

Supporting Information

Rhinoclactones A-E, Resorcylic Acid Analogs from Desert Plant Endophytic Fungus *Rhinocladiella similis*

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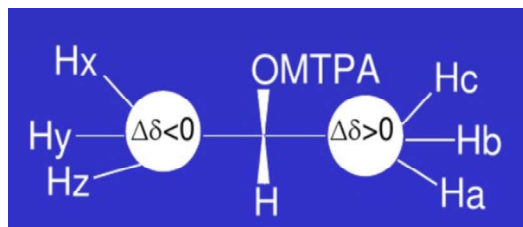
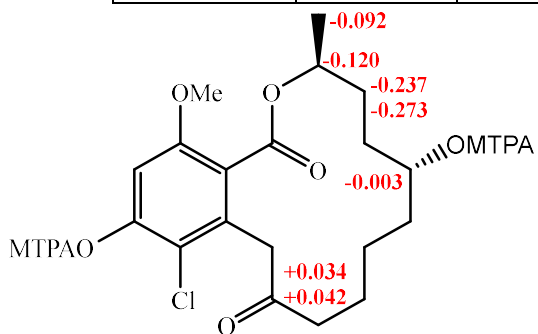
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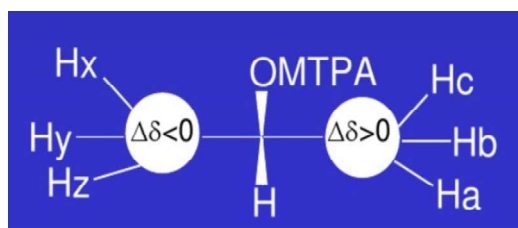
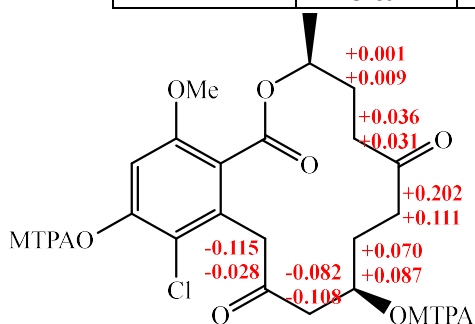
TableS1. ^1H NMR data (600MHz, Acetone- d_6) of the diagnostic protons from the (*S*)- and (*R*)-OMTPA esters derivatives of compound **2**.

Pos	2			
	δ_H	δ_S	δ_R	$\Delta\delta_H(\delta_S-\delta_R)$
1	1.28	1.216	1.308	-0.092
2	5.20	5.139	5.259	-0.120
3	1.28	1.363	1.600	-0.237
	1.48	1.641	1.914	-0.273
5	3.45	4.962	4.965	-0.003
9	2.79	2.890	2.856	+0.034
	2.46	2.549	2.507	+0.042



TableS2. ^1H NMR data (600MHz, Acetone- d_6) of the diagnostic protons from the (*S*)- and (*R*)-OMTPA esters derivatives of compound **4**.

Pos	4			
	δ_H	δ_S	δ_R	$\Delta\delta_H (\delta_S - \delta_R)$
3	2.16	2.250	2.249	+0.001
	1.60	1.712	1.703	+0.009
4	2.62	2.702	2.666	+0.036
	2.37	2.517	2.486	+0.031
6	2.64	2.645	2.443	+0.202
	2.64	2.443	2.332	+0.111
7	1.87	2.195	2.125	+0.070
	1.87	2.056	1.969	+0.087
9	2.63	2.581	2.663	-0.082
	2.33	2.467	2.575	-0.108
11	4.10	4.067	4.082	-0.015
	3.89	3.905	3.933	-0.028



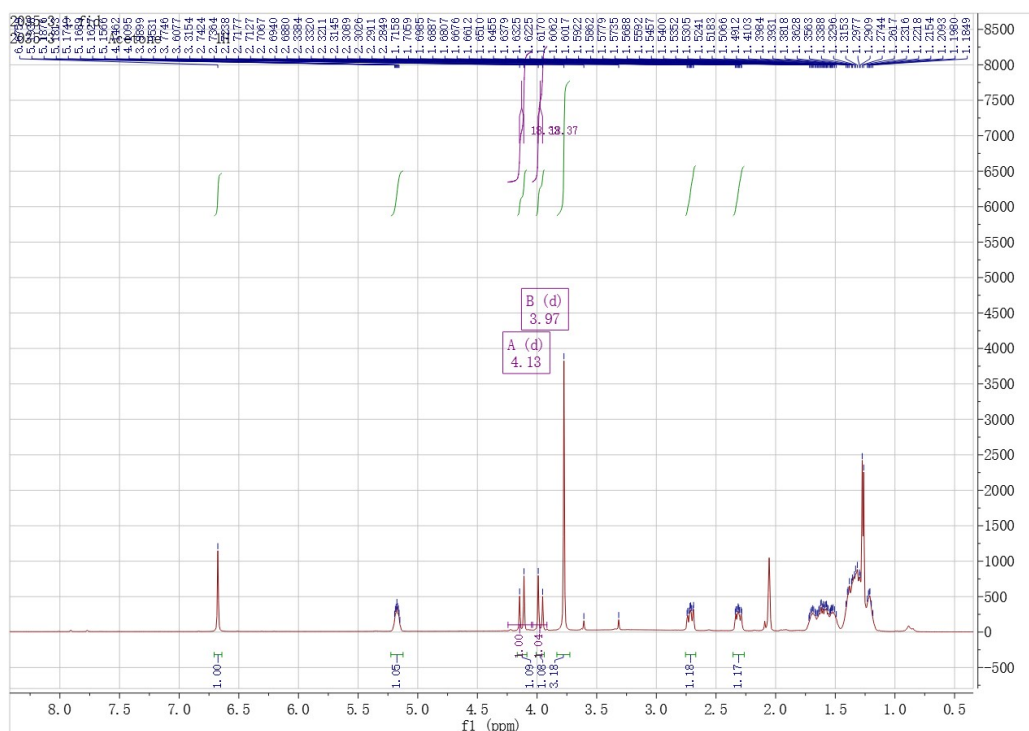


Fig. S1.1 ¹H NMR spectrum of compound (1)

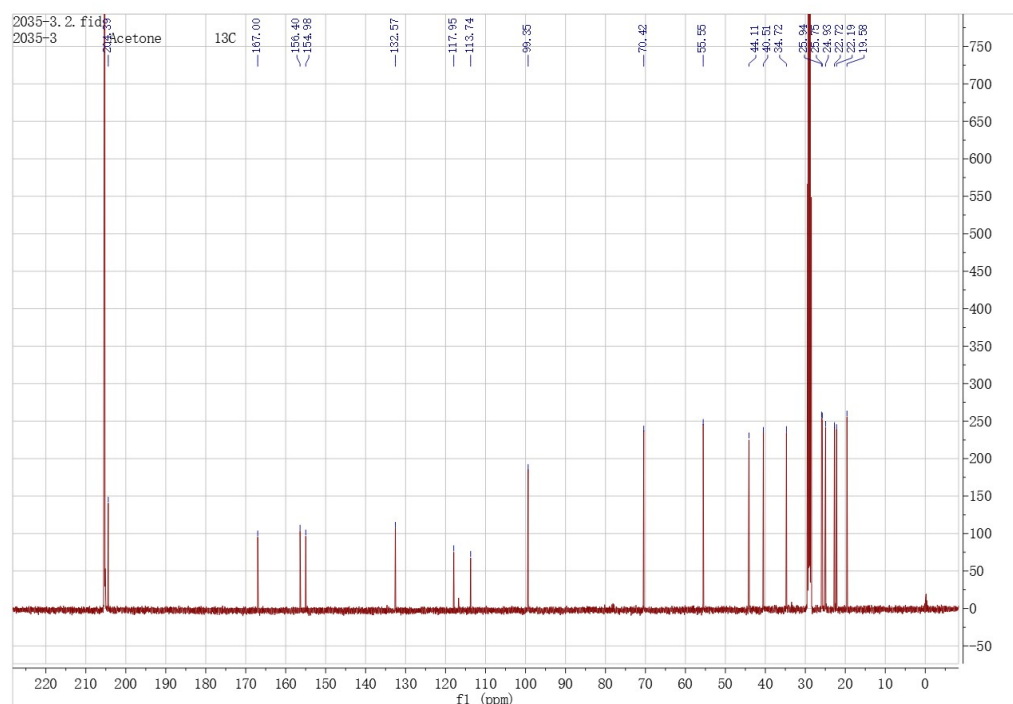


Fig. S1.2 ¹³C NMR spectrum of compound (1)



Fig. S1.3 HSQC spectrum of compound (1)

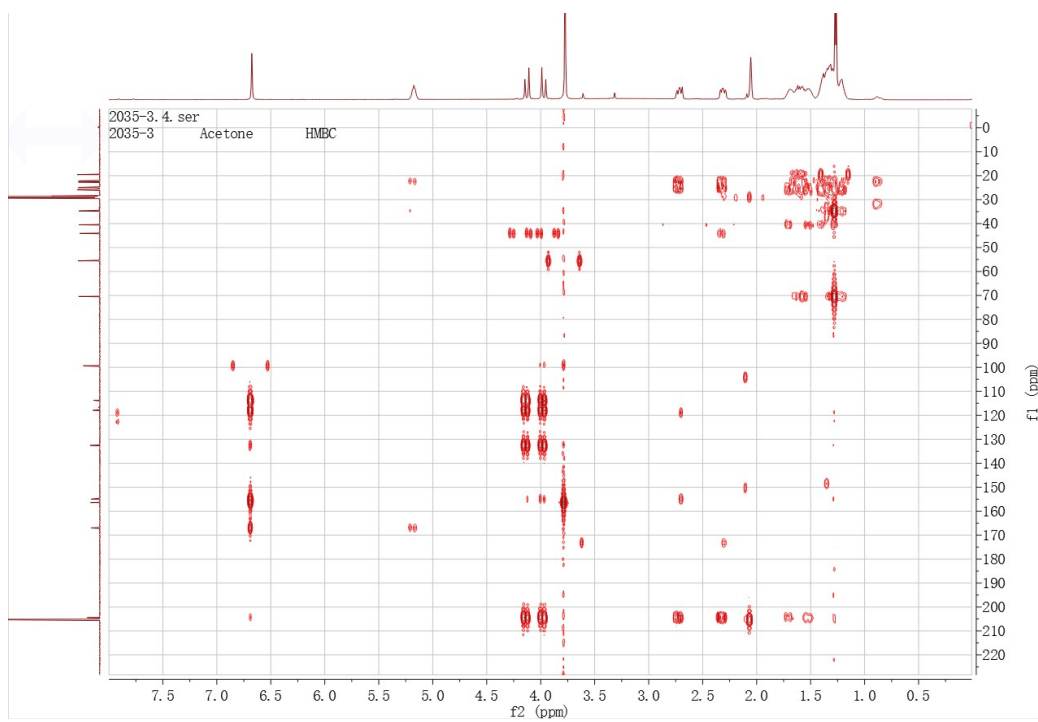


Fig. S1.4 HMBC spectrum of compound (1)

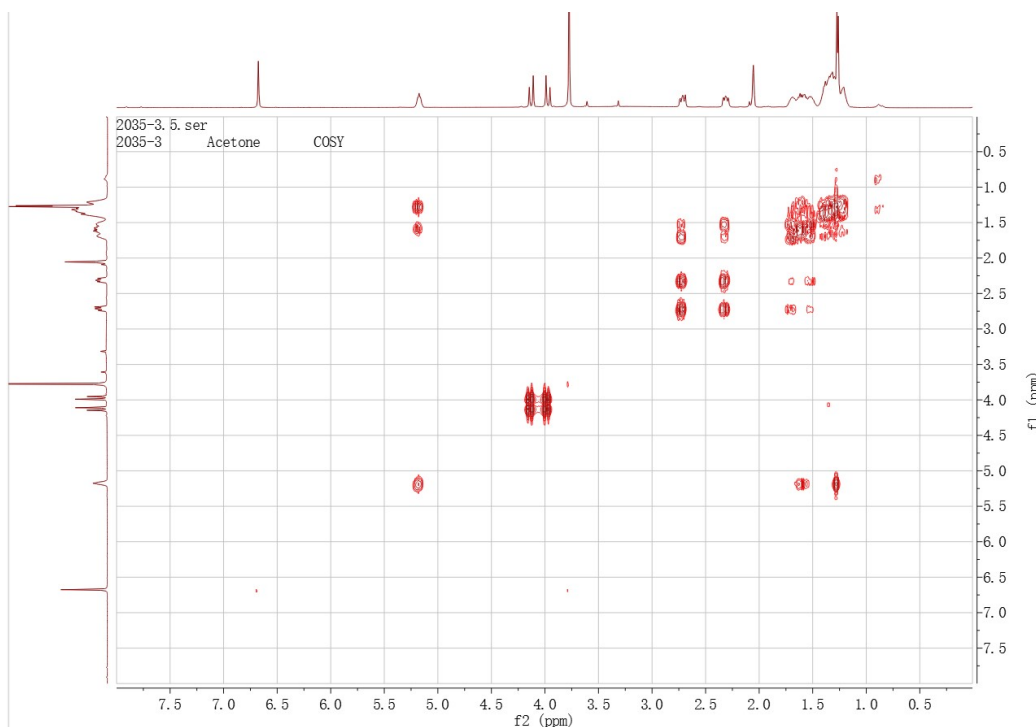


Fig. S1.5 ^1H - ^1H COSY spectrum of compound (1)

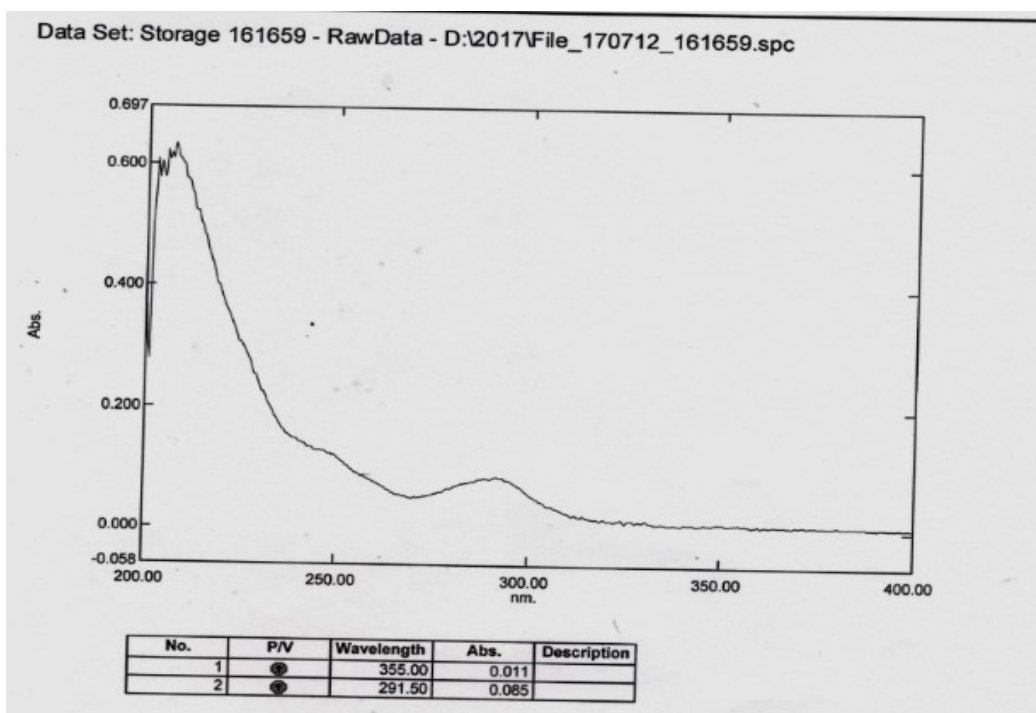


Fig. S1.6 UV spectrum of compound (1)

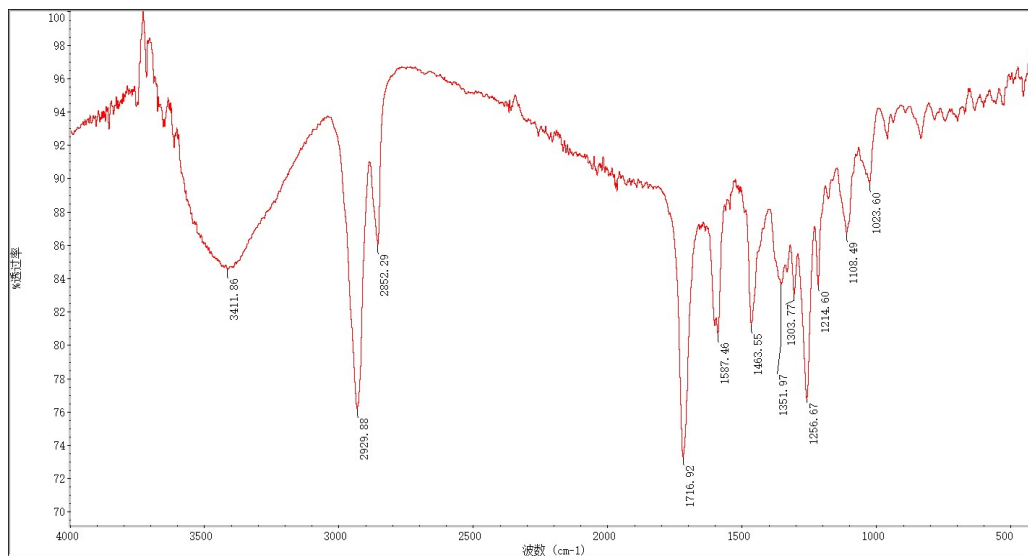


Fig. S1.7 IR spectrum of compound (1)

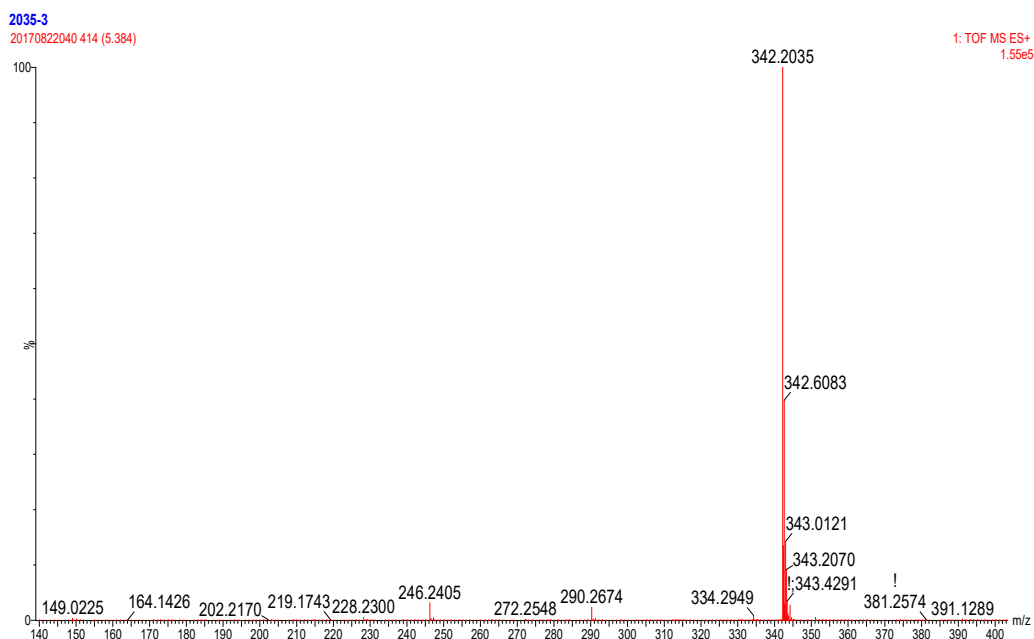


Fig. S1.8 HR-ESI-MS spectrum of compound (1)

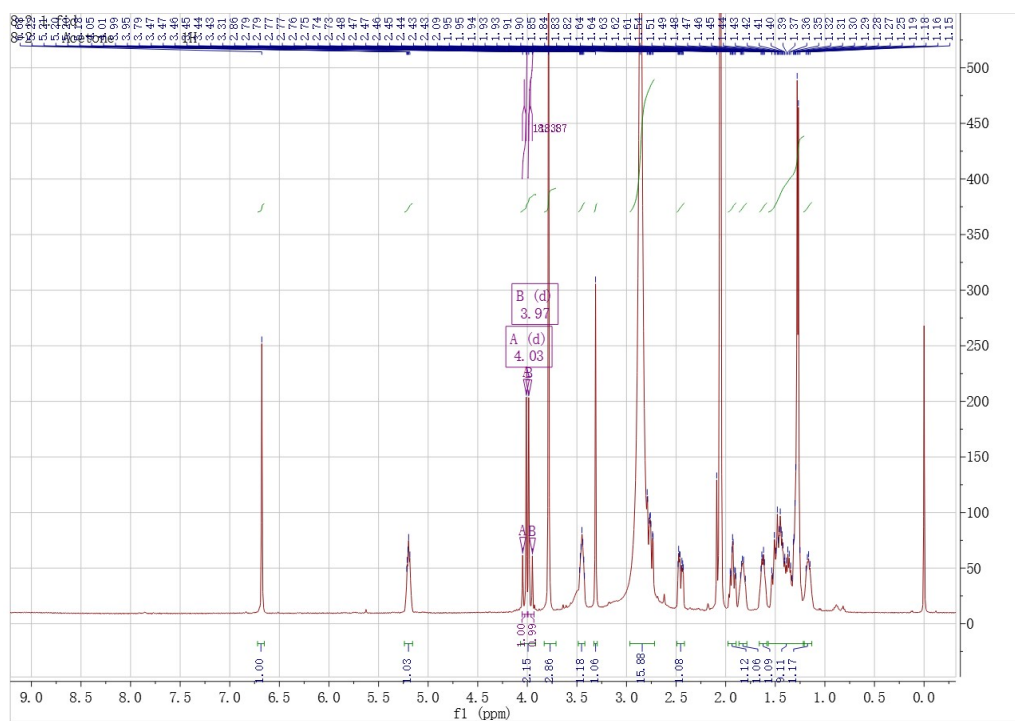


Fig. S2.1 ¹H-NMR spectrum of compound (2)

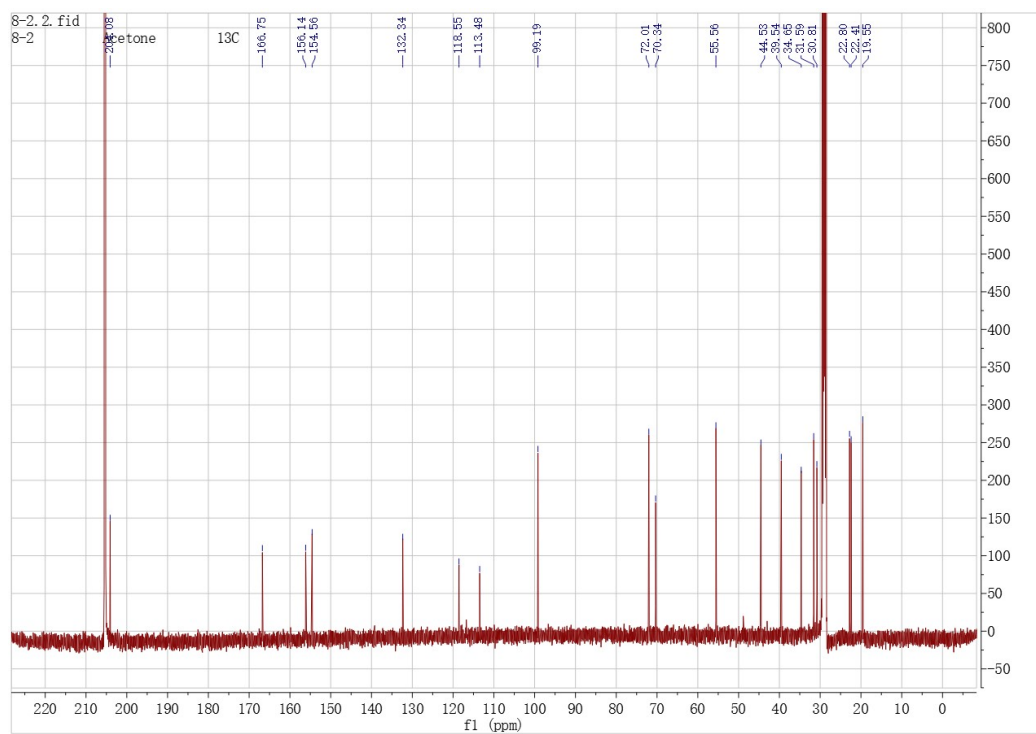


Fig. S2.2 ¹³C-NMR spectrum of compound (2)

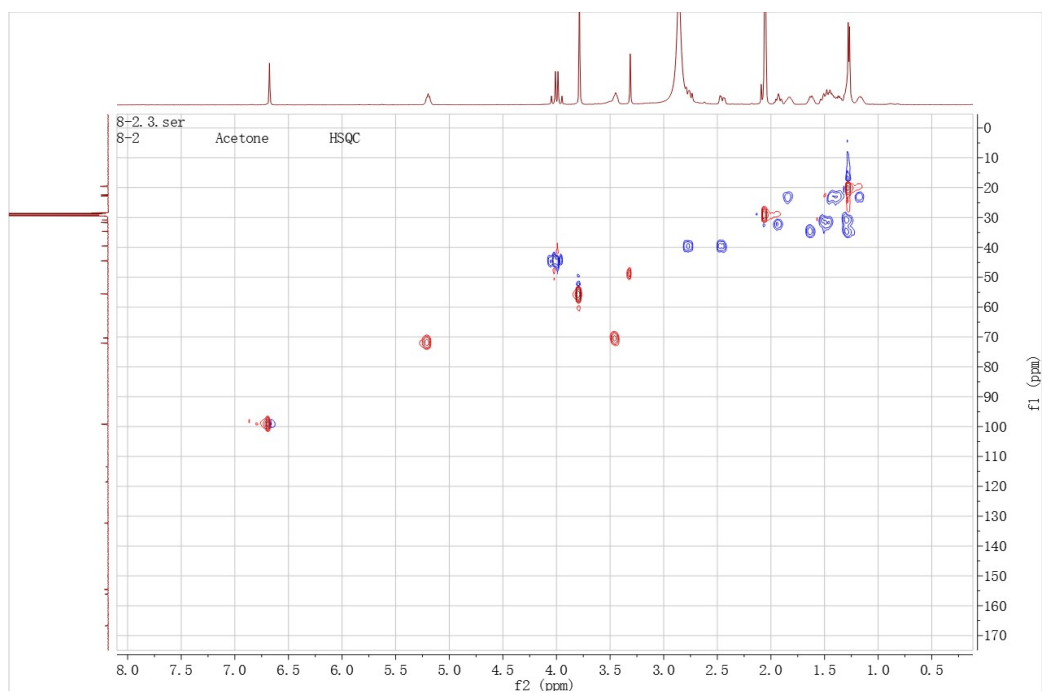


Fig. S2.3 HSQC spectrum of compound (2)

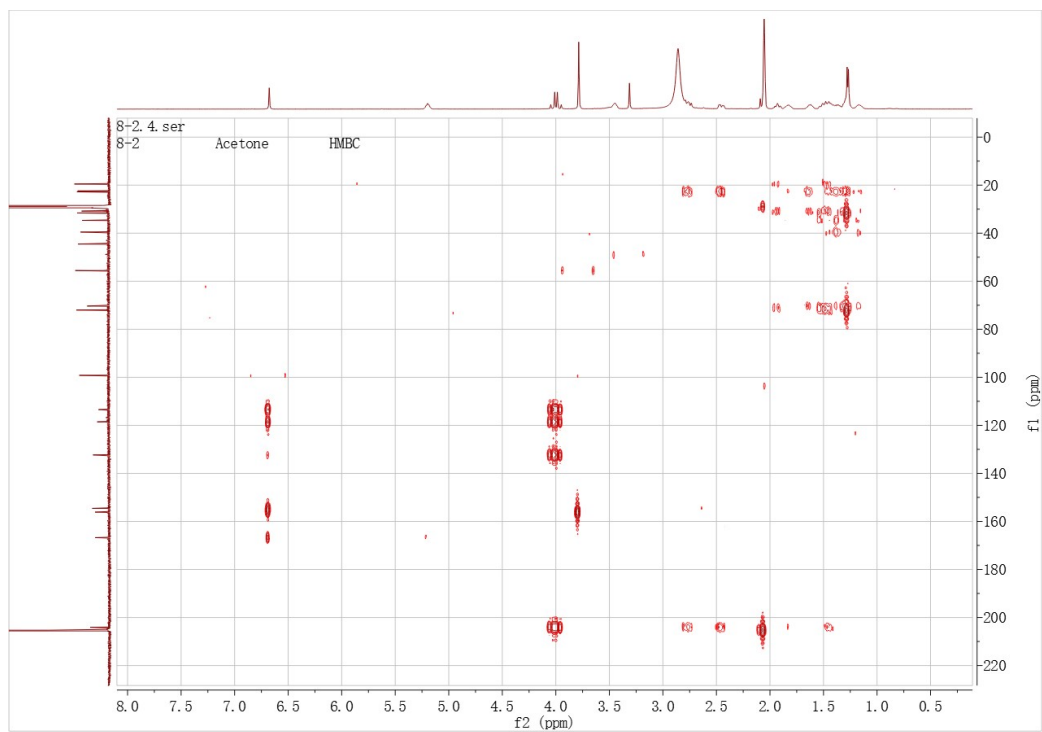


Fig. S2.4 HMBC spectrum of compound (2)

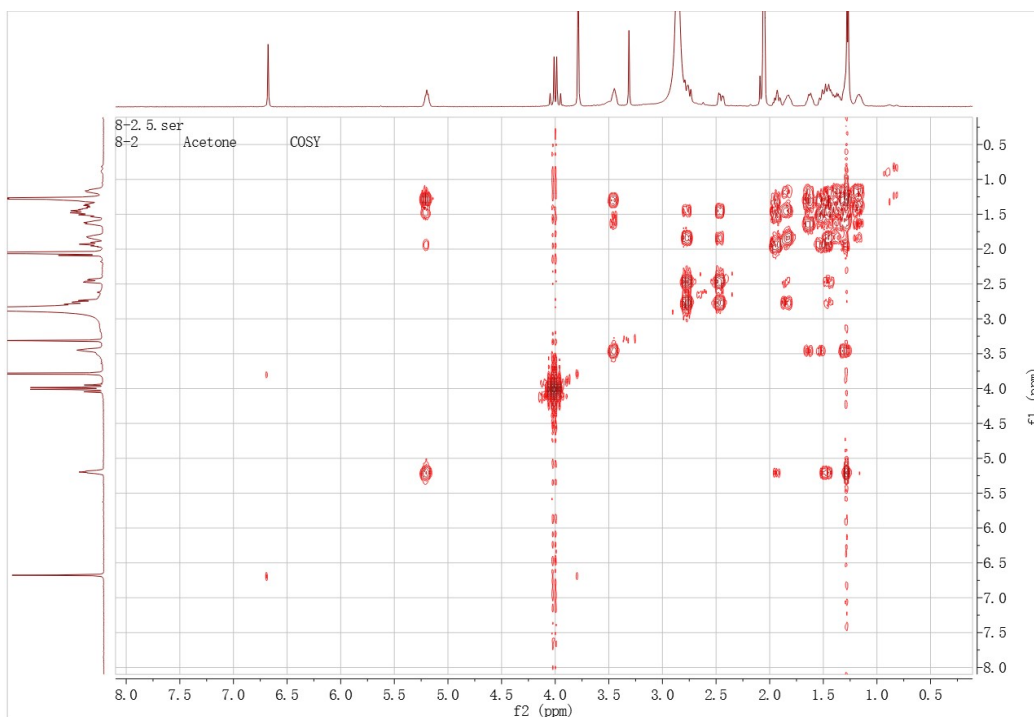


Fig. S2.5 ^1H - ^1H COSY spectrum of compound (2)

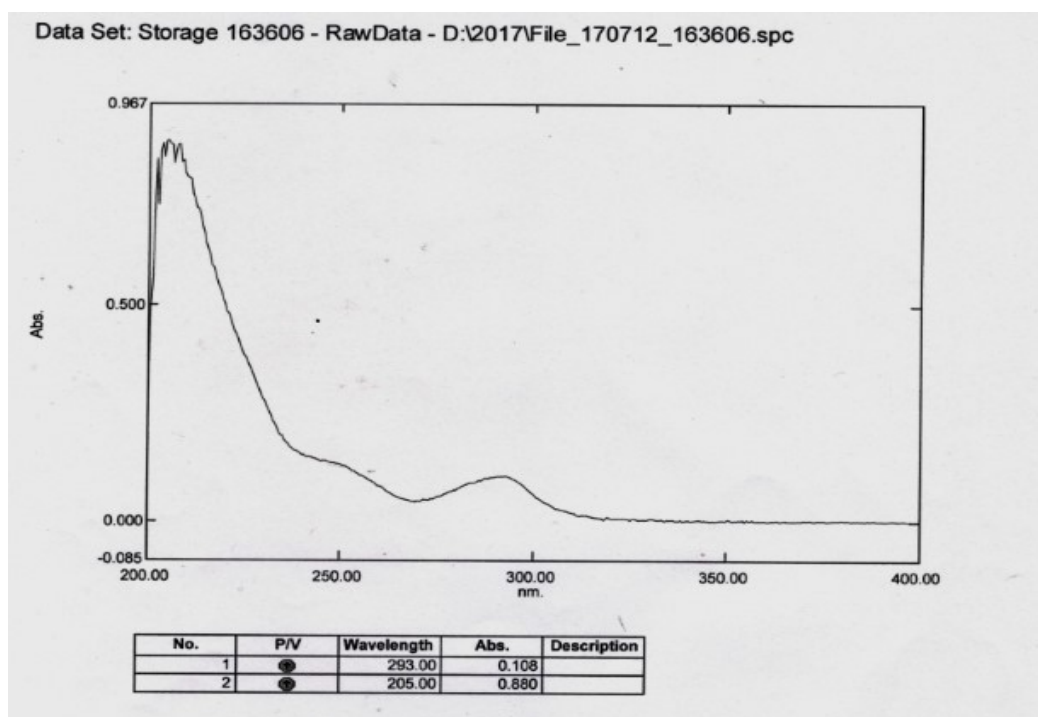


Fig. S2.6 UV spectrum of compound (2)

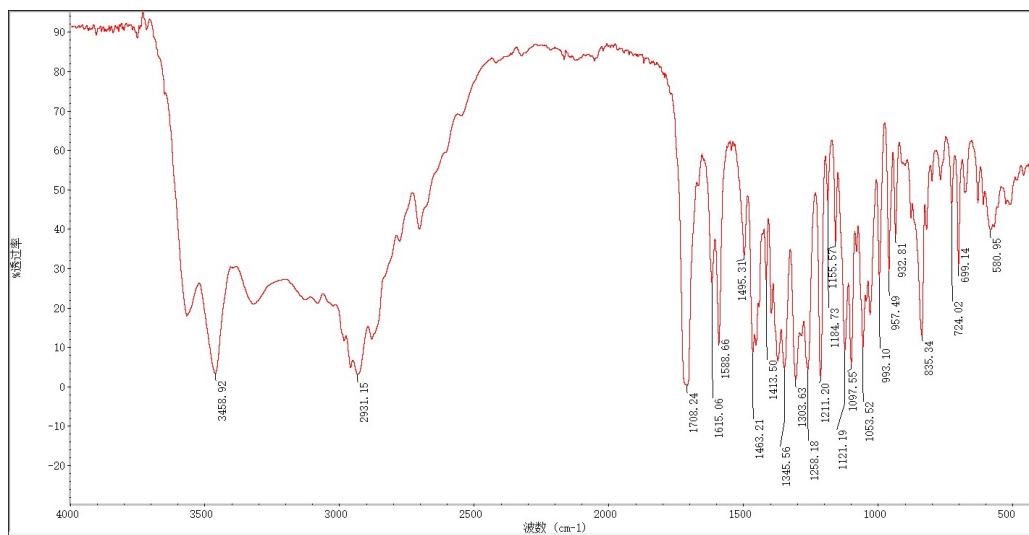


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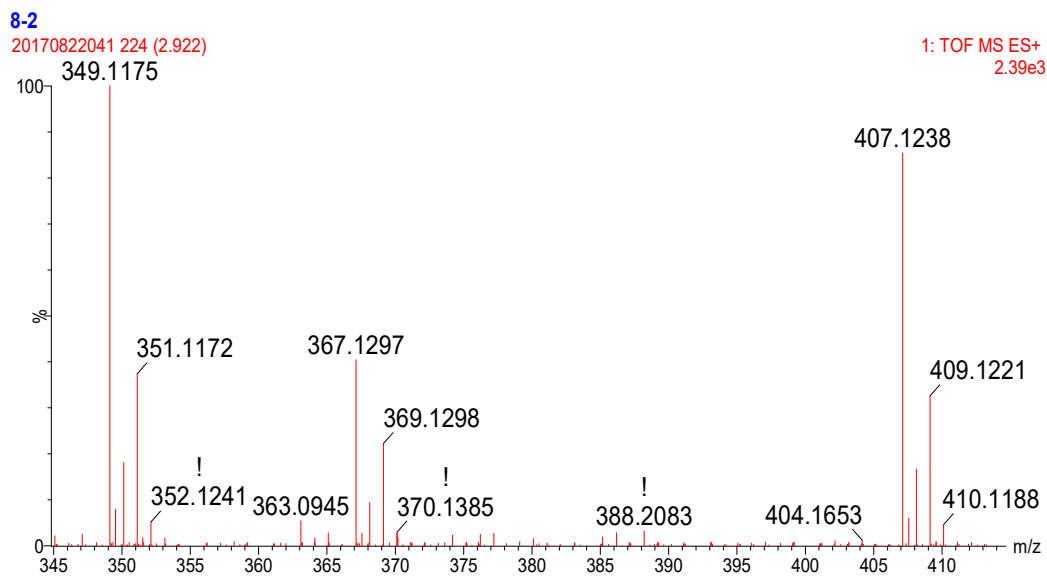


Fig. S2.8 HR-ESI-MS spectrum of compound (2)

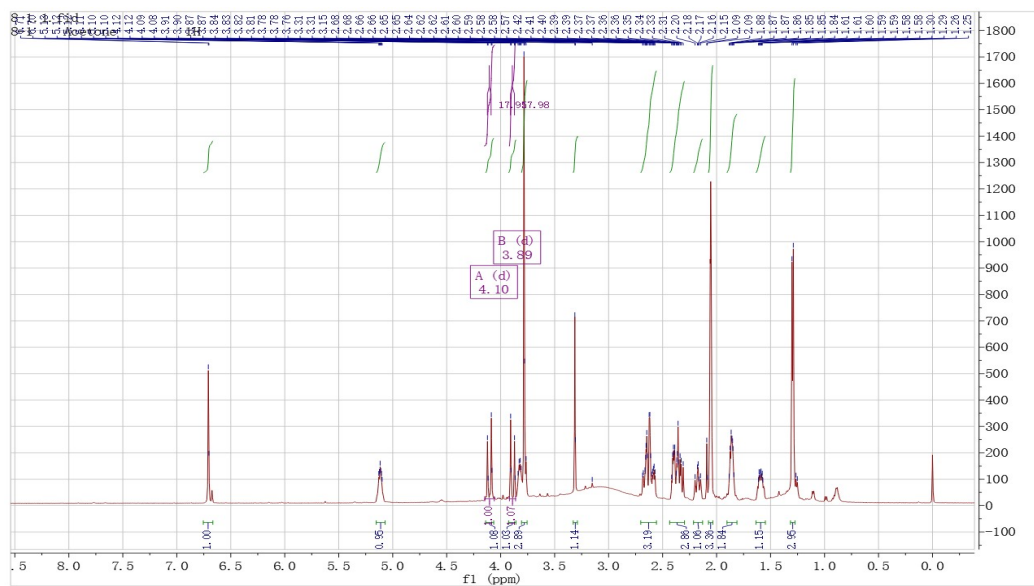


Fig. S3.1 ¹H-NMR spectrum of compound (4)

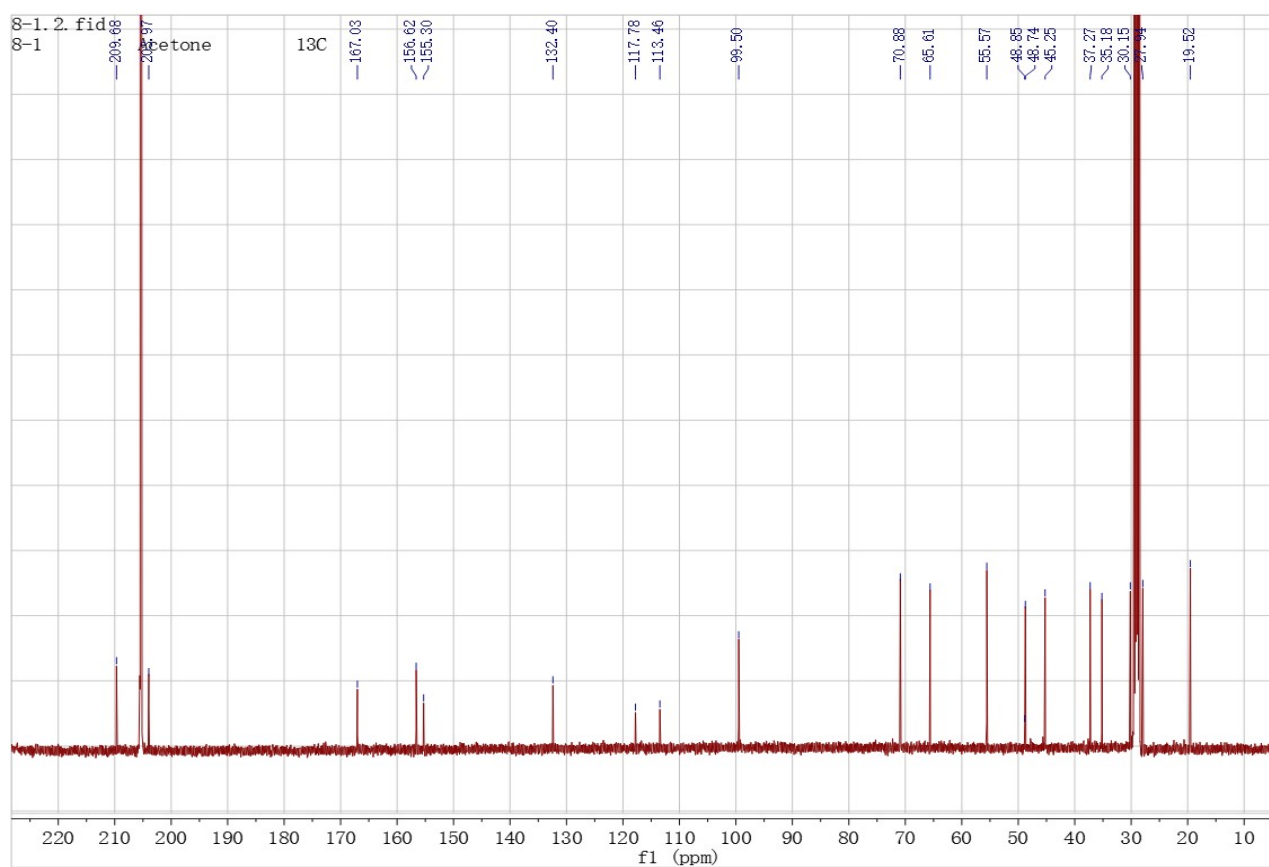


Fig. S3.2 ¹³C-NMR spectrum of compound (4)

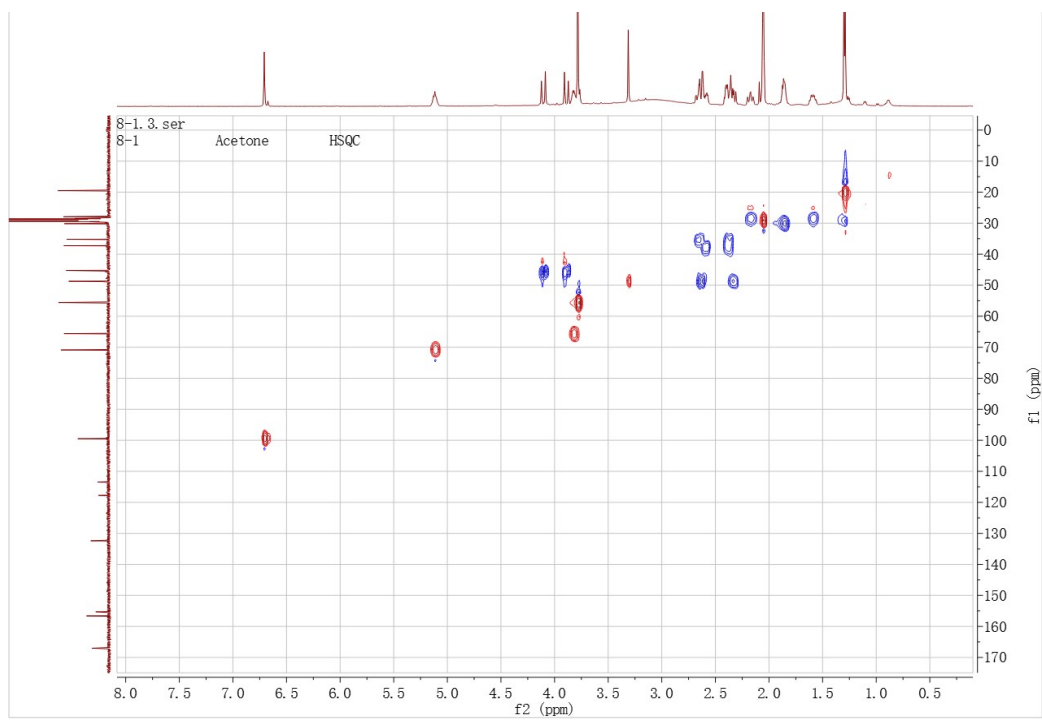


Fig. S3.3 HSQC spectrum of compound (4)

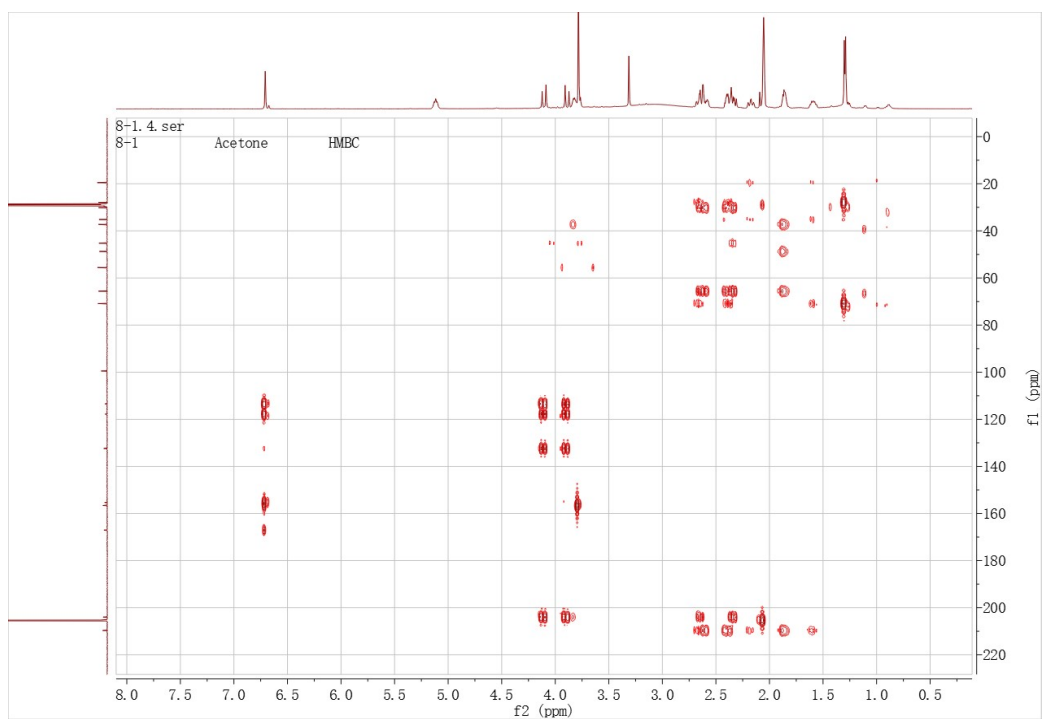


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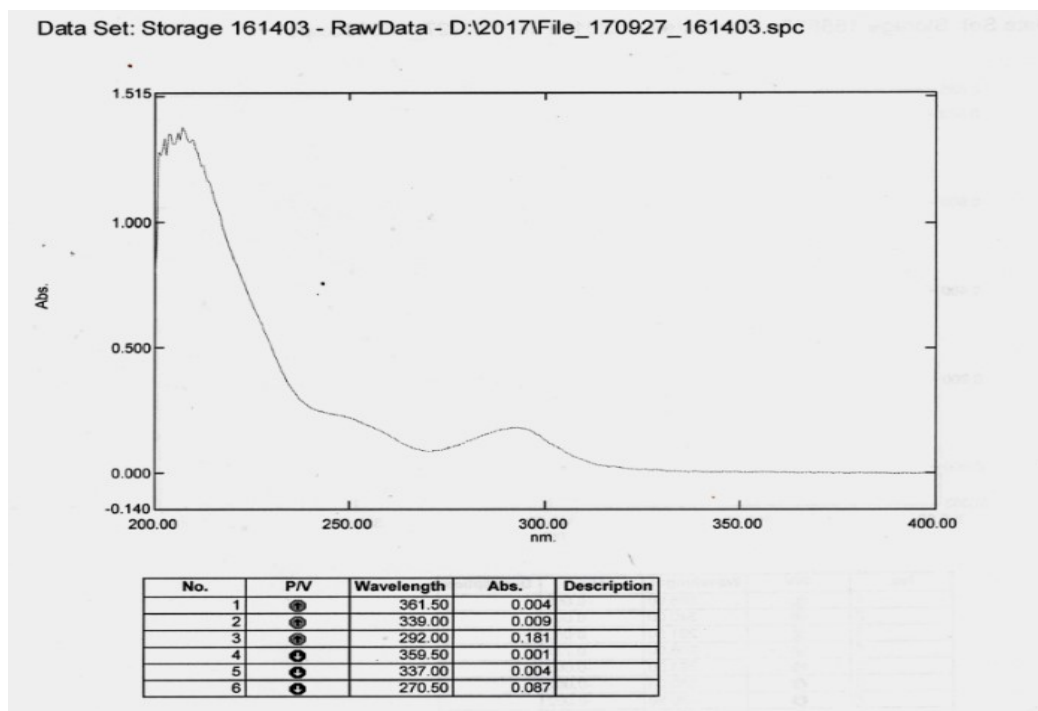


Fig. S3.5 UV spectrum of compound (4)

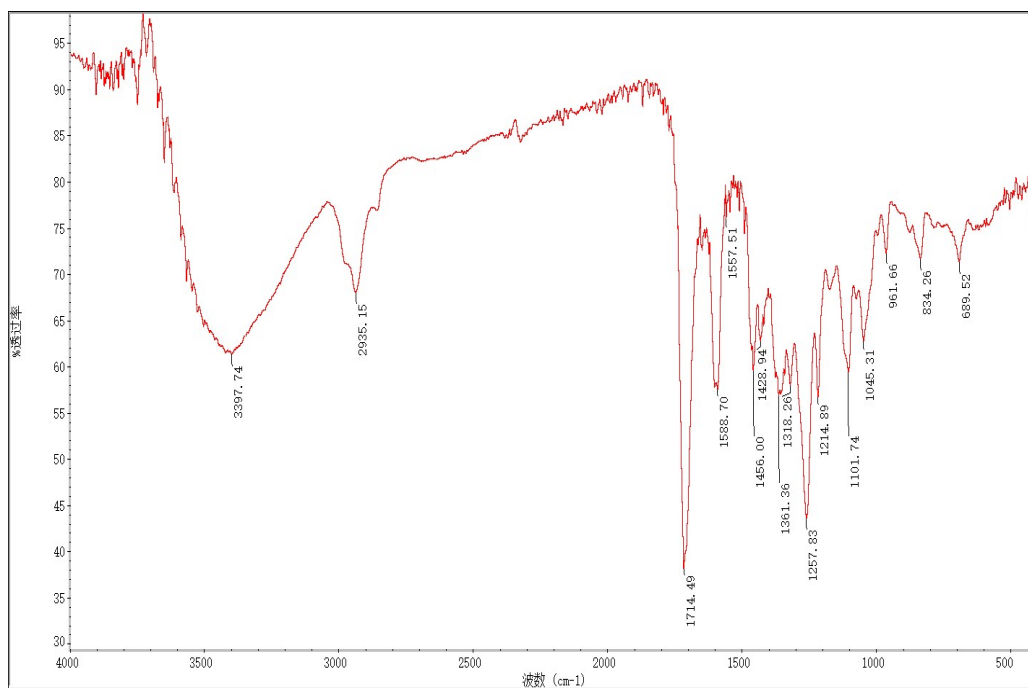


Fig. S3.6 IR spectrum of compound (4)

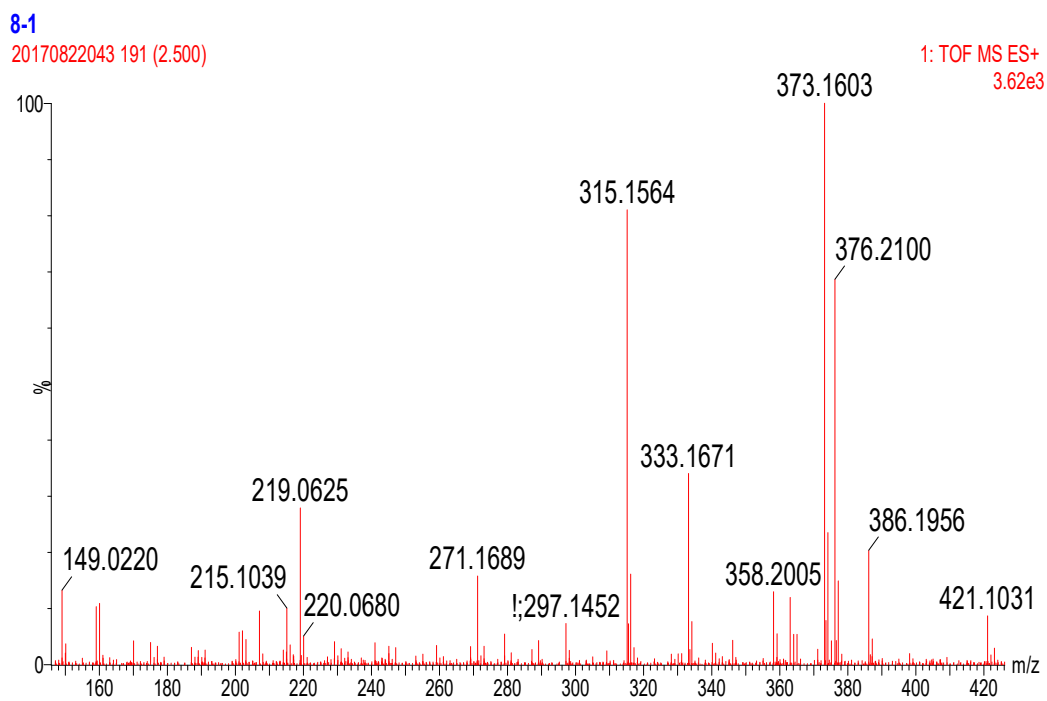


Fig. S3.7 HR-ESI-MS spectrum of compound (4)

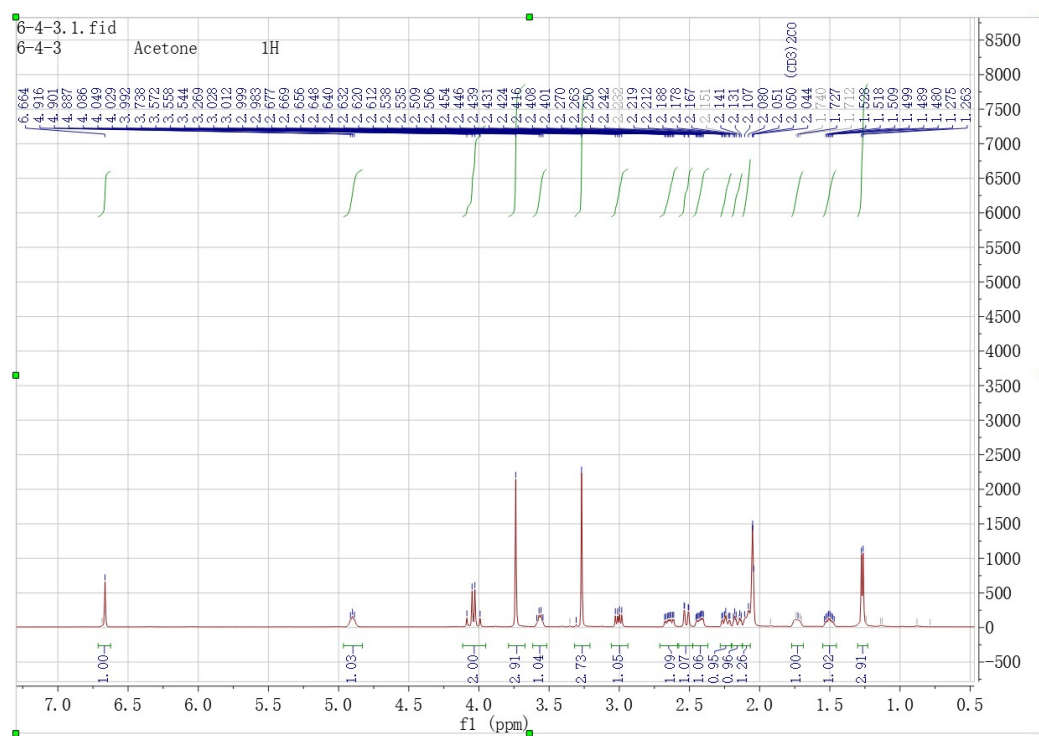


Fig. S4.1 ^1H -NMR spectrum of compound (5)

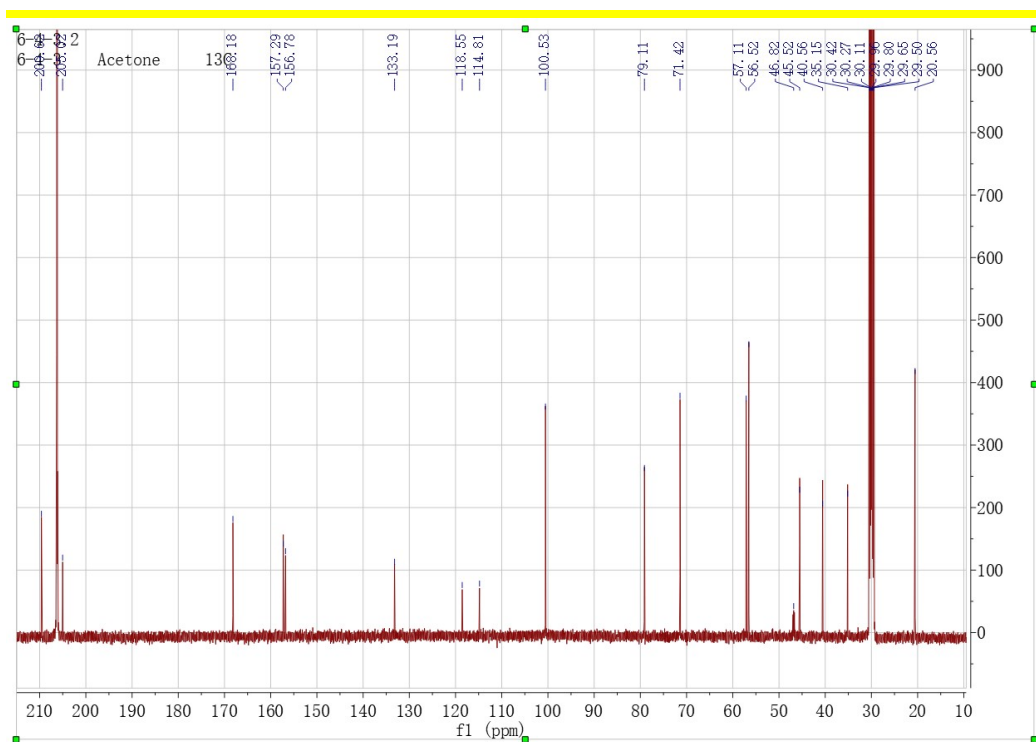


Fig. S4.2 ^{13}C -NMR spectrum of compound (5)

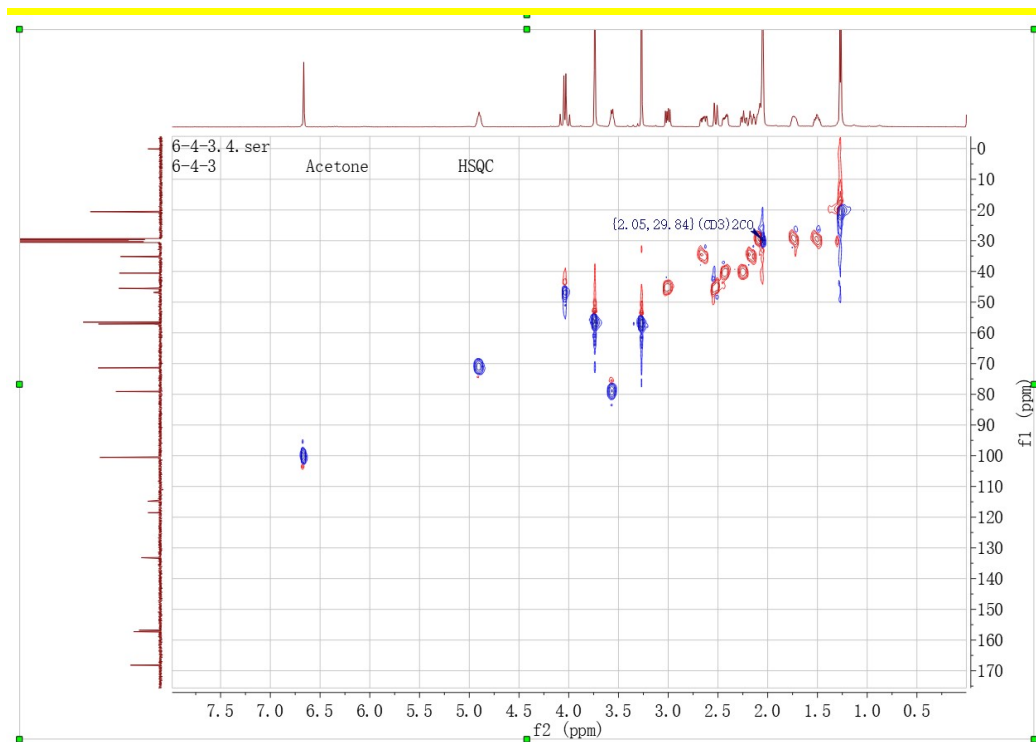


Fig. S4.3 HSQC spectrum of compound (5)

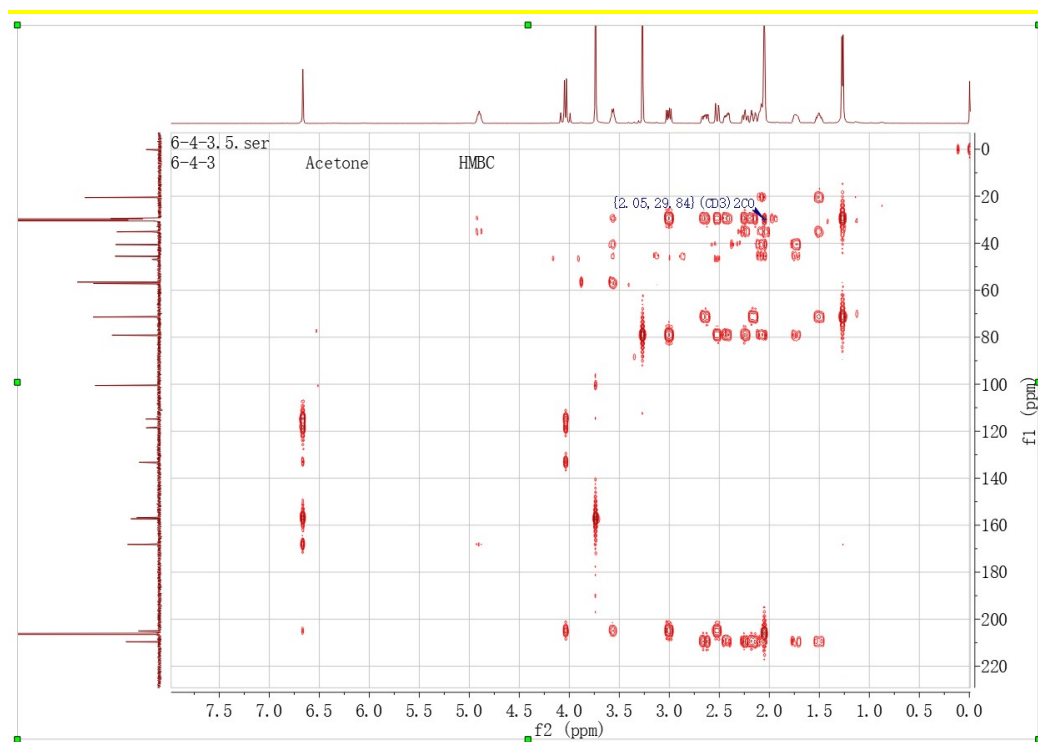


Fig. S4.4 HMBC spectrum of compound (5)

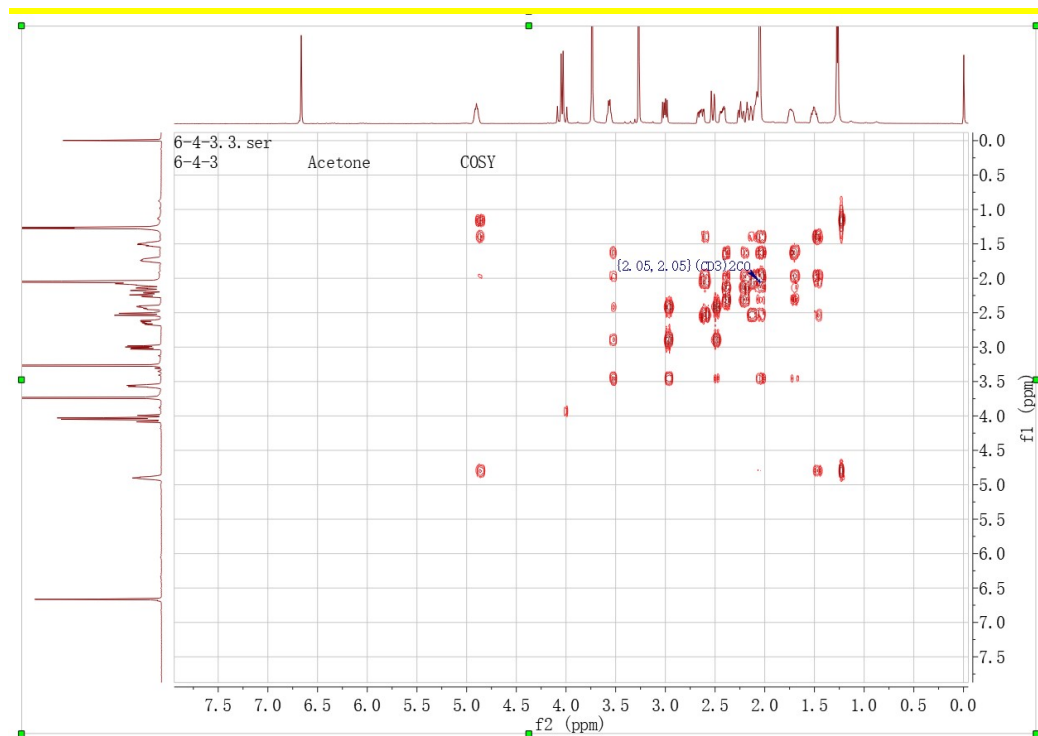


Fig. S4.5 ¹H-¹H COSY spectrum of compound (5)

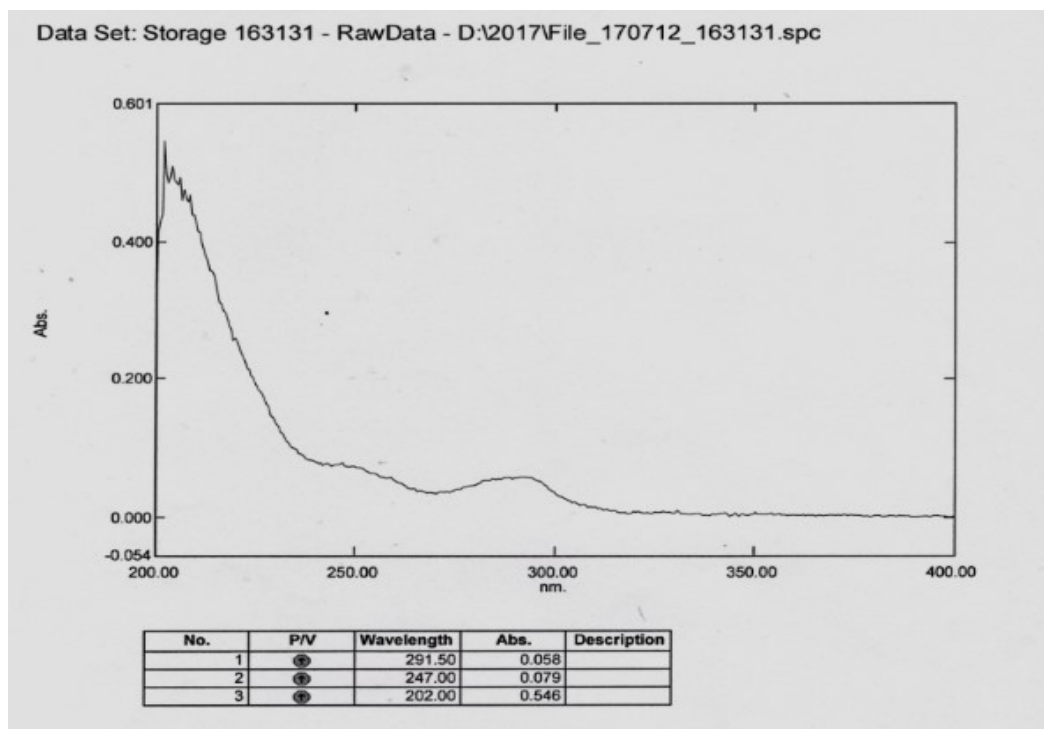


Fig. S4.6 UV spectrum of compound (5)

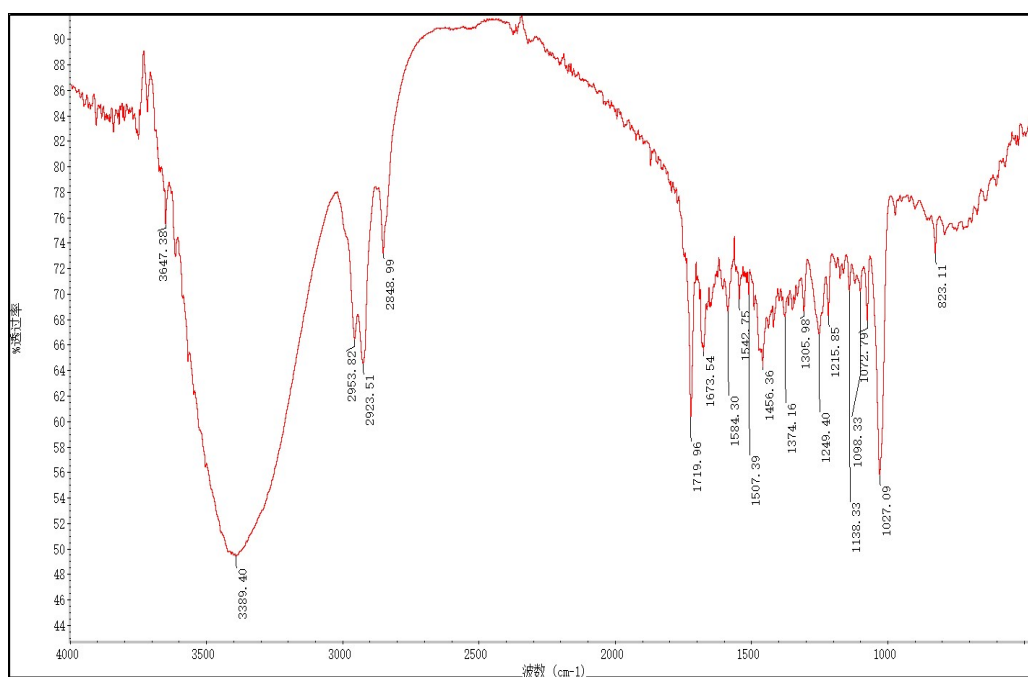


Fig. S4.7 IR spectrum of compound (5)

20170822044 252 (3.287)

1: TOF MS ES+
3.42e3

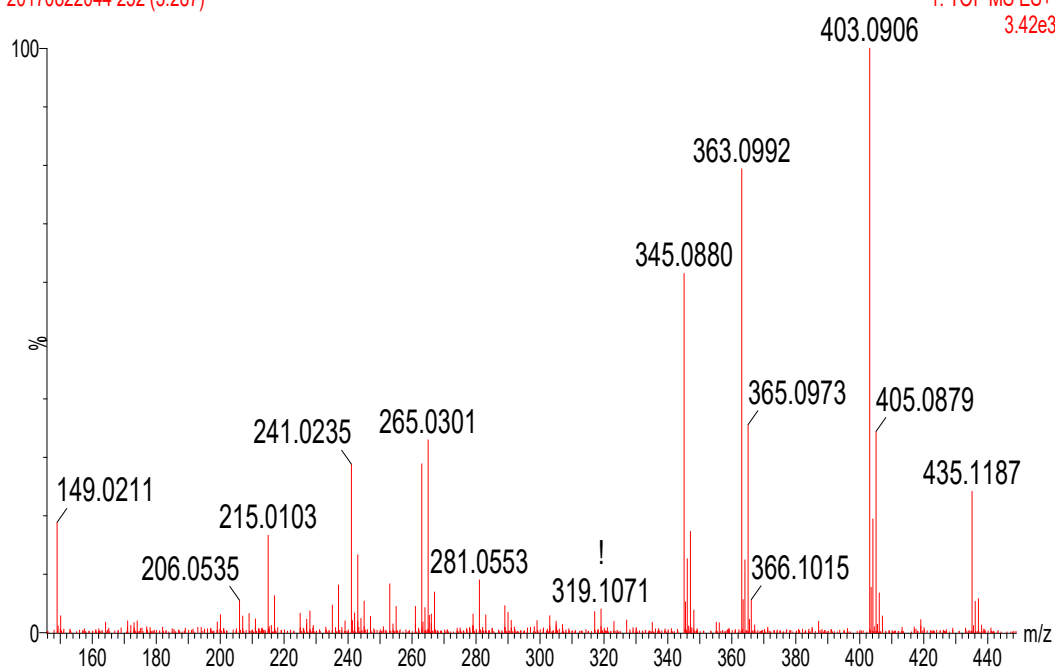


Fig. S4.8 HR-ESI-MS spectrum of compound (5)

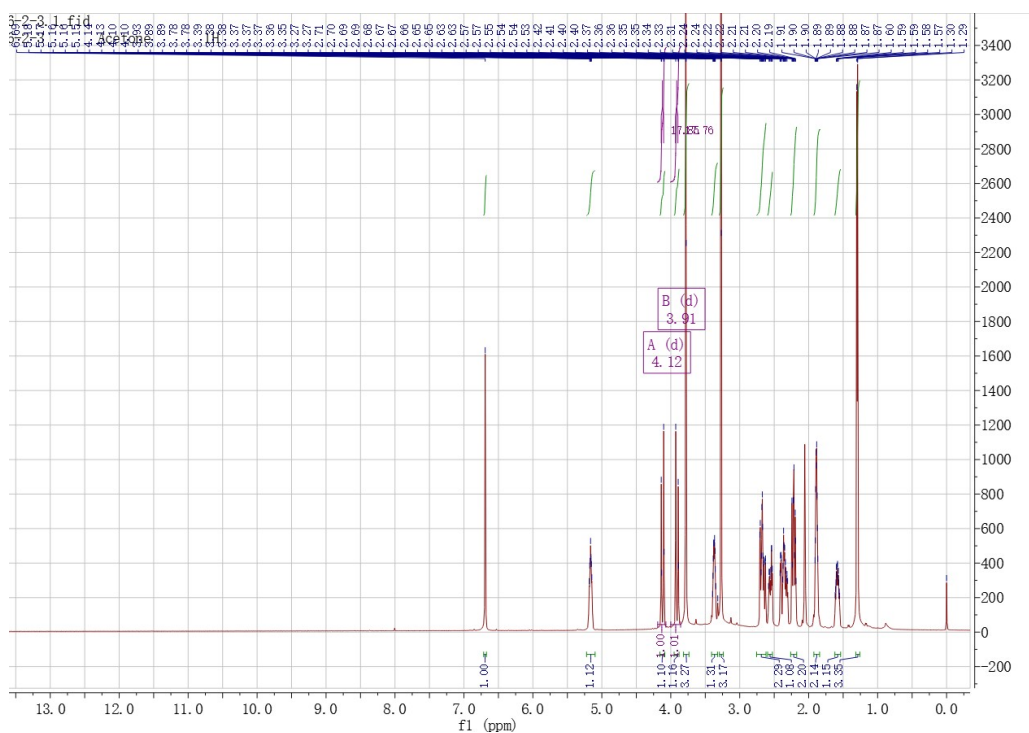


Fig. S5.1 ^1H -NMR spectrum of compound (6)

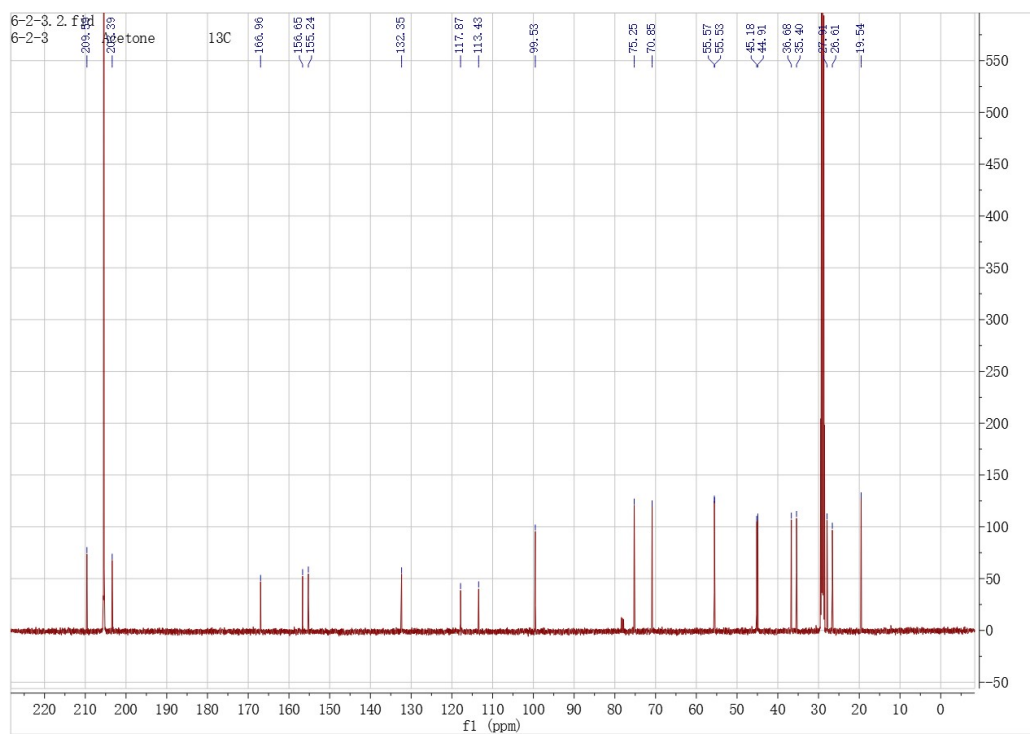


Fig. S5.2 ^{13}C -NMR spectrum of compound (6)



Fig. S5.3 HSQC spectrum of compound (6)

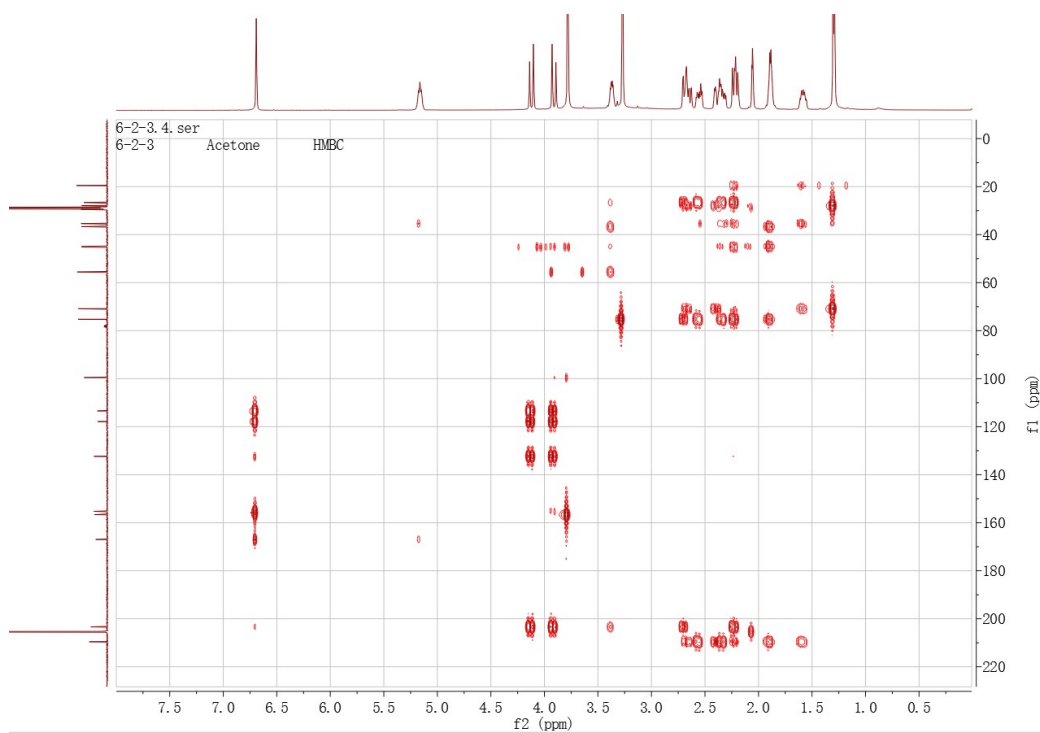


Fig. S5.4 HMBC spectrum of compound (6)

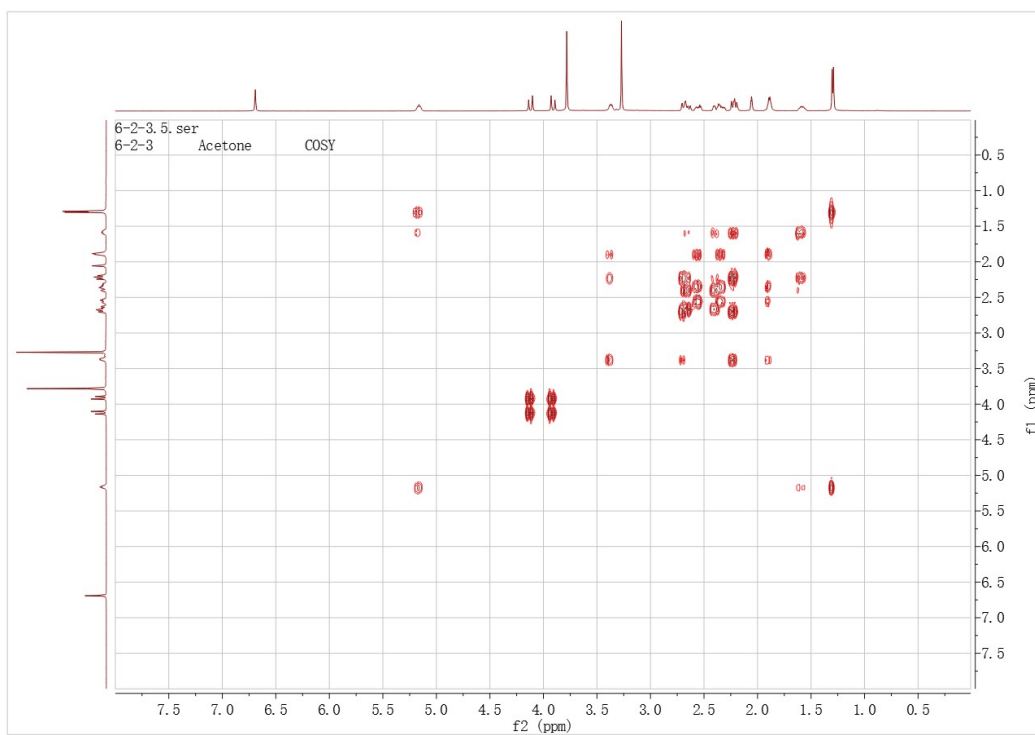


Fig. S5.5 ^1H - ^1H COSY spectrum of compound (6)

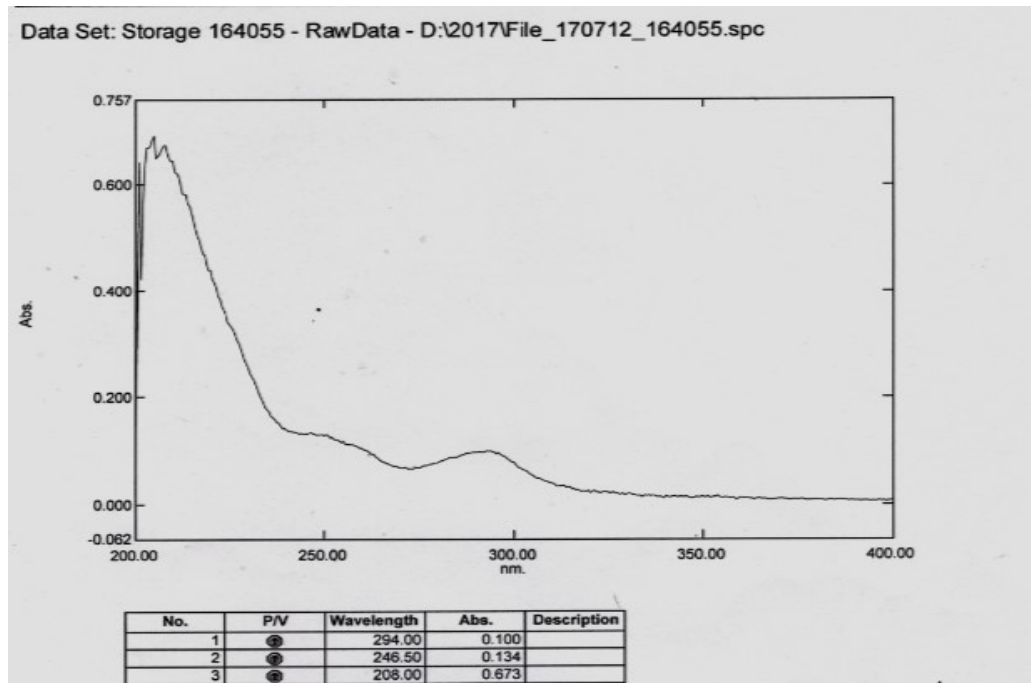


Fig. S5.6 UV spectrum of compound (6)

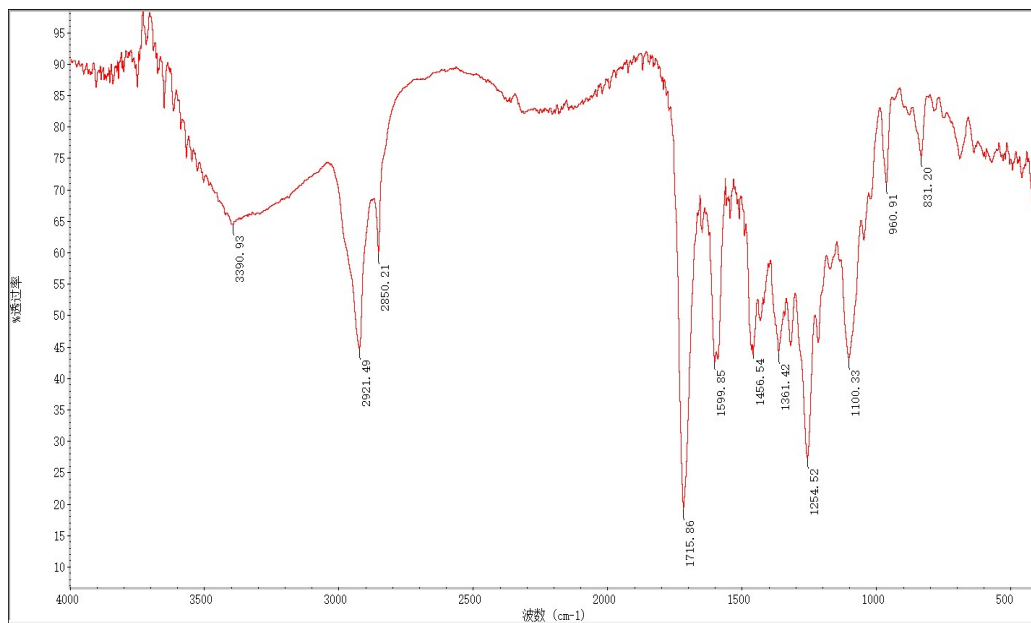


Fig. S5.7 IR spectrum of compound (6)

6-2-3

20170822045 238 (3.104)

1: TOF MS ES+
8.02e3

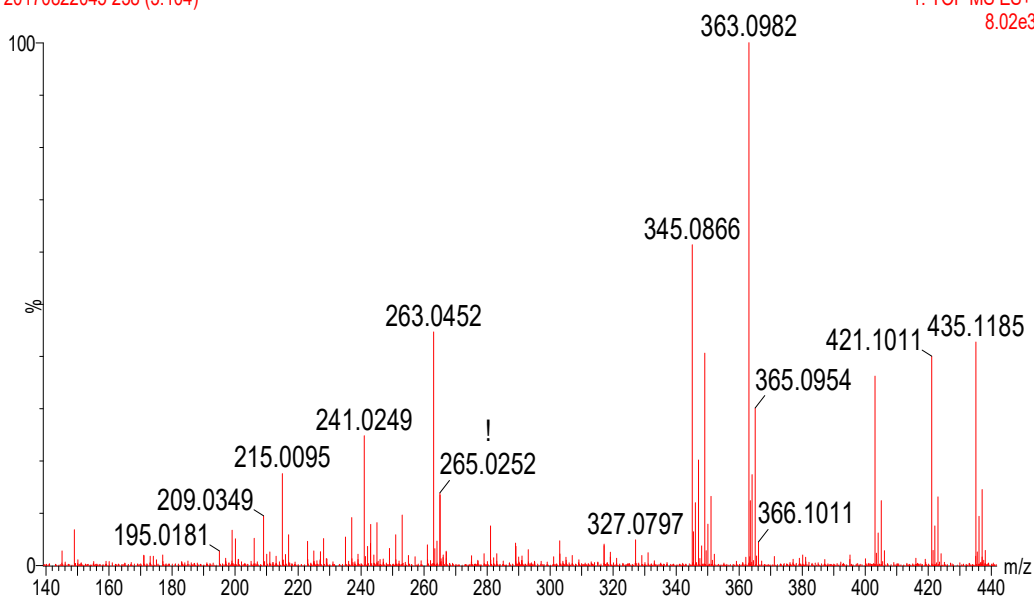


Fig. S5.8 HR-ESI-MS spectrum of compound (6)

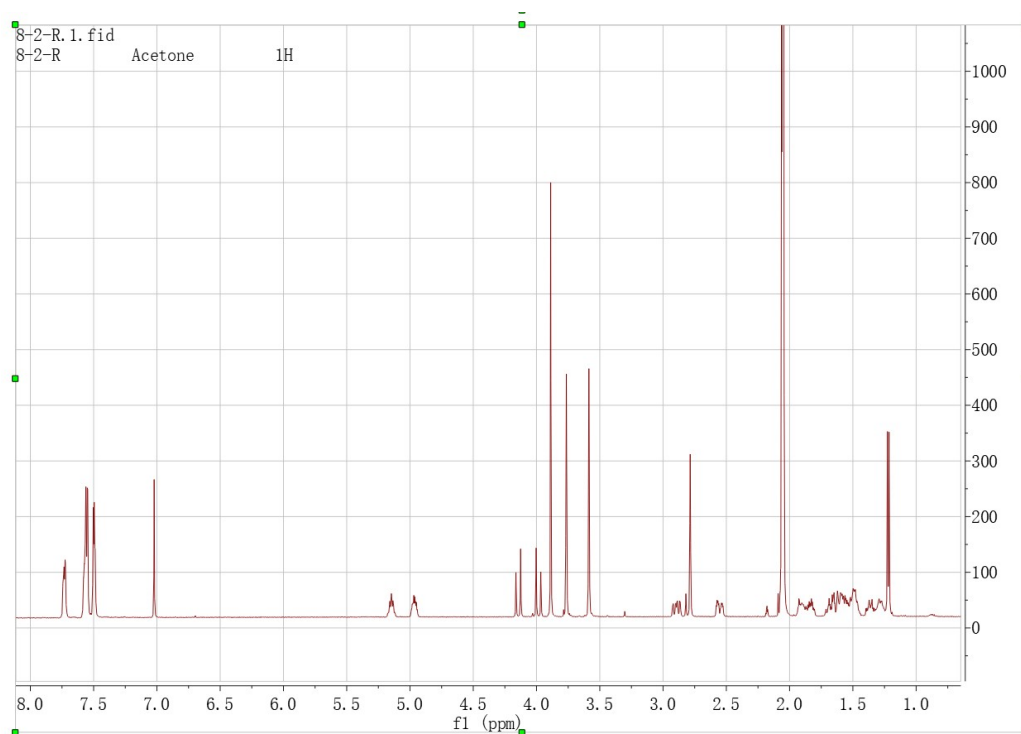


Fig. S6.1 ¹H NMR spectrum (600 MHz) of 2a in Acetone-*d*₆

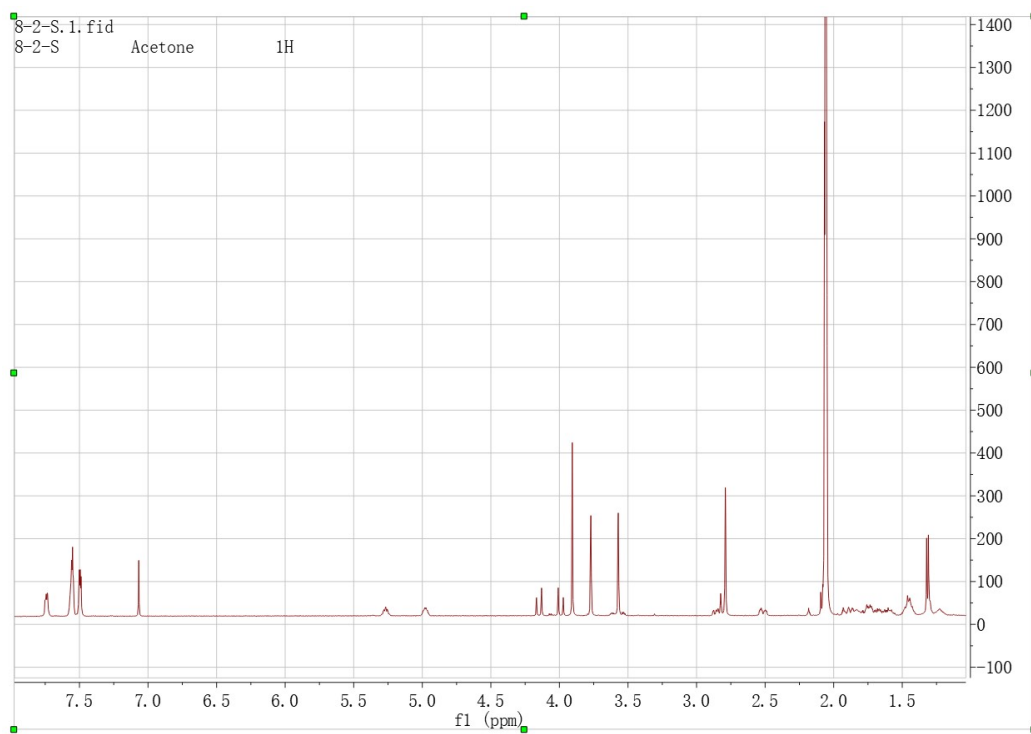


Fig. S6.2 ^1H NMR spectrum (600 MHz) of **2b** in Acetone- d_6

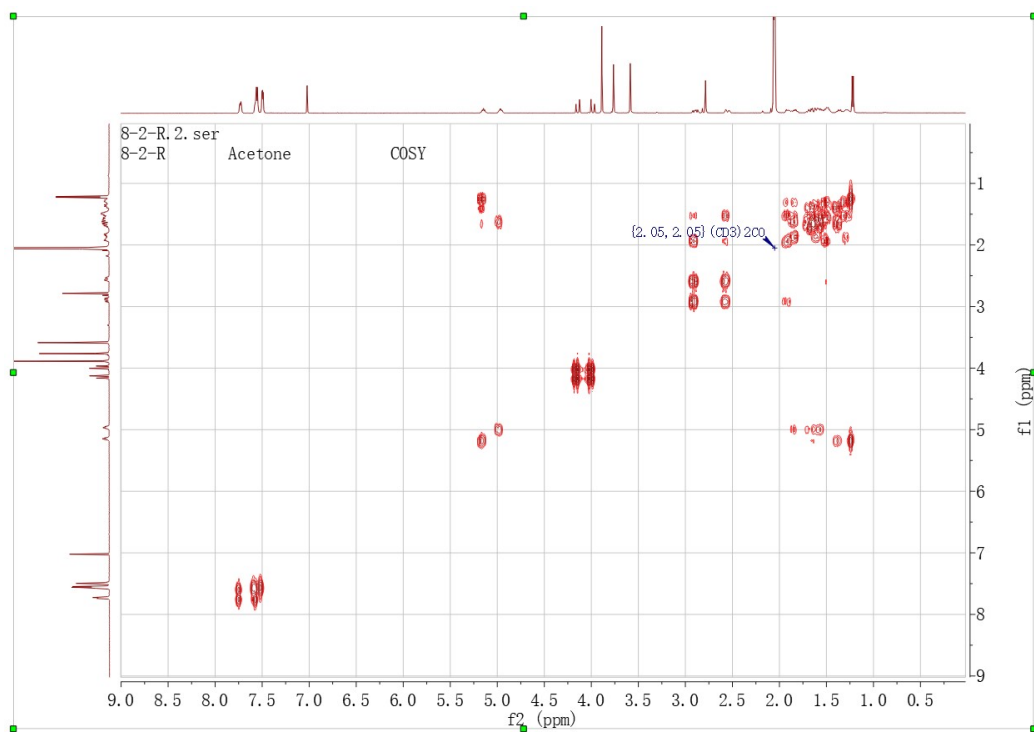


Fig. S6.3 ^1H - ^1H COSY spectrum (600 MHz) of **2a** in Acetone- d_6

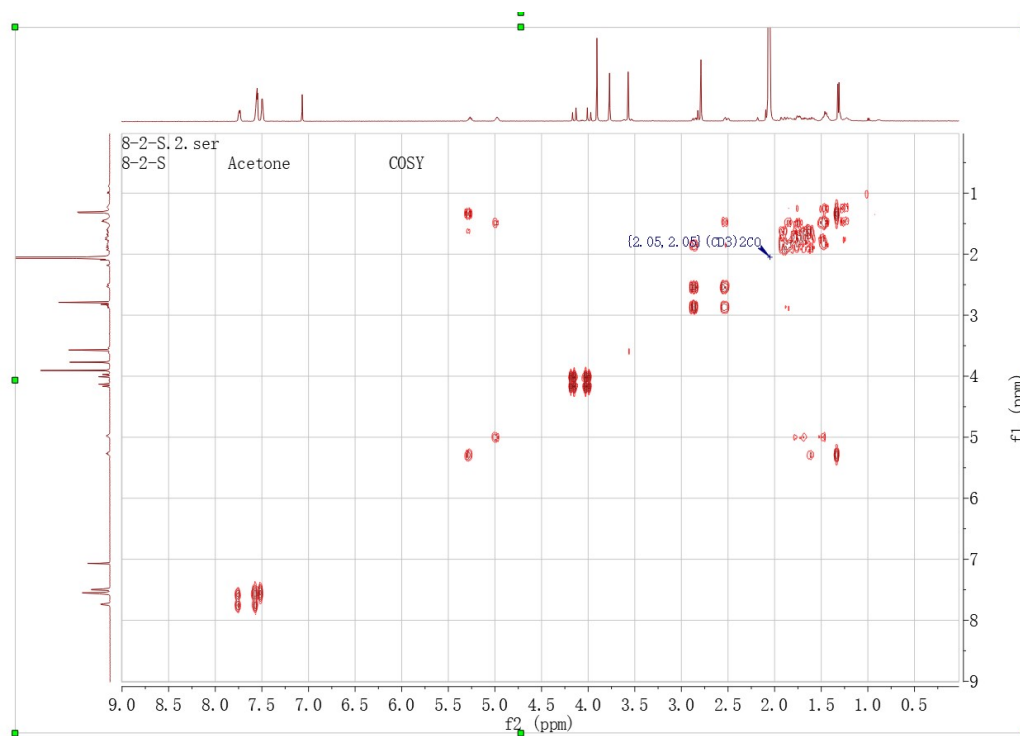


Fig. S6.4 ^1H - ^1H COSY spectrum (600 MHz) of **2b** in Acetone- d_6

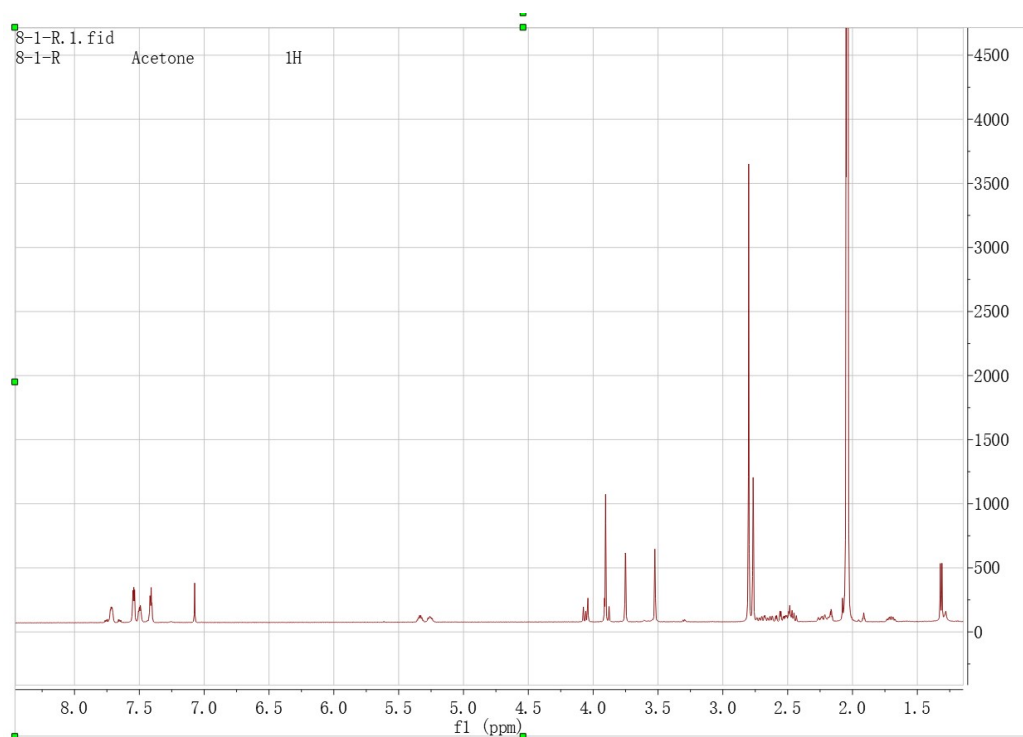


Fig. S7.1 ^1H NMR spectrum (600 MHz) of **4a** in Acetone- d_6

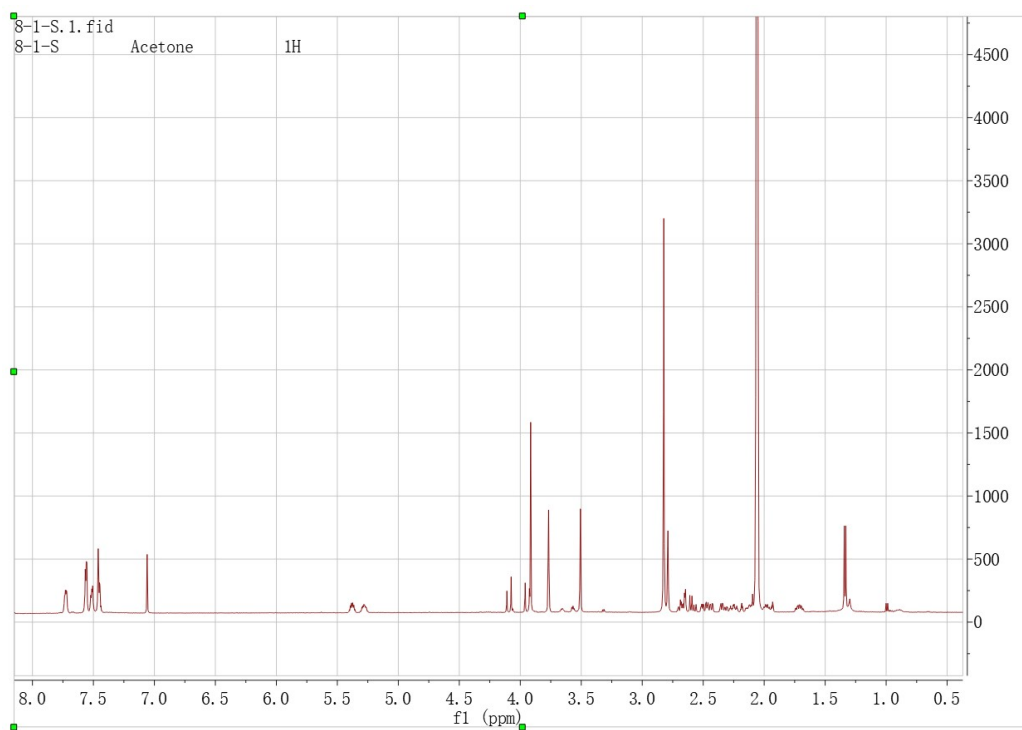


Fig. S7.2 ^1H NMR spectrum (600 MHz) of **4b** in Acetone- d_6



Fig. S7.3 ^1H - ^1H COSY spectrum (600 MHz) of **4a** in Acetone- d_6

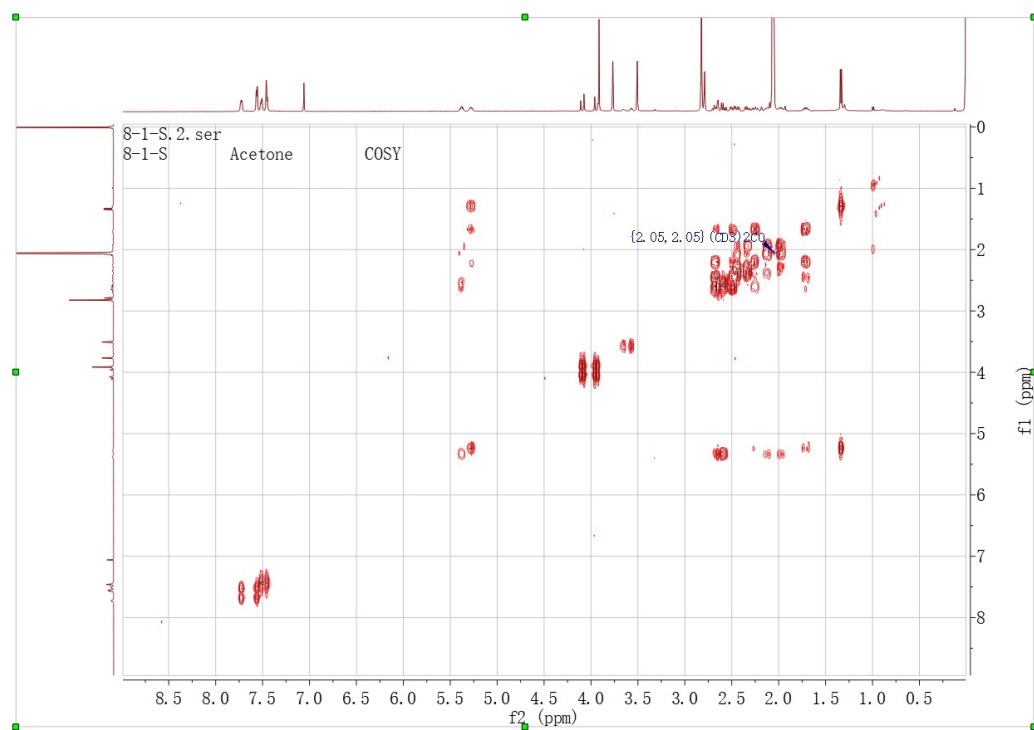


Fig. S7.4 ^1H - ^1H COSY spectrum (600 MHz) of **4b** in Acetone- d_6

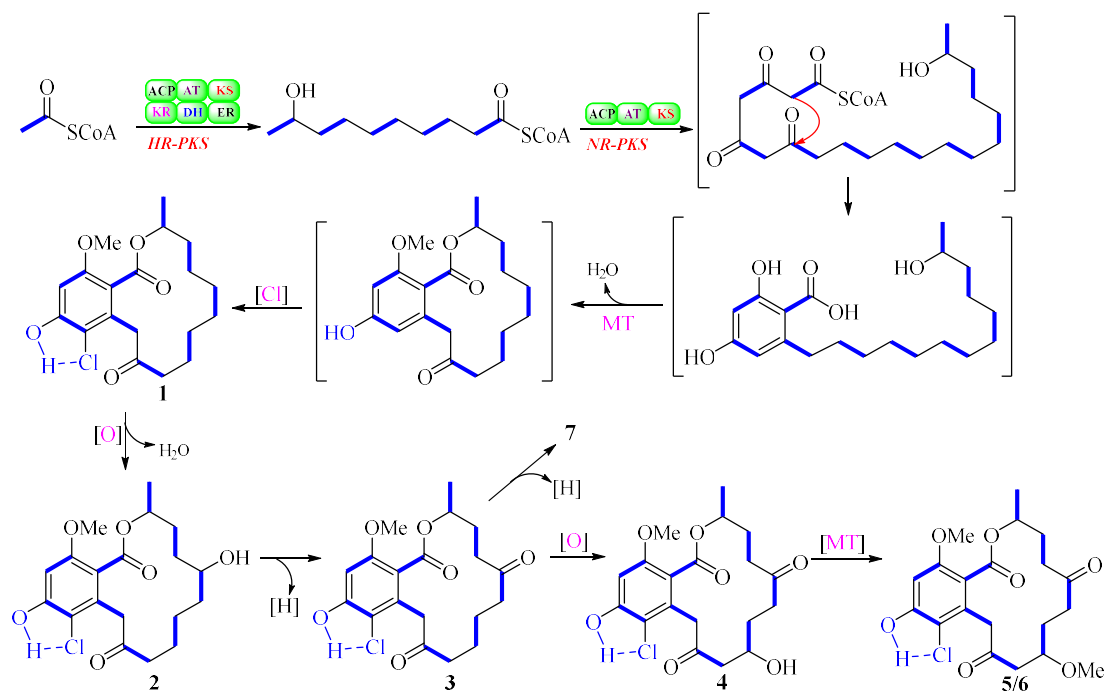


Fig. S8.1 The possible biosynthesis of **1-7**.