

Supporting Information

Synthesis and Anti-Inflammatory Activity of Ferulic Acid-Sesquiterpene Lactone Hybrids

Xiyan Duan ^{1,*}, Ning Liu ², Ke Lv ^{3,*}, Junqi Wang ¹, Mingyue Li ⁴, Yanwei Zhang ⁵, Xiaoguang Huo ⁵, Shiqi Bao ⁵, Zhuo Shen ⁵ and Xuemei Zhang ⁵

¹ School of Chemistry & Chemical Engineering, Henan University of Science and Technology, Luoyang 471003, China; 17513624203@163.com

² School of Nursing, Henan University of Science and Technology, Luoyang 471003, China; 9943548@haust.edu.cn

³ The State Key Laboratory of Medicinal Chemical Biology & College of Chemistry, Nankai University, Tianjin 300071, China

⁴ College of Pharmacy, Nankai University, Tianjin 300071, China; lmy1137534123@163.com

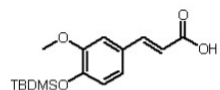
⁵ Accendatech Company, Ltd., Tianjin 300384, China; zyw12130123@163.com (Y.Z.); huoxg0323@163.com (X.H.); shiqi.bao@accendatech.com (S.B.); shenzhuo@accendatech.com (Z.S.); xuemei.zhang@accendatech.com (X.Z.)

* Correspondence: duanxiyan@tju.edu.cn (X.D.); lk2387723328@gmail.com (K.L.)

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2021. 05. 10MZ-2-90-b氢谱
MZ-2-90-b 1H CDCL3



Chemical Formula: $C_{16}H_{24}O_4Si$
Exact Mass: 308.1444

Chemical structure of compound 10 is shown in the top left. The ^1H NMR spectrum (CDCl₃) is displayed below, with chemical shifts (ppm) and integration values indicated.

Chemical Shift (ppm)	Integration
9.88	1.00
7.4-7.5	1.93
6.5-6.6	1.09
5.5	2.00
5.5	0.97
3.5	4.05
3.5	1.01
3.5	1.06
3.5	1.02
2.5-2.6	1.08
2.5-2.6	2.94
2.5-2.6	1.06
2.5-2.6	1.14
1.5-1.6	2.99
1.5-1.6	1.30
1.5-1.6	2.98
1.5-1.6	9.29
0.7-0.8	6.38
0.16	

Figure S2 ¹H NMR spectra of compound 9

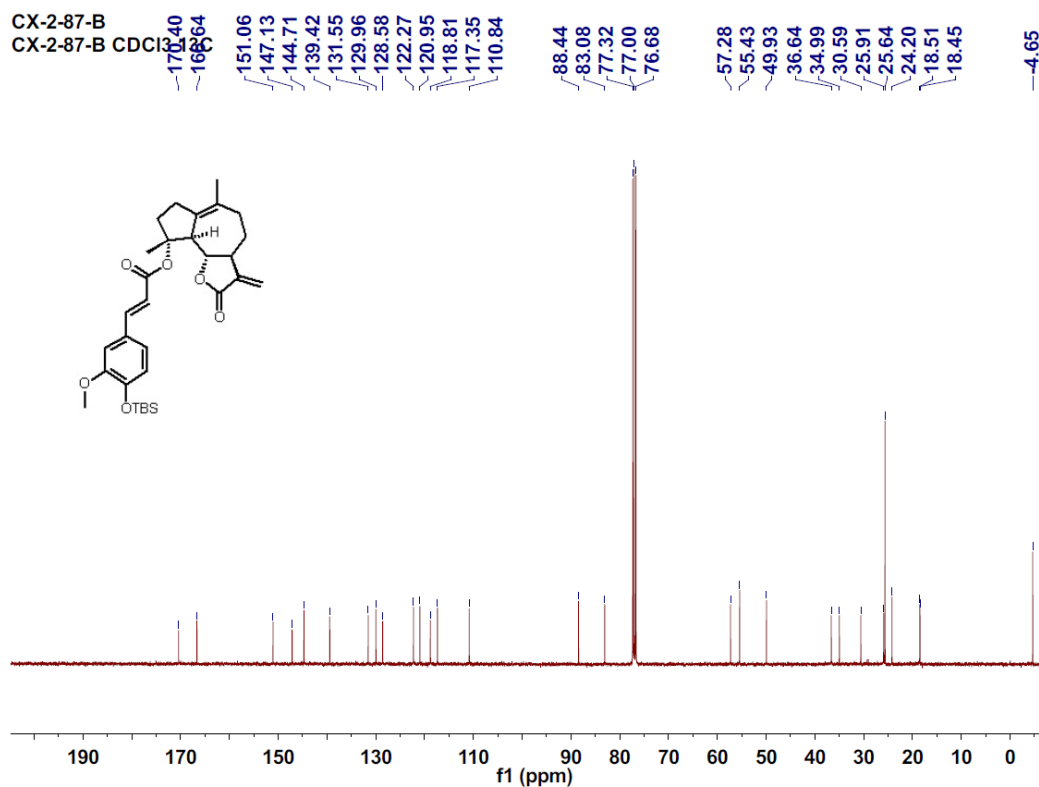


Figure S3 ¹³C NMR spectra of compound 9

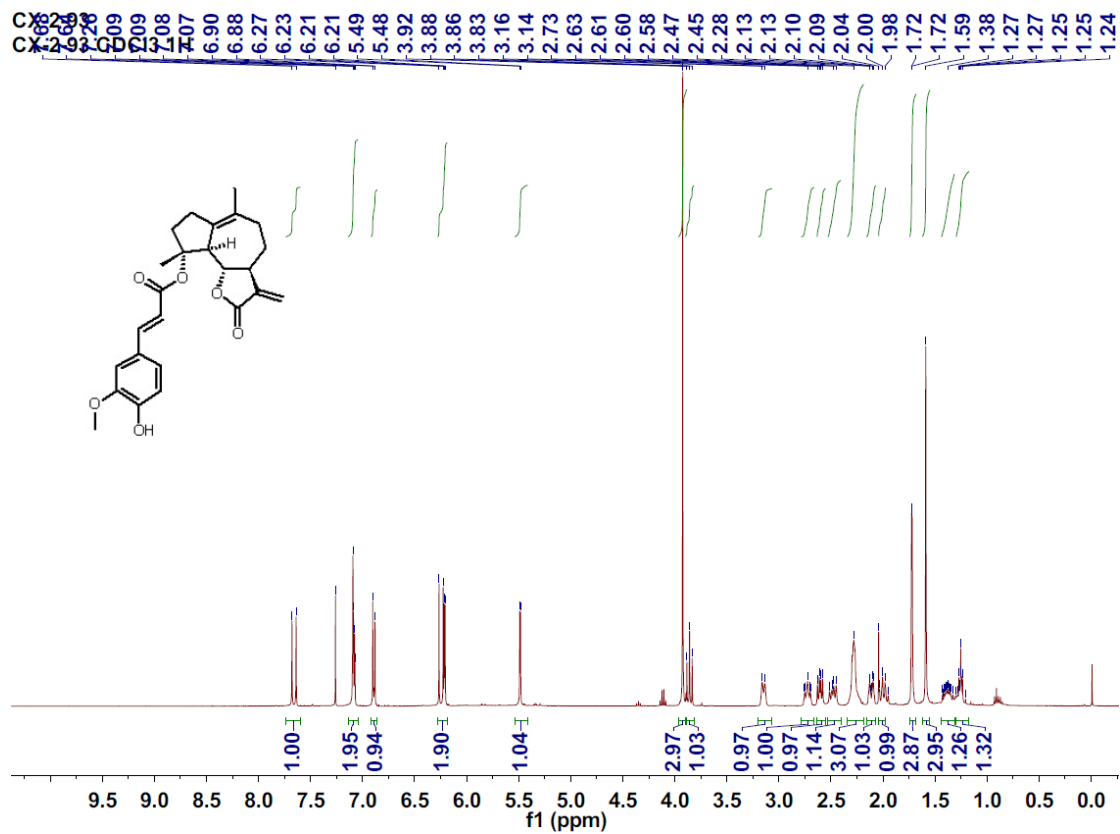


Figure S4 ¹H NMR spectra of compound 1

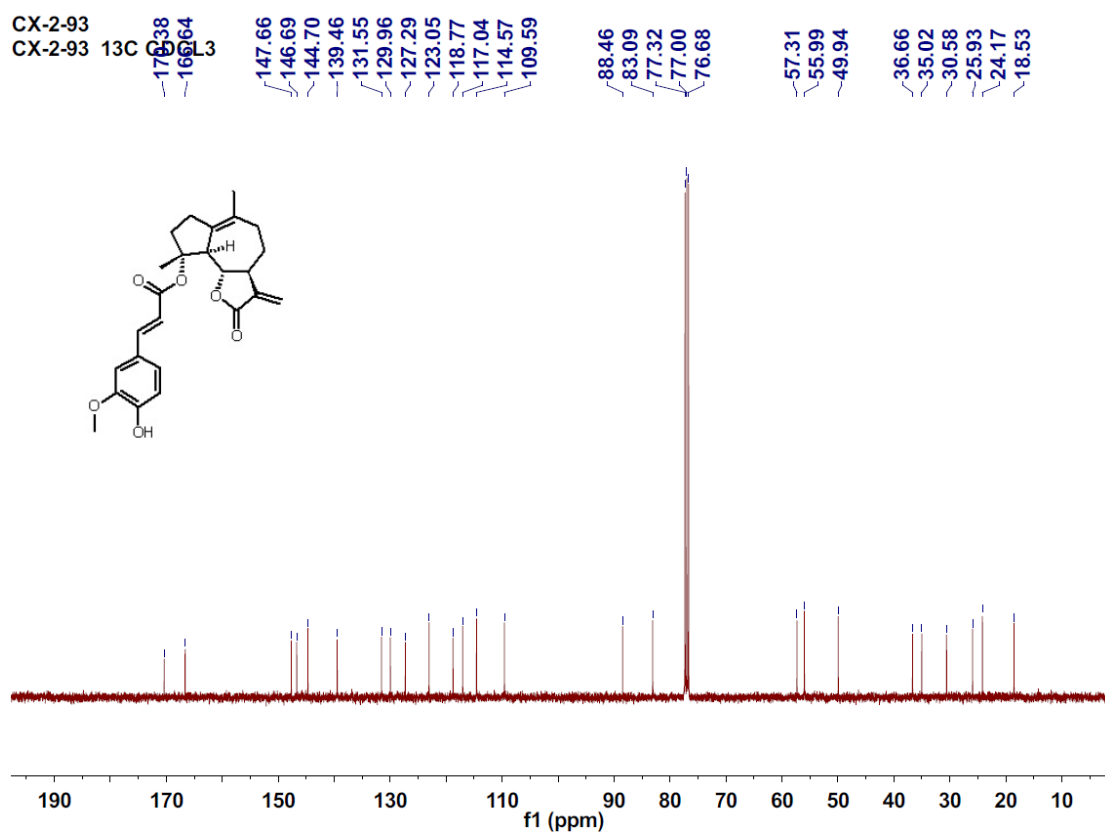


Figure S5 ¹³C NMR spectra of compound 1

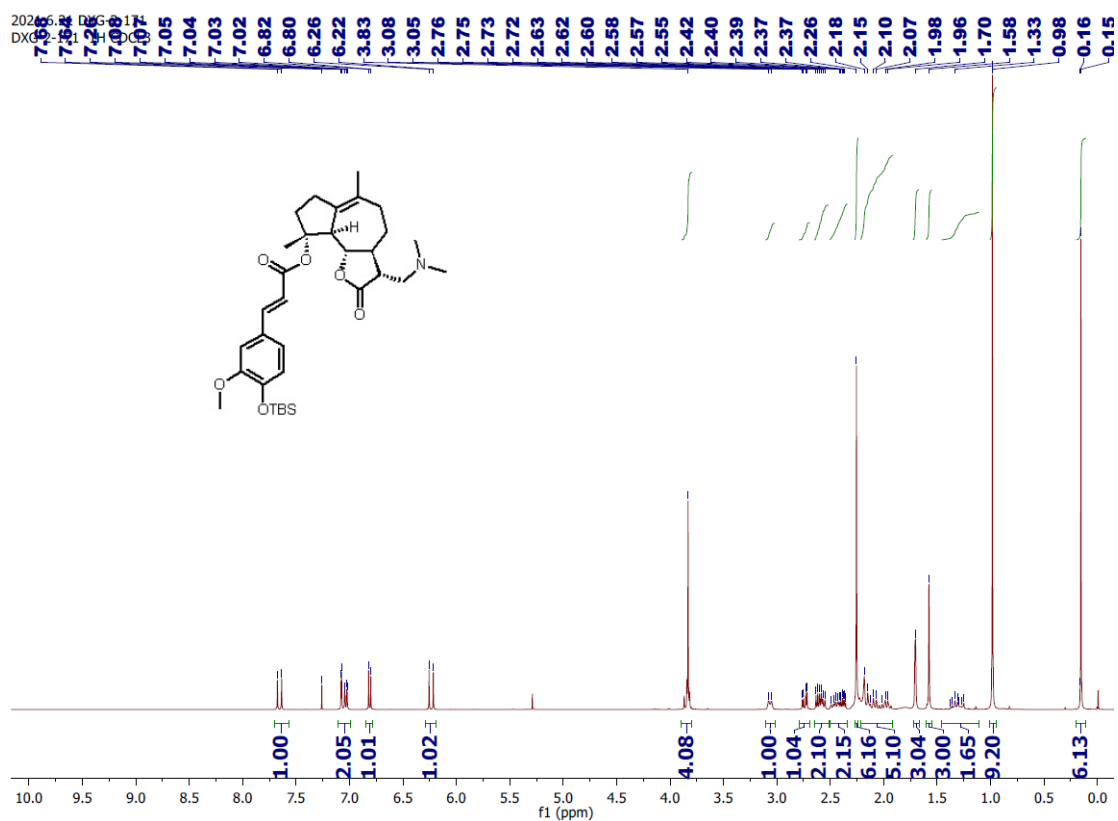


Figure S6 1H NMR spectra of compound 10

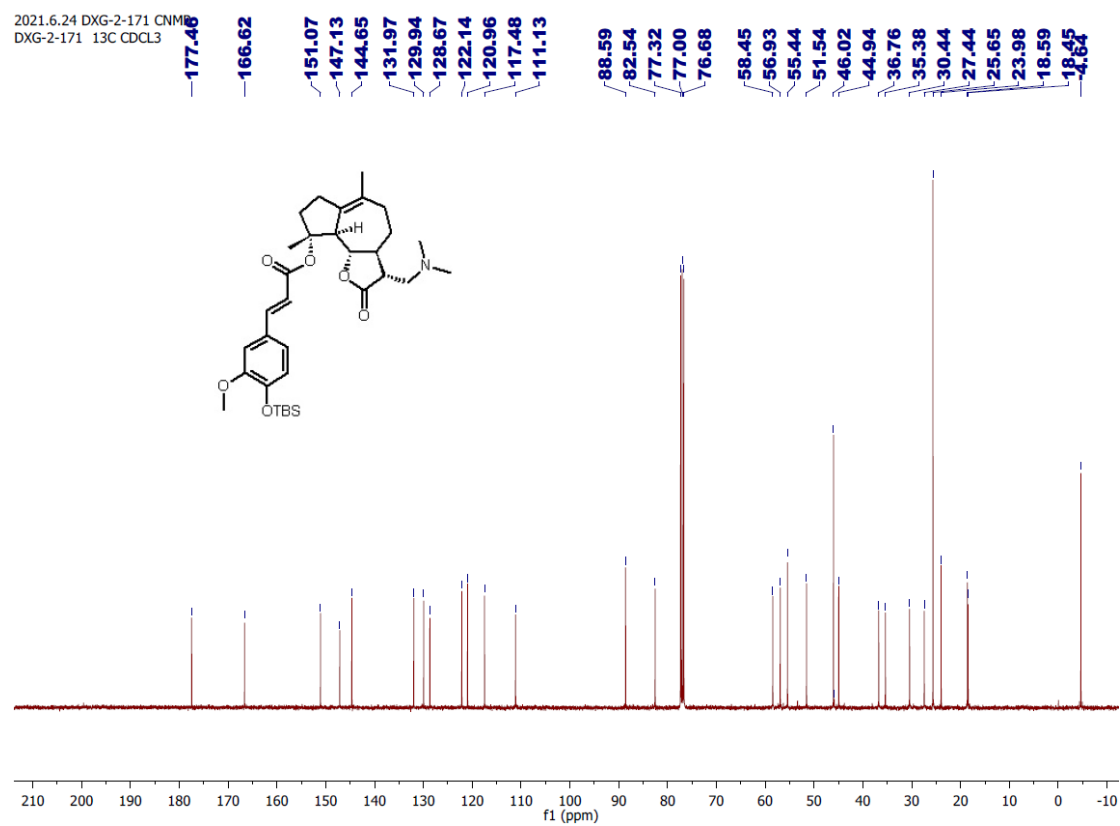


Figure S7 13C NMR spectra of compound 10

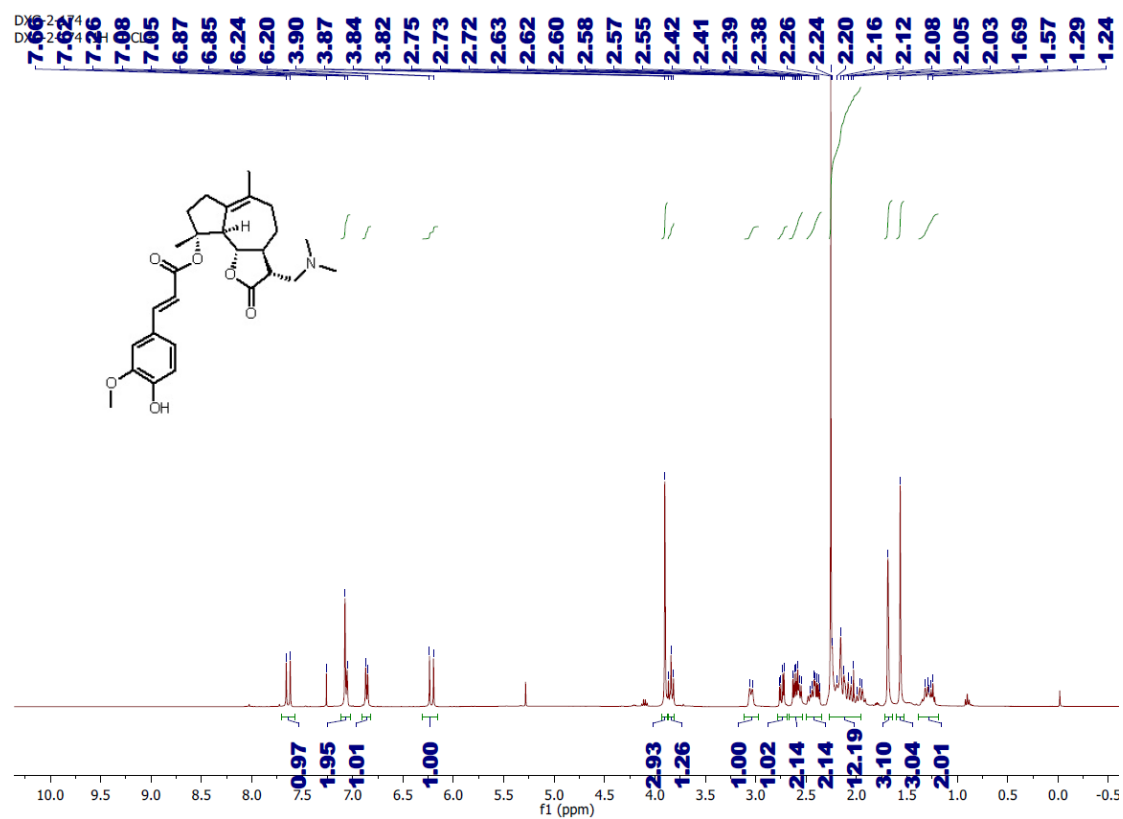


Figure S8 1H NMR spectra of compound 2

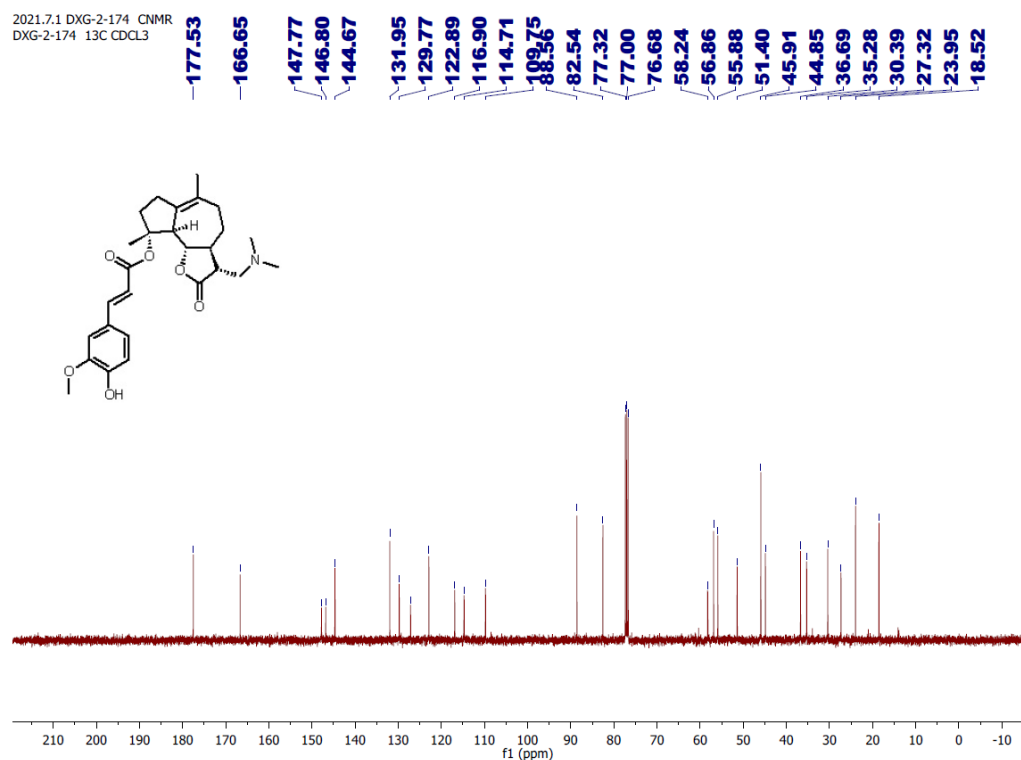


Figure S9 13C NMR spectra of compound 2

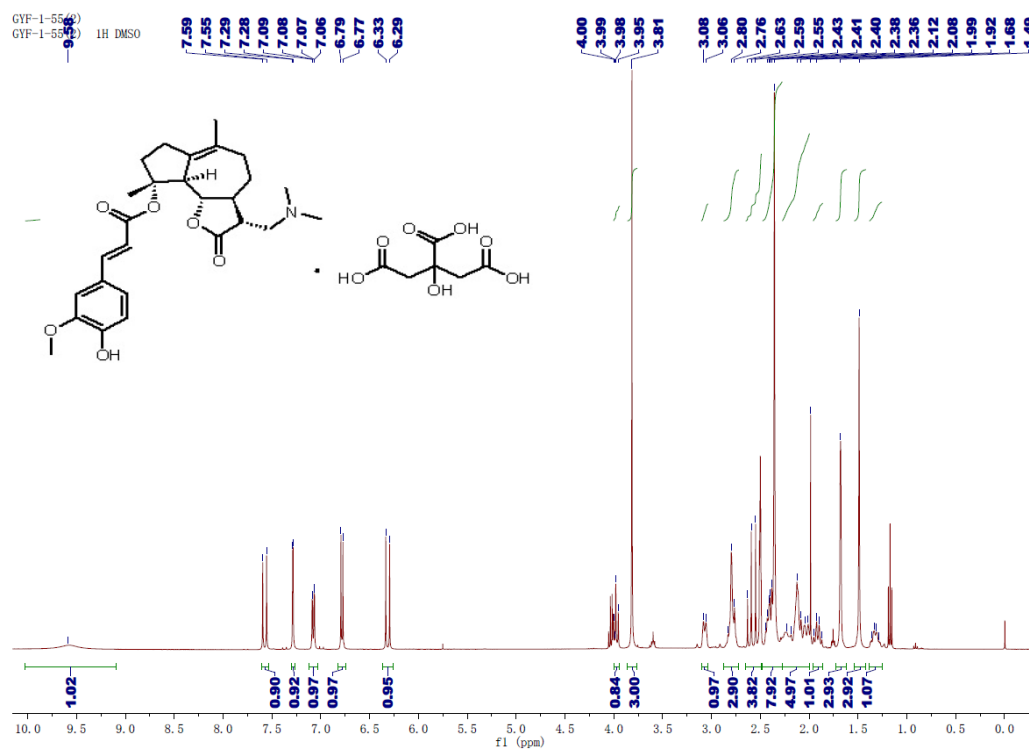


Figure S10 ¹H NMR spectra of compound 5

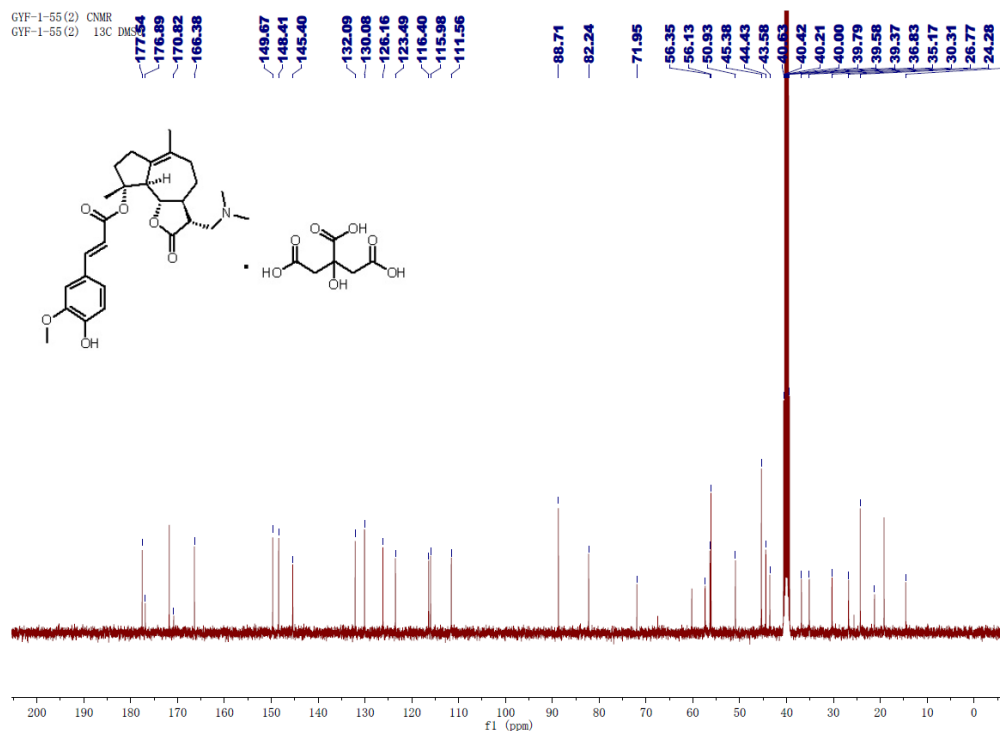


Figure S11 ¹³C NMR spectra of compound 5

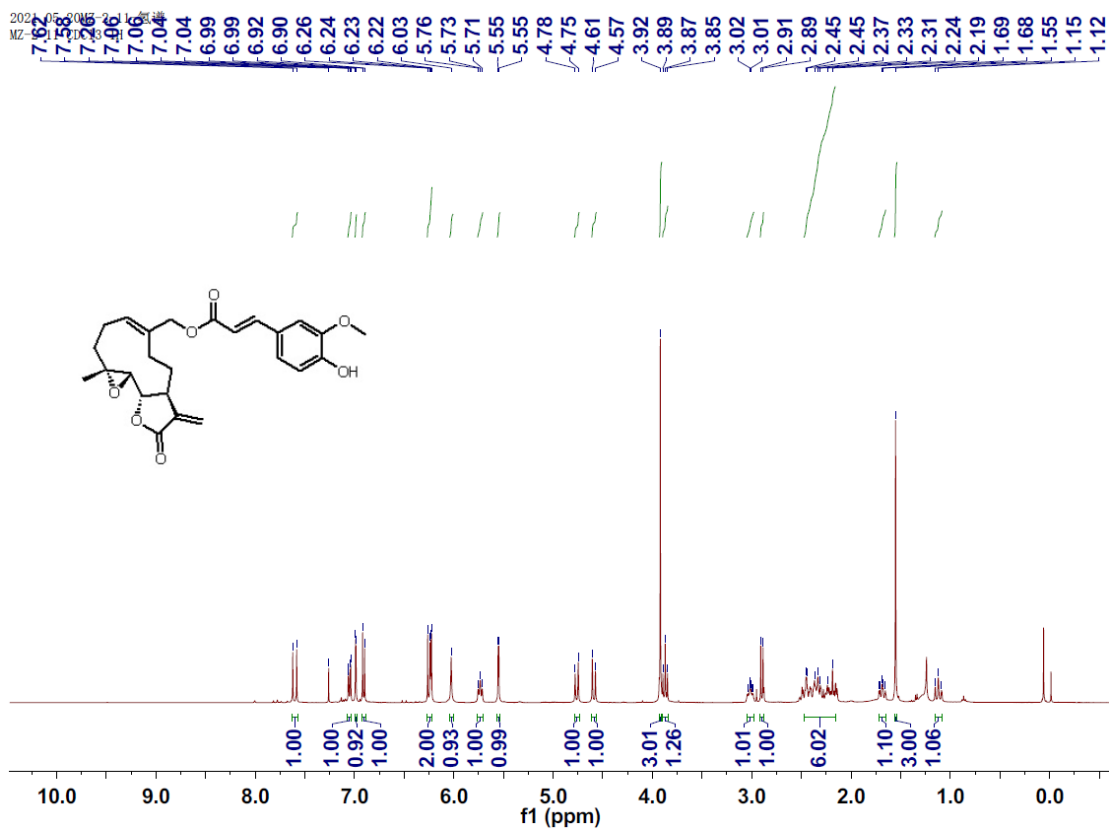


Figure S12 ¹H NMR spectra of compound 3

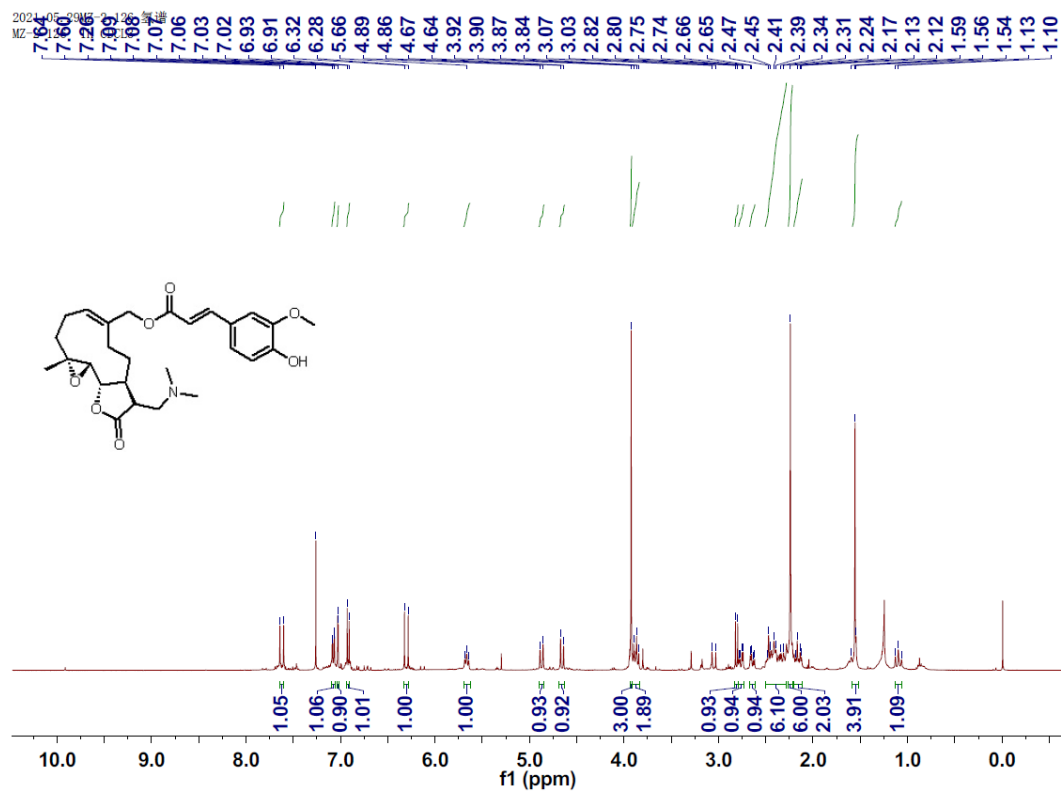


Figure S13 ¹H NMR spectra of compound 12

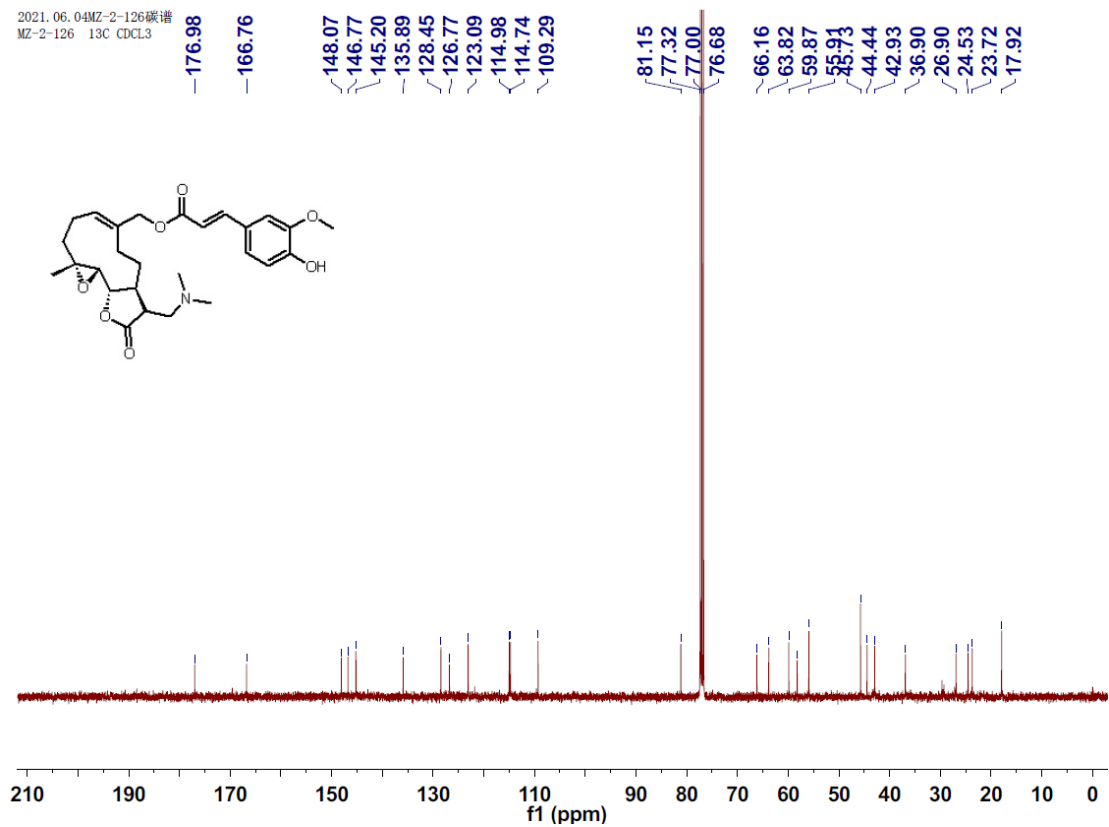


Figure S14 ¹³C NMR spectra of compound 12

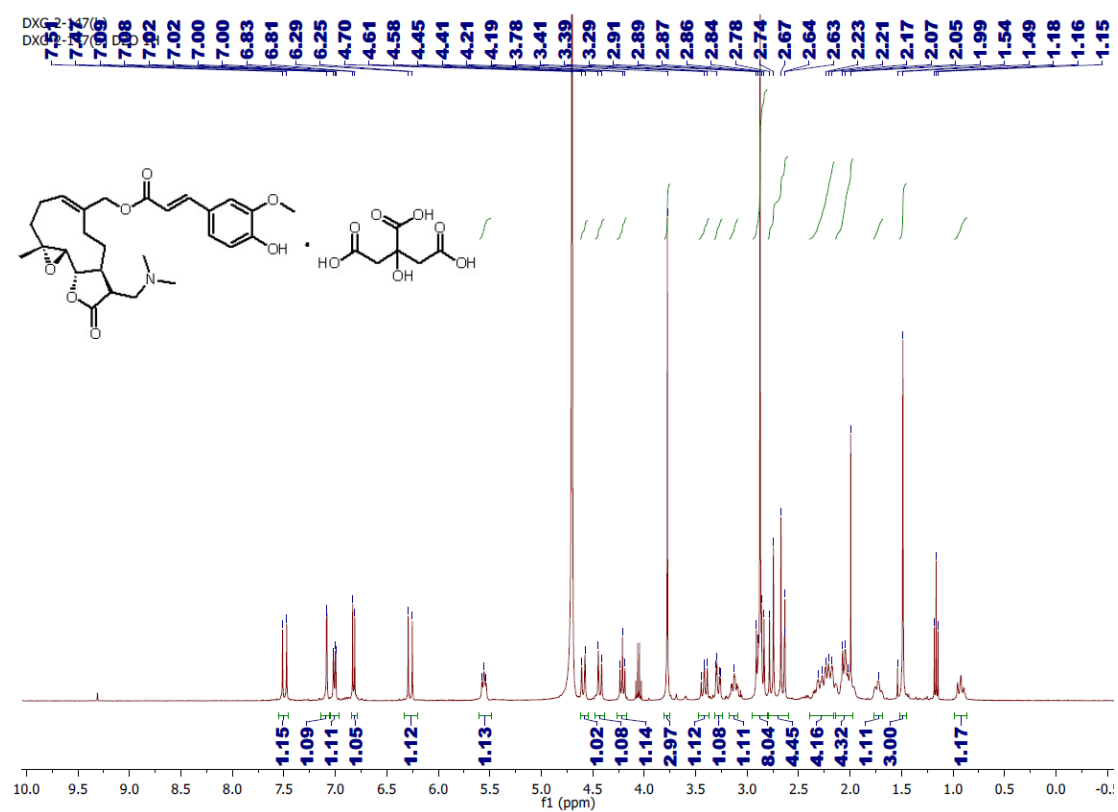


Figure S15 ¹H NMR spectra of compound 6

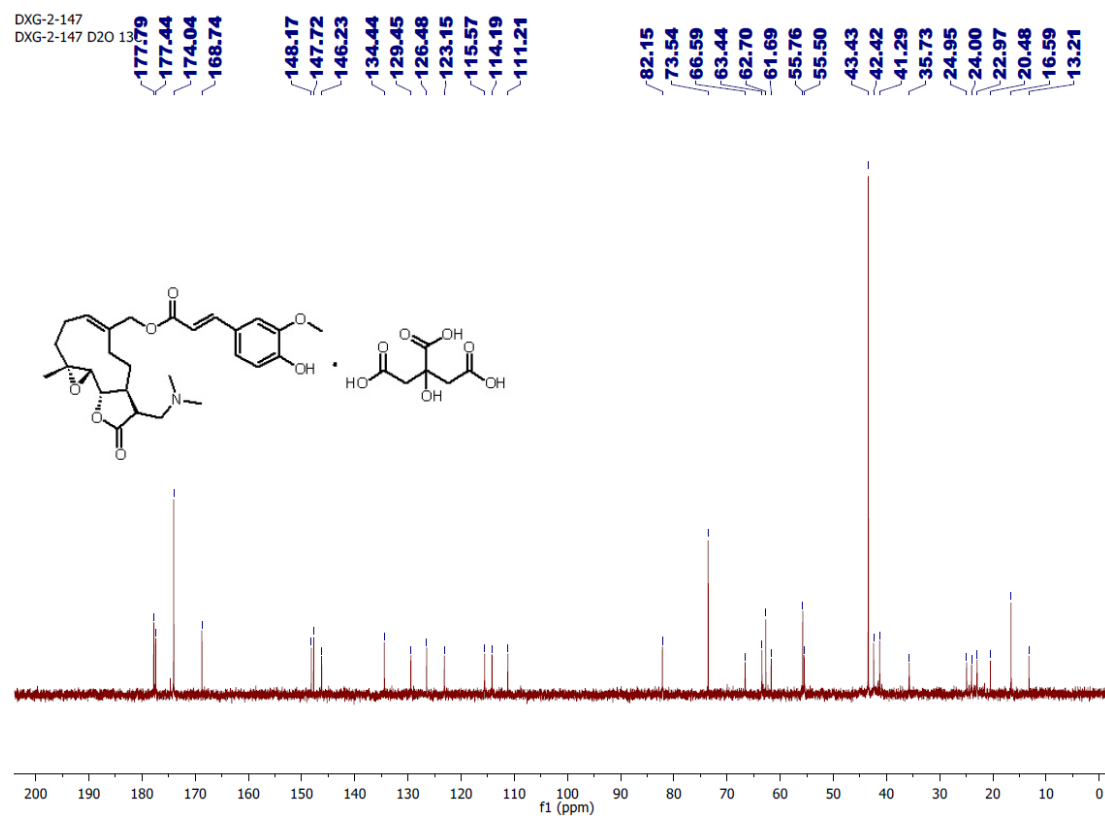


Figure S16 ¹³C NMR spectra of compound 6

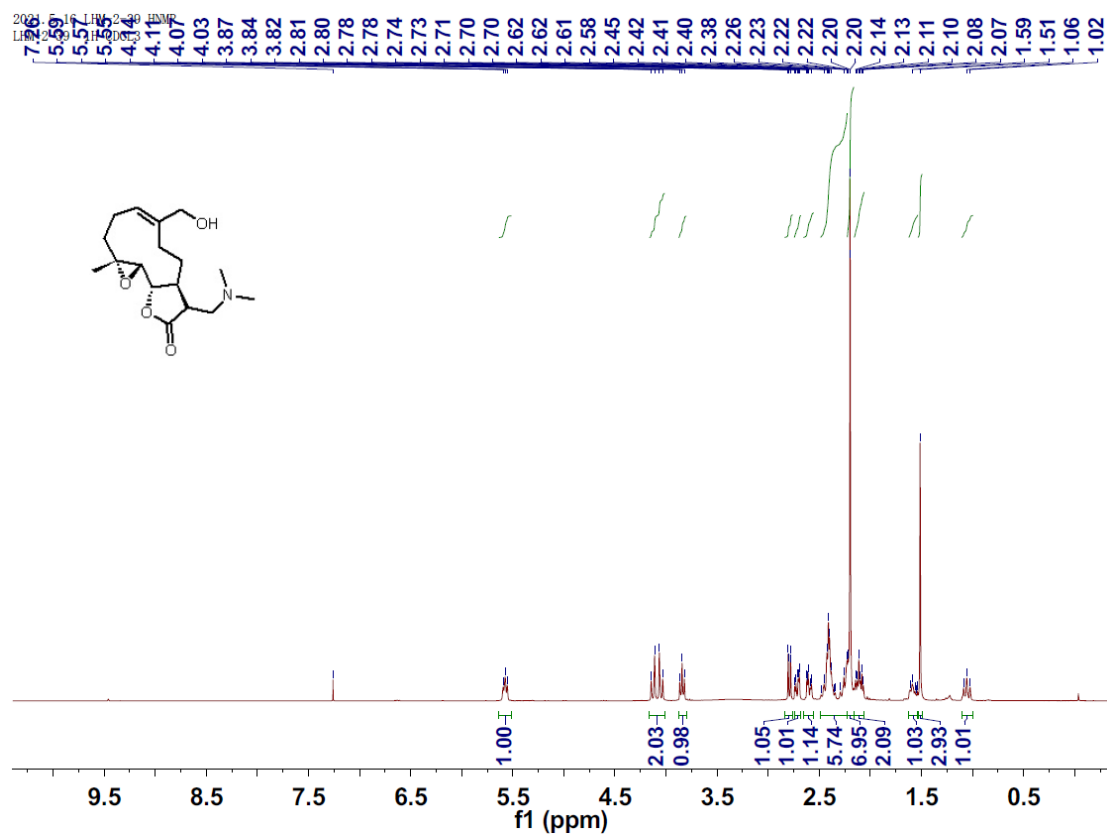


Figure S17 ¹H NMR spectra of compound 13

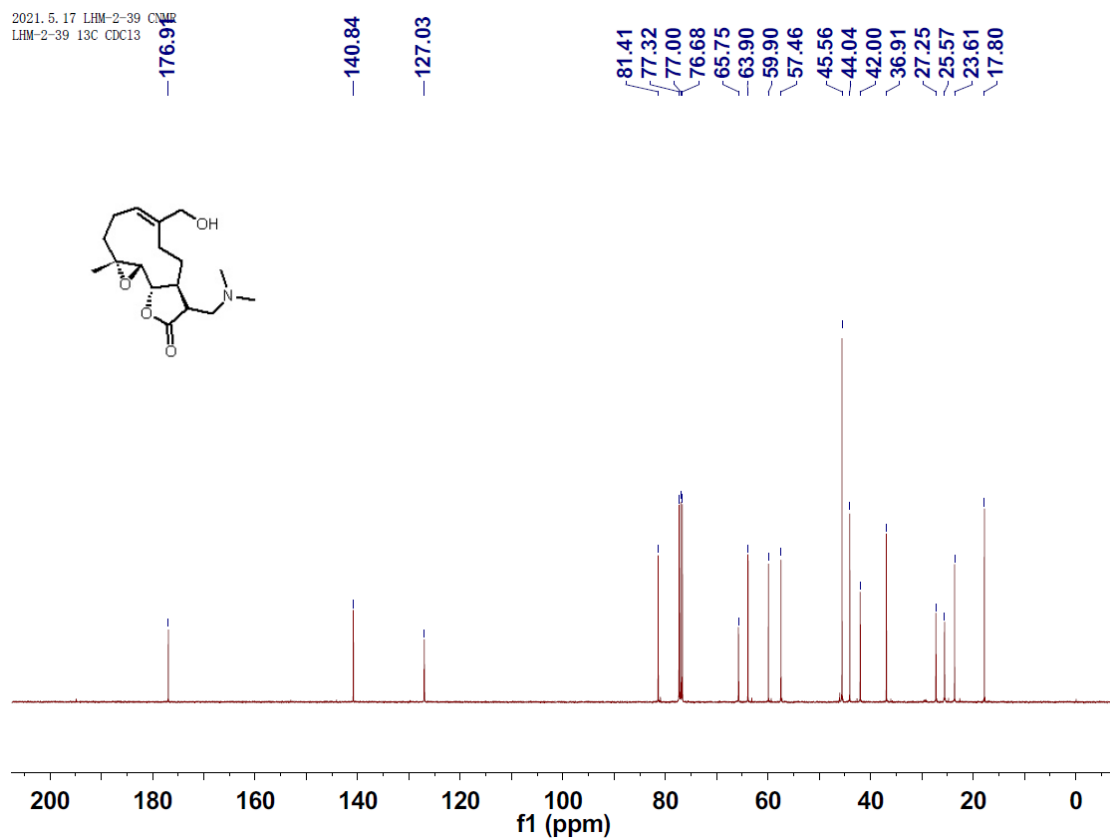


Figure S18 13C NMR spectra of compound 13

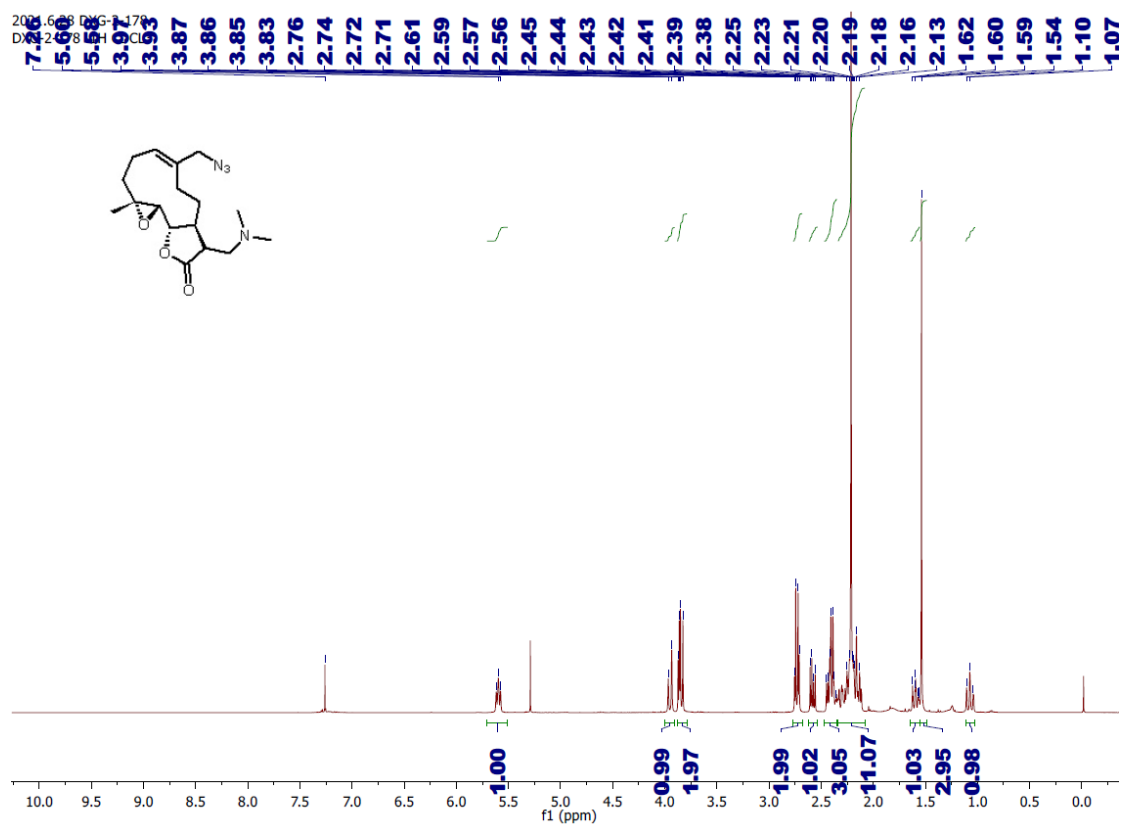


Figure S19 1H NMR spectra of compound 14

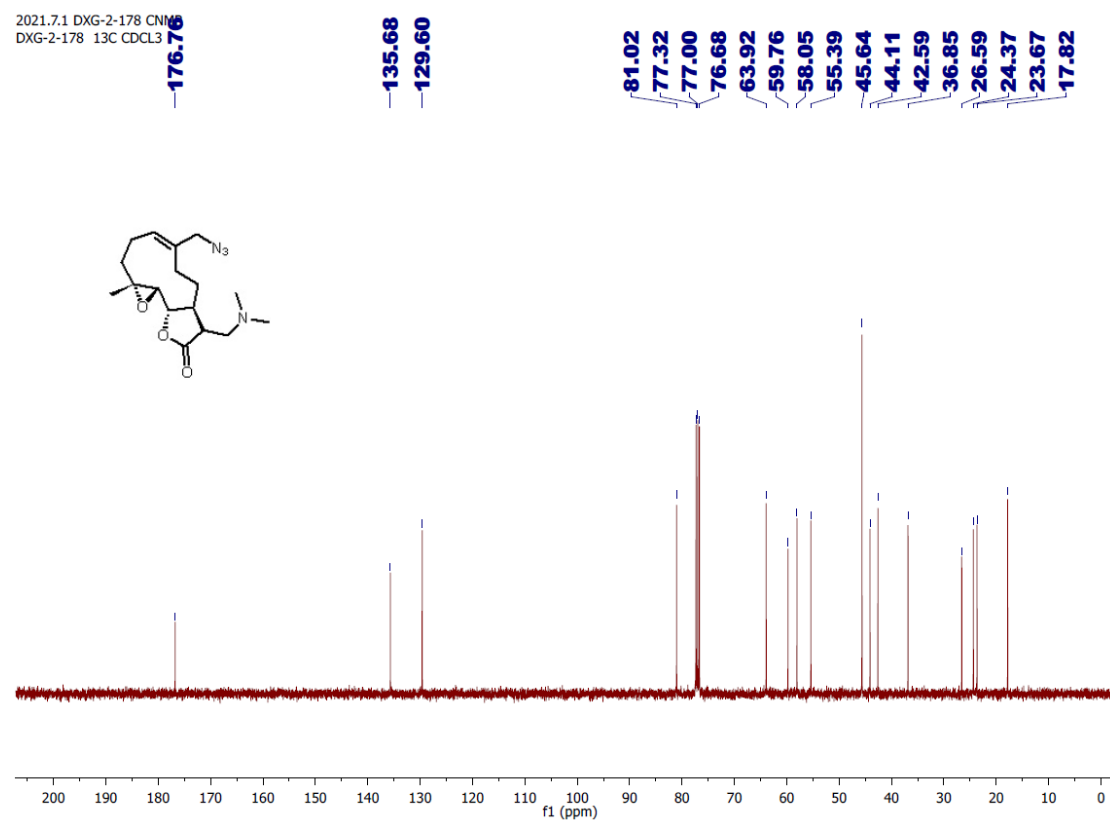


Figure S20 13C NMR spectra of compound 14

2021.7.1 DXG-2-182
DXG-2-182 1H CDCL₃

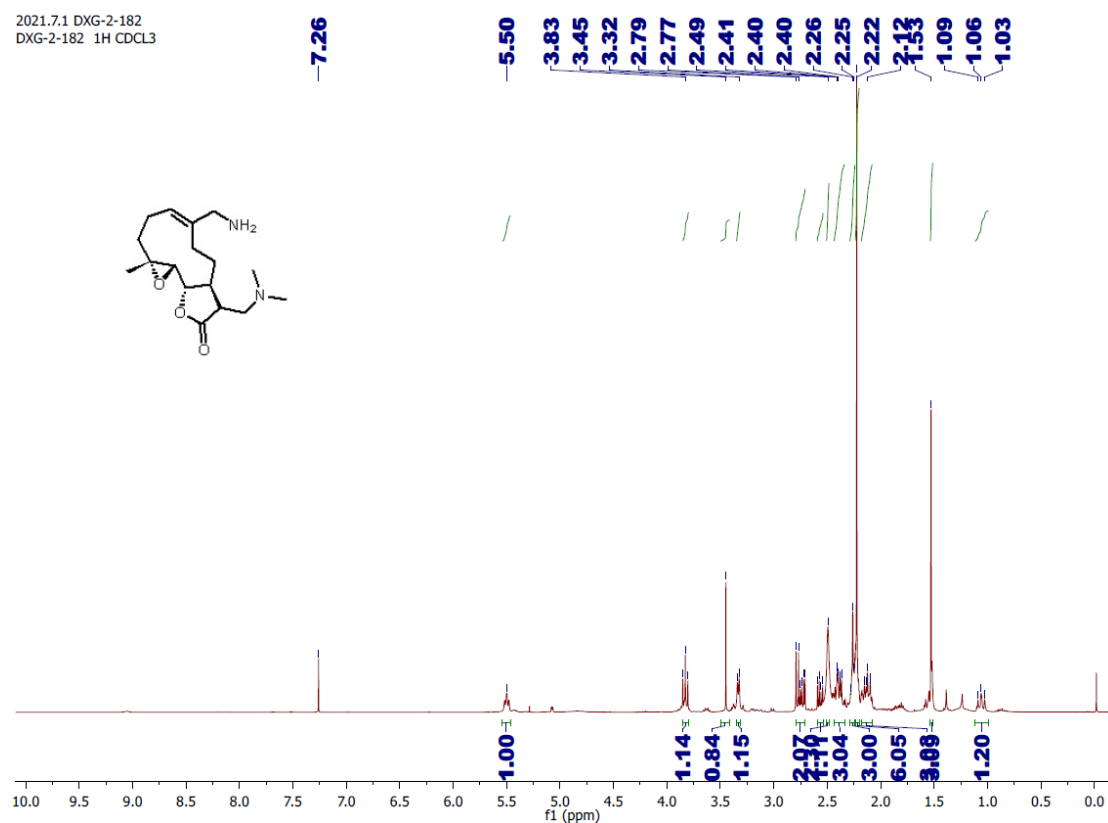


Figure S21 1H NMR spectra of compound 15

DXG-2-182
DXG-2-182 13C CDCL₃

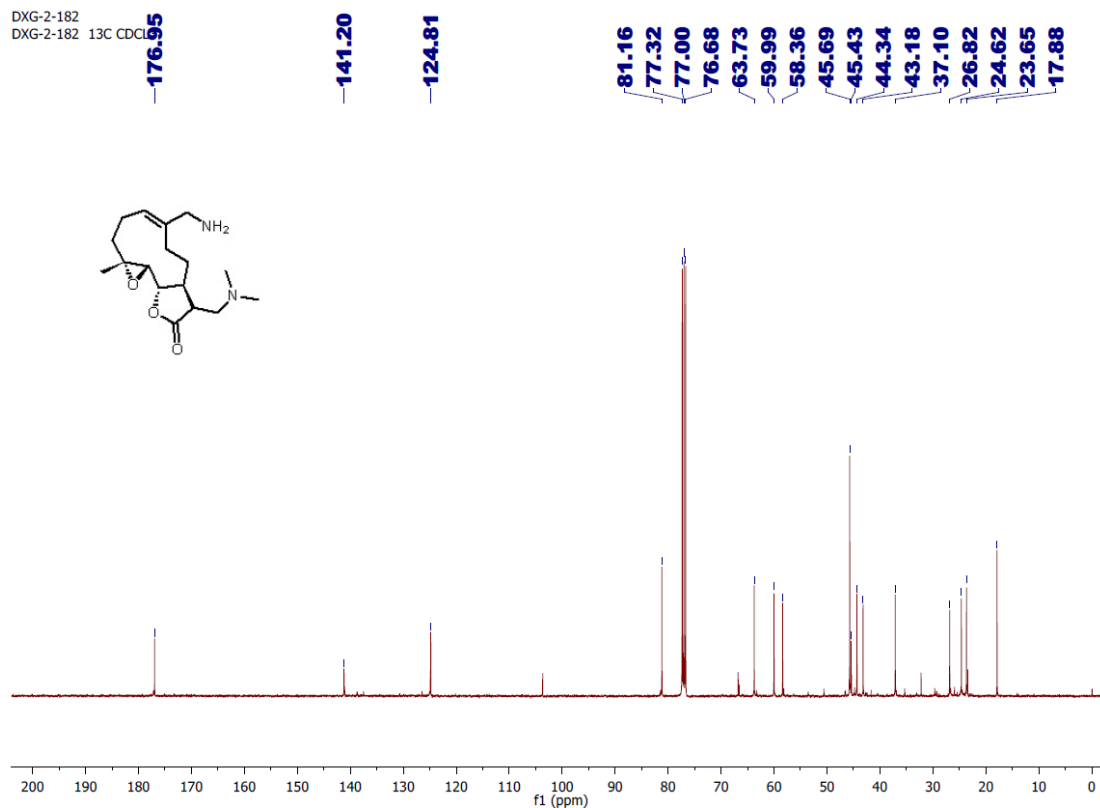


Figure S22 ¹³C NMR spectra of compound 15

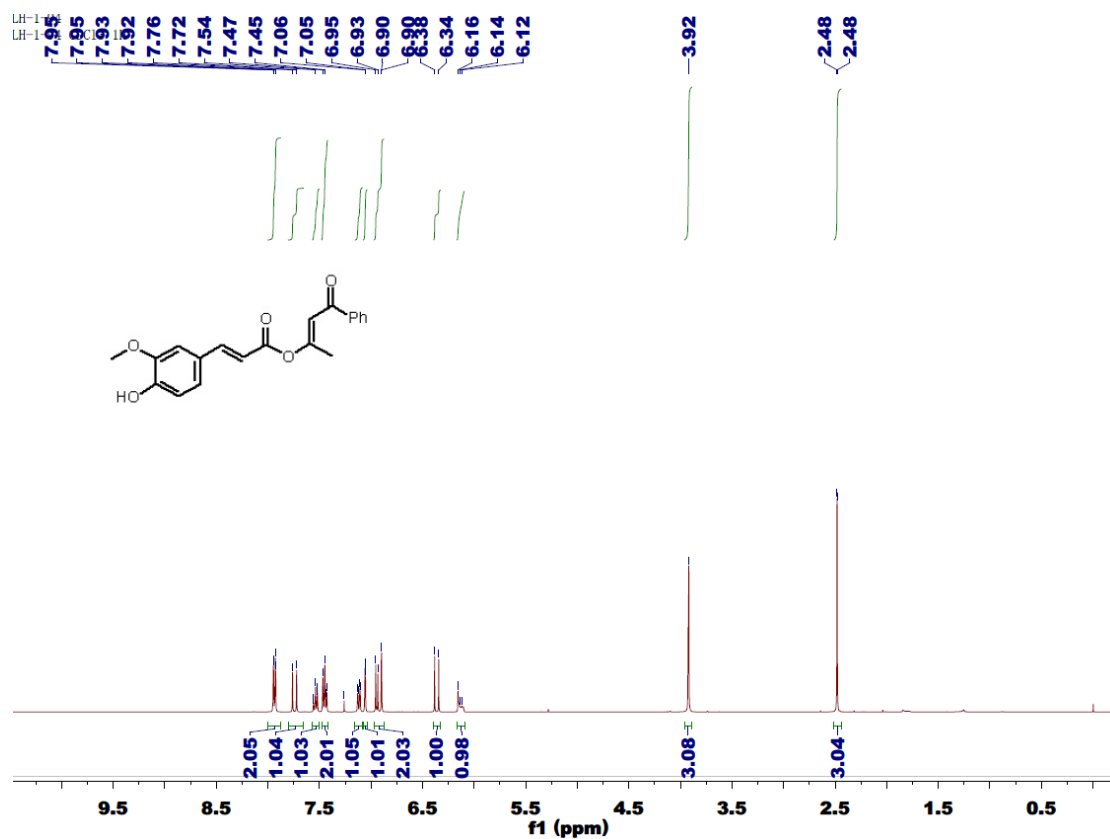


Figure S23 ¹H NMR spectra of compound 16

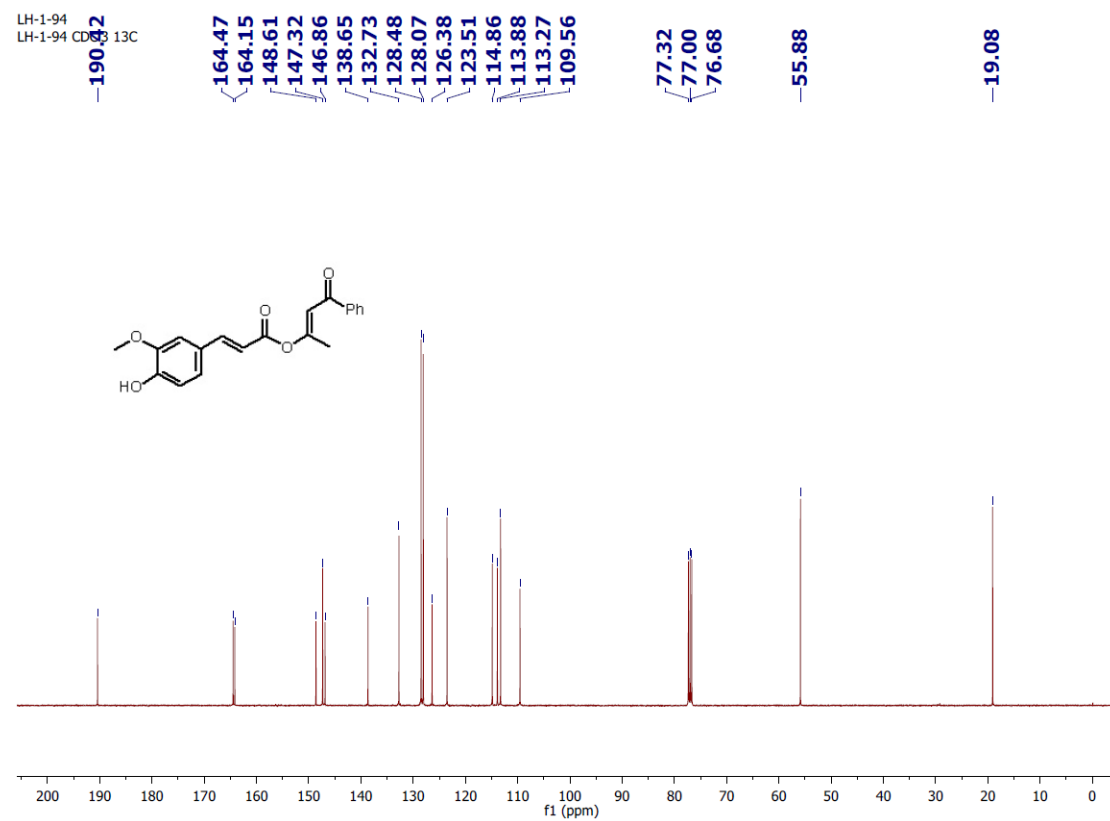


Figure S24 13C NMR spectra of compound 16

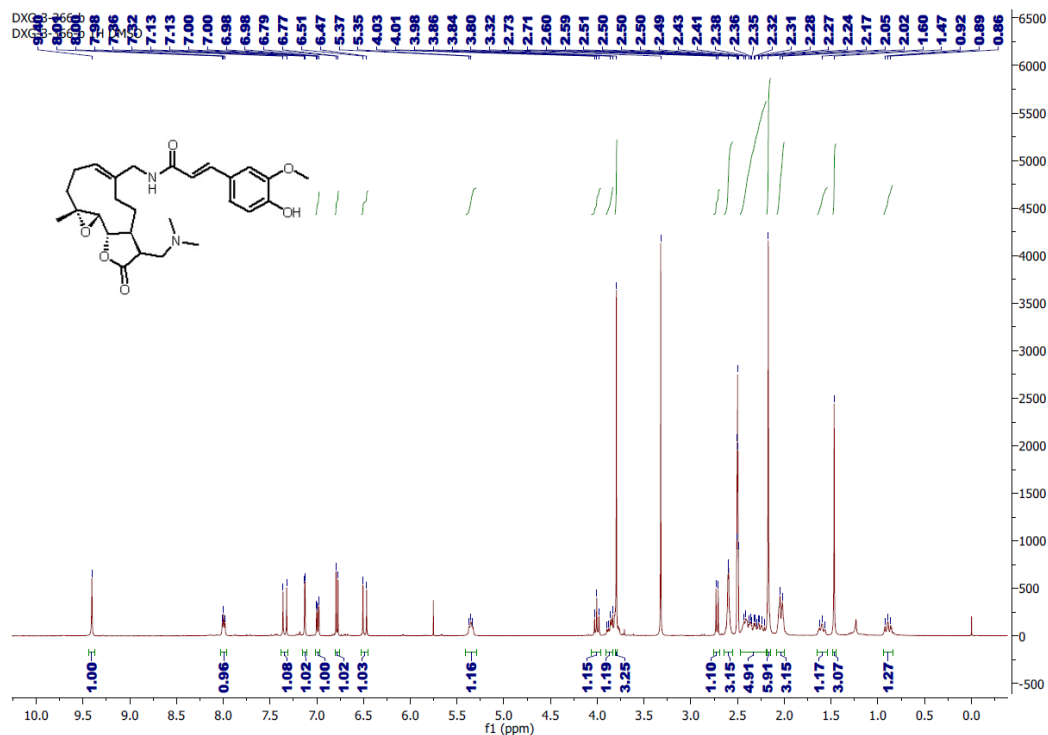


Figure S25 1H NMR spectra of compound 4

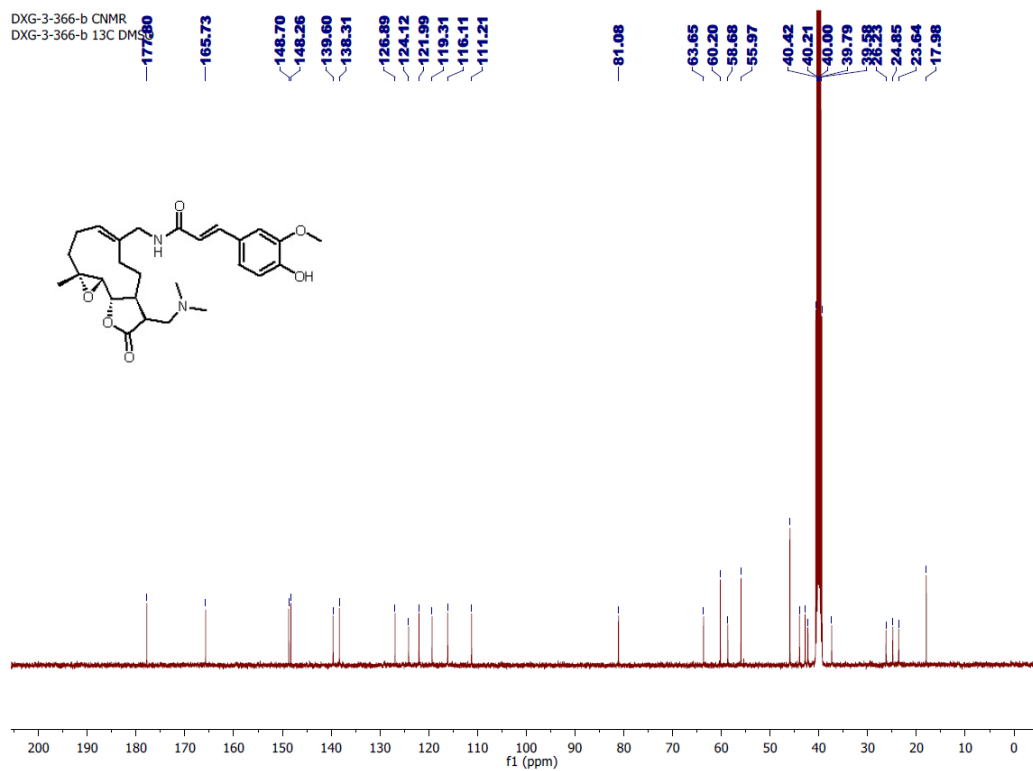


Figure S26 13C NMR spectra of compound 4

Table S1 Primers for qRT-PCR

Forward: TNF- α	GAAGATCACCTCCGCTCCCAATG
Reverse: TNF- α	ATGTTCCCGTCCACCACCTCTC
Forward: mF-IL-6	CTTCTTGGGACTGATGCTGGTGAC
Reverse: mR-IL-6	AGGTCTGTTGGGAGTGGTATCCTC
Forward: mF-IL-1 β	TCGCAGCAGCACATCAACAAGAG
Reverse: mR-IL-1 β	AGGTCCACGGGAAAGACACAGG
Forward: mF18S	CGCCGCTAGAGGTGAAATTCT
Reverse: mR18S	CGAACCTCCGACTTTCGTTCT
Forward: iNOS	AGGAGGAGAGAGATCCGATTTAG
Reverse: iNOS	TCAGACTTCCCTGTCTCAGTAG