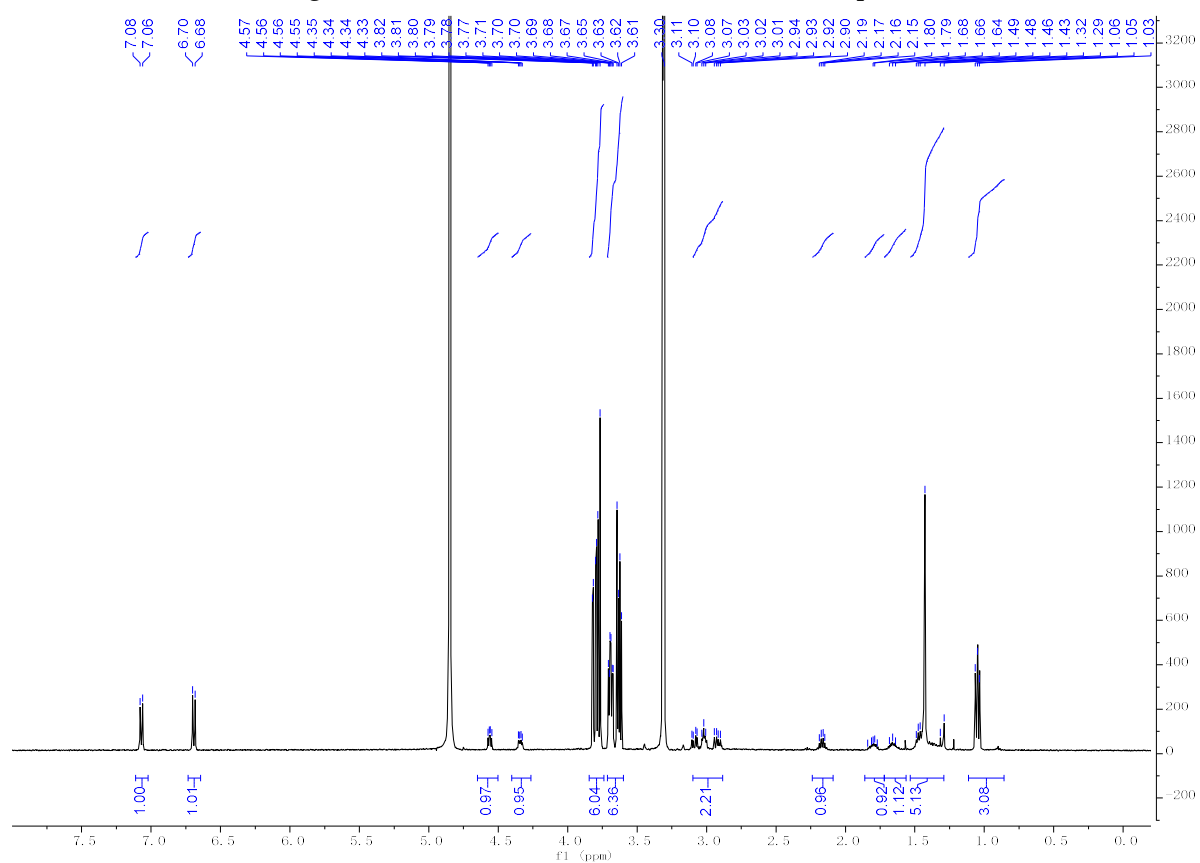


Figure S10: ^{13}C NMR (MeOD, 125 MHz) of Compound 5

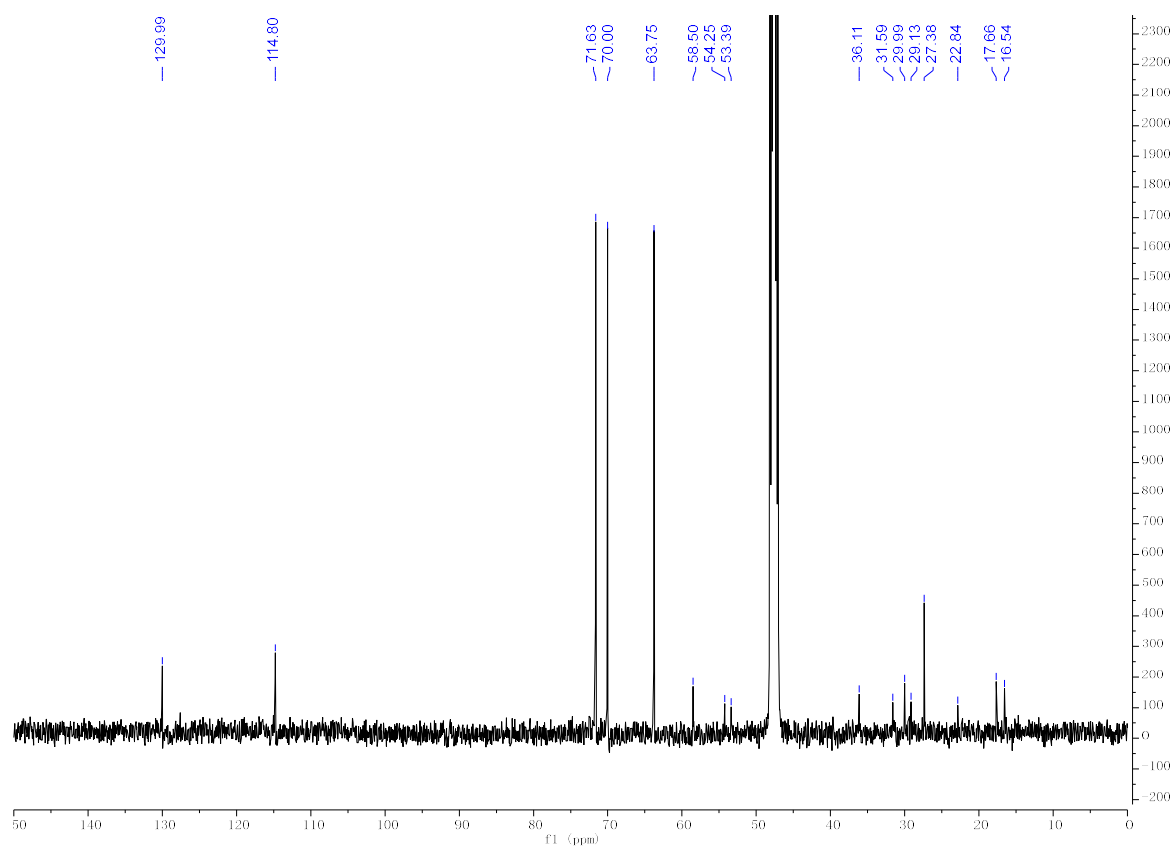


Figure S11: ^1H NMR (MeOD, 500 MHz) of Compound 6

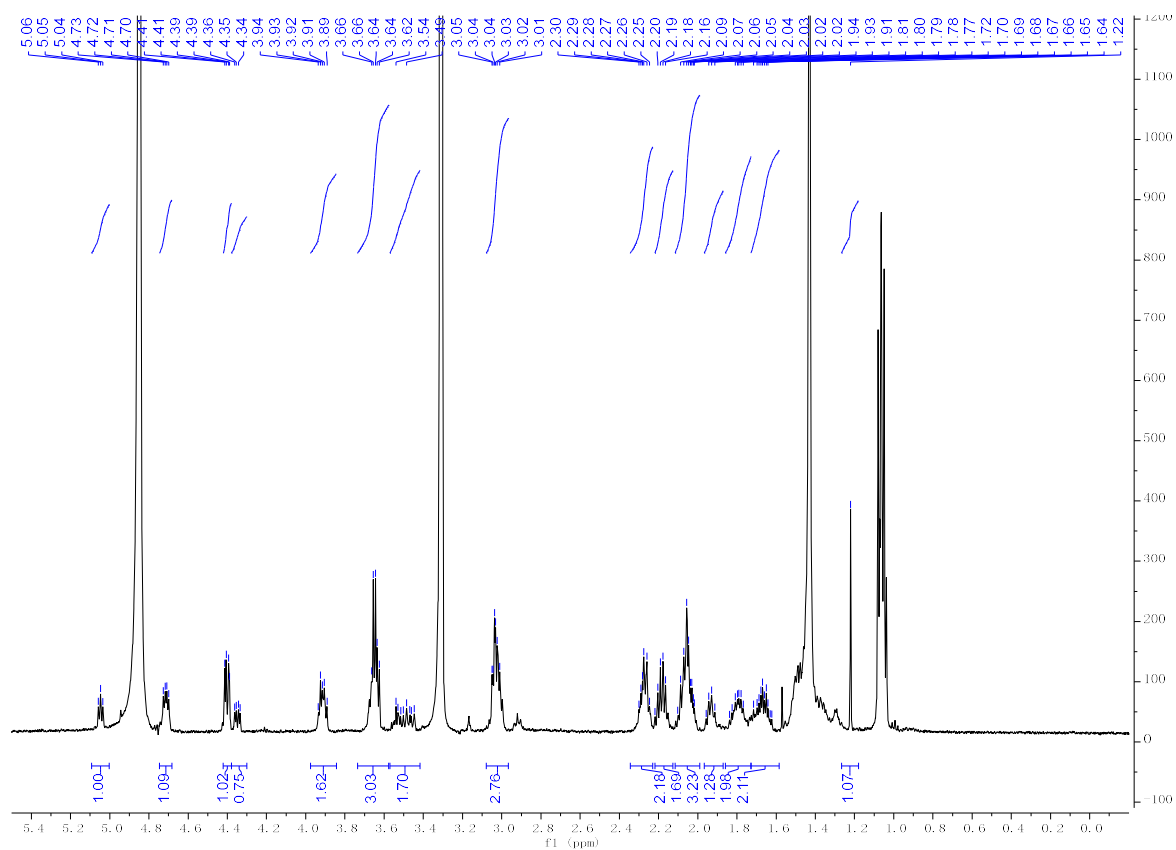


Figure S12: ^{13}C NMR (MeOD, 125 MHz) of Compound 6

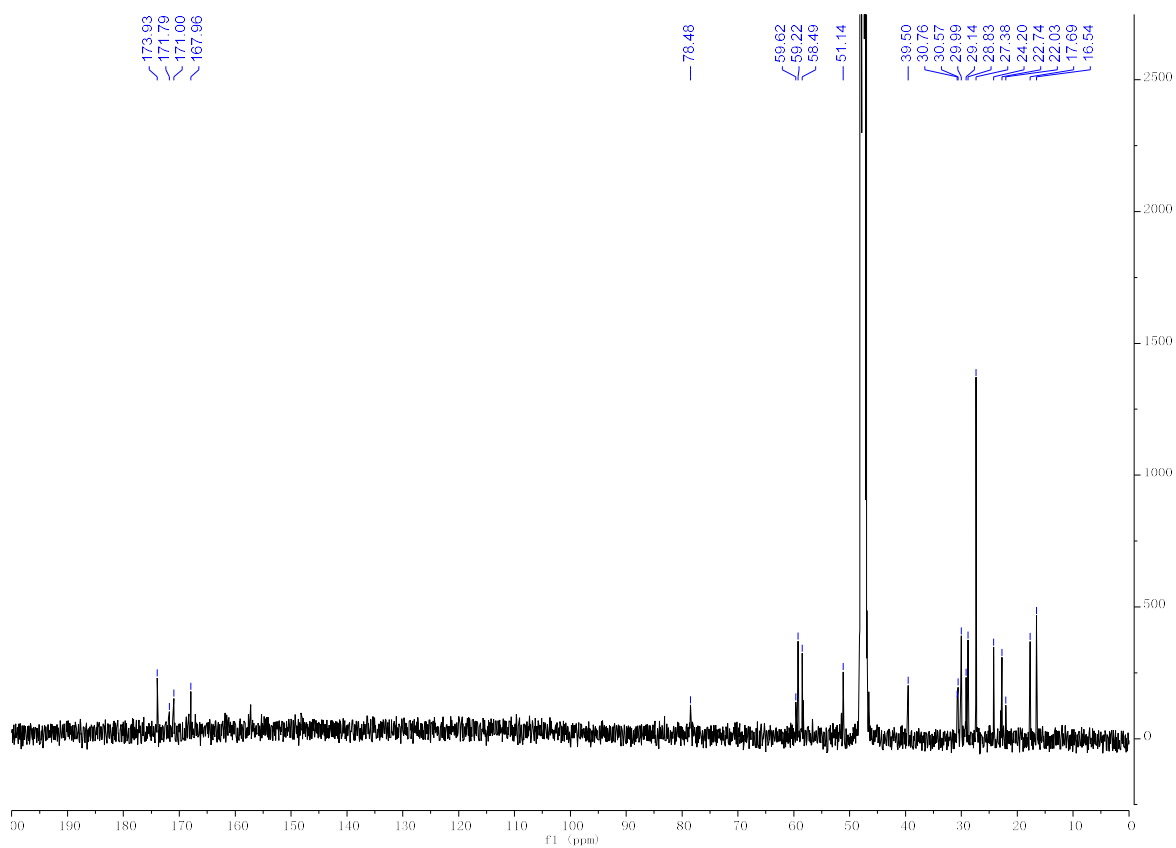


Figure S13: ^1H NMR (MeOD, 500 MHz) of Compound 7

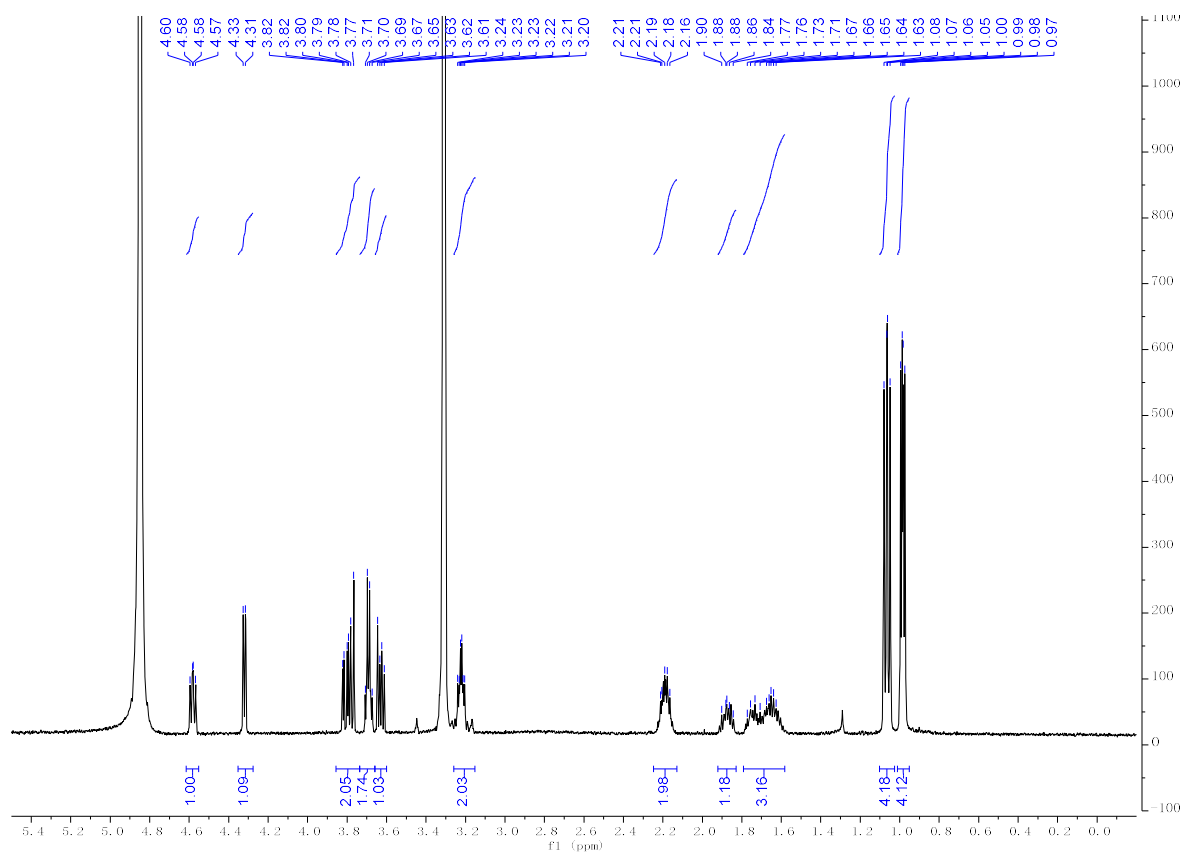


Figure S14: ^{13}C NMR (MeOD, 125 MHz) of Compound 7

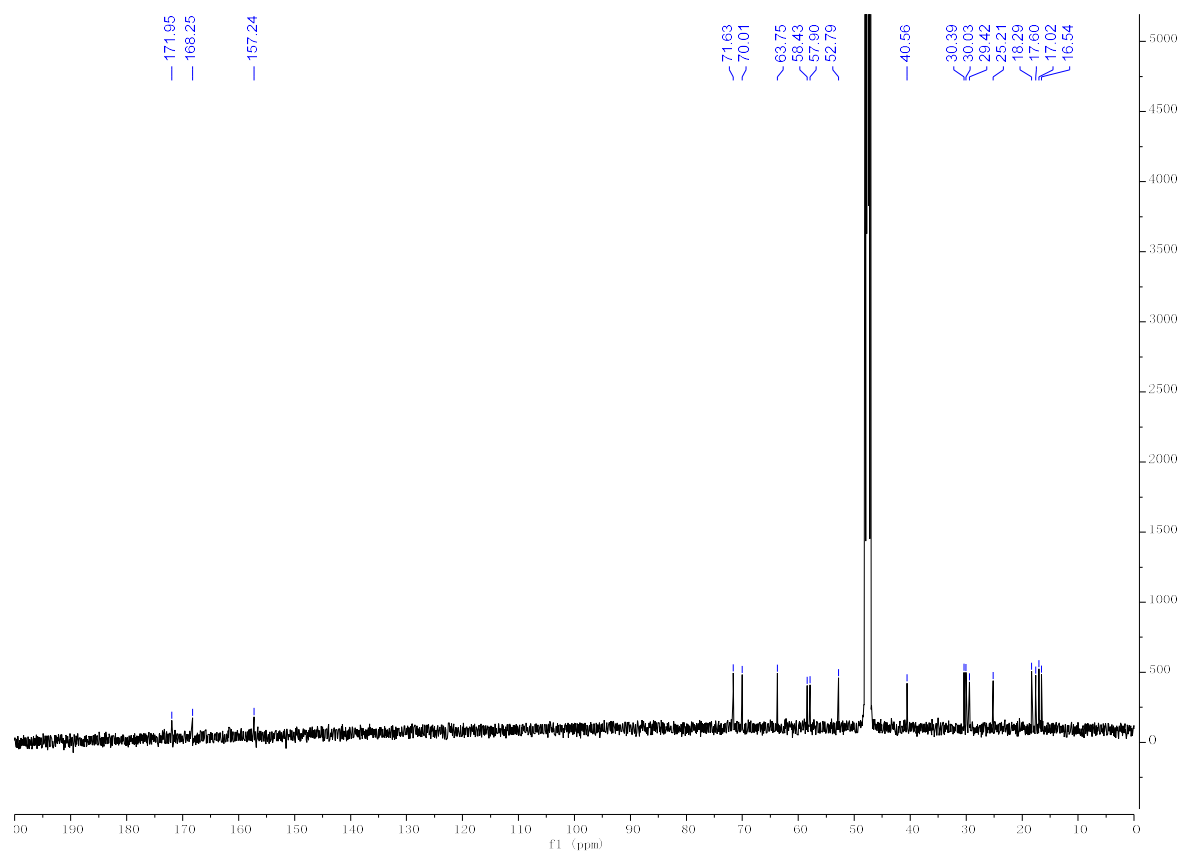
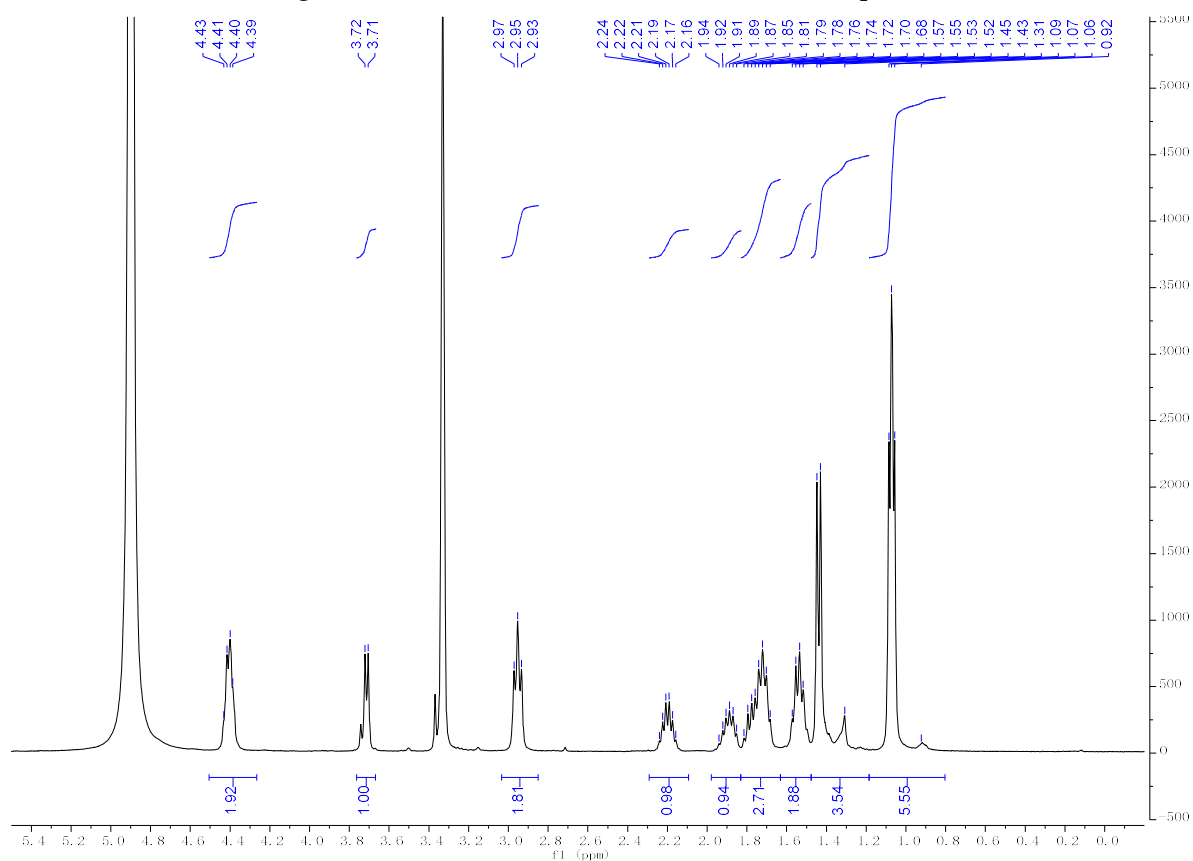


Figure S15: ^1H NMR (MeOD, 400 MHz) of Compound 8



The purities of all tested compounds were at least 95% and were determined by HPLC equipped with an UV detector at 210nm/254nm/280nm and 4.6*250mm(5 μ m) Chiralcel OD-H chiral column at 20°C. Ultrasonic degassing to all bought HPLC grade solvents for 30 minutes were done before used. Purity analysis were run with elution conditions. Elution condition: water: acetonitrile 40:60 (v/v), flow rate = 1 mL/min. It was stated if 0.1% acetic acid was added to the water. Table 1 is a summary of the purities and retention times of compounds

Table 1: Purities and retention times of all tested compounds.

Comp.	Elution condition	
	purity	Retention time / min
1	97.09	3.169
2	95.41	2.098
3	99.87	5.371
4	96.61	2.888
5	98.17	3.977
6	95.14	4.216
7	98.95	2.337
8	95.27	2.553

* the water phase was added 0.1% acetic acid.

Table 2: HPLC chromatography of compound 1

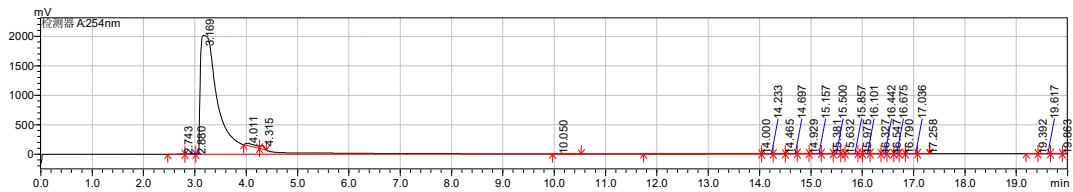


Table 3: HPLC chromatography of compound 2

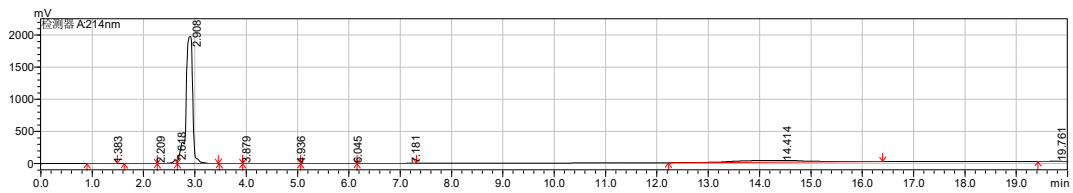


Table 4: HPLC chromatography of compound 3

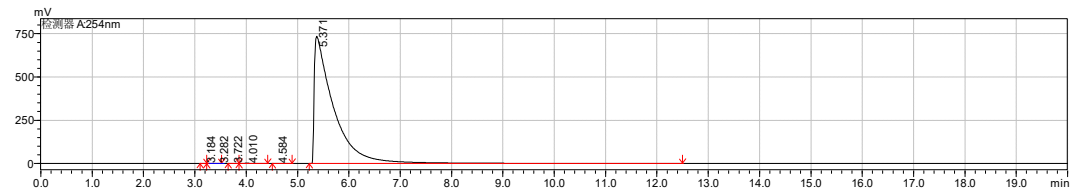


Table 5: HPLC chromatography of compound 4

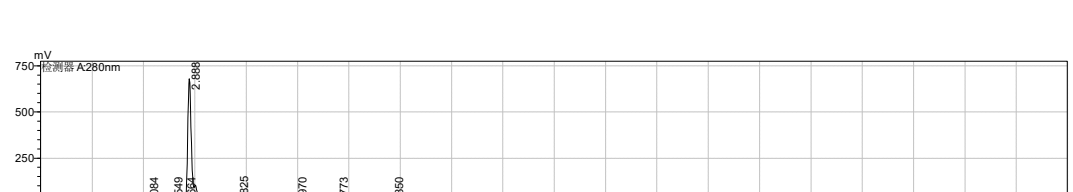


Table 6: HPLC chromatography of compound 5

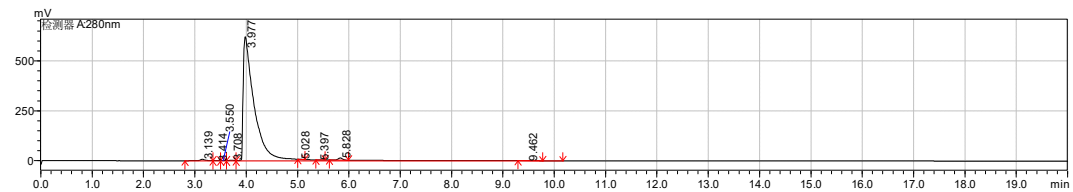


Table 7: HPLC chromatography of compound 6

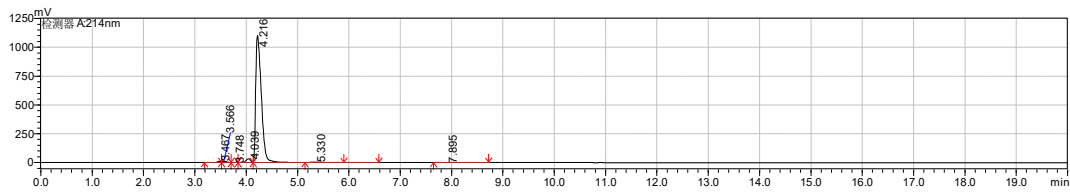


Table 8: HPLC chromatography of compound 7

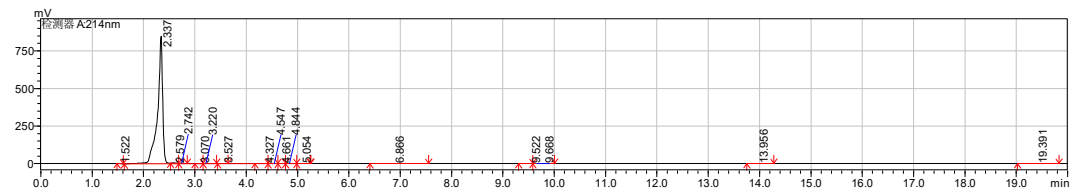


Table 9: HPLC chromatography of compound 8

