

Supporting Information

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Phenolic Derivatives from *Dioscorea bulbifera*

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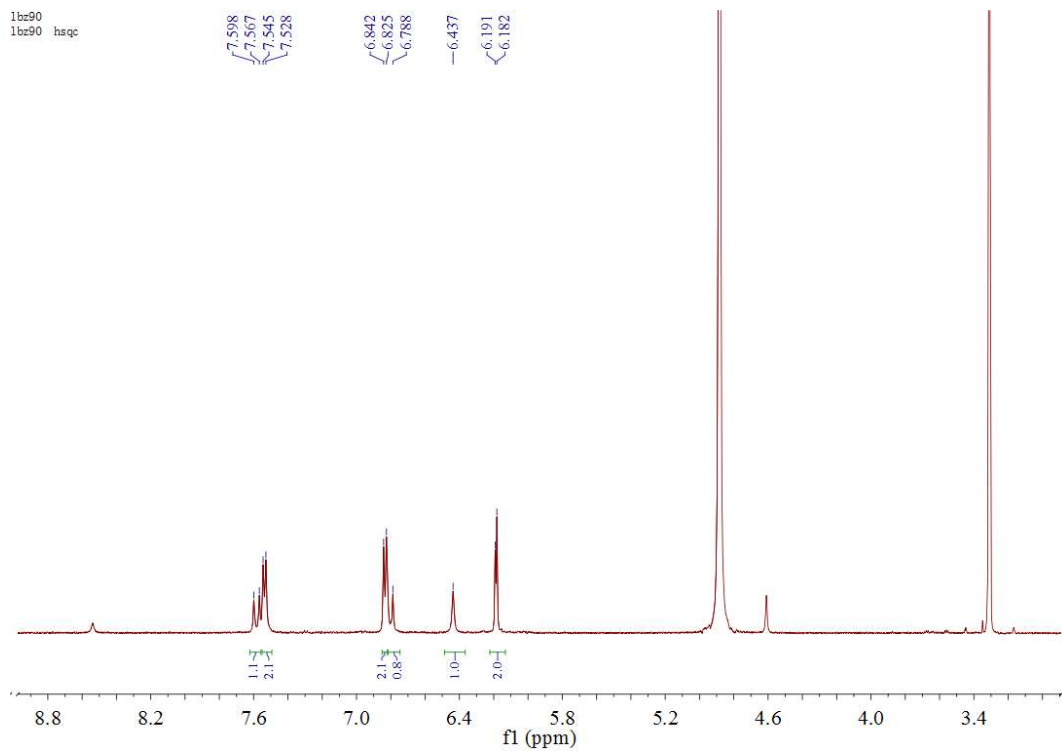


Figure S1. ^1H NMR of compound **1** in CD_3OD (500 MHz)

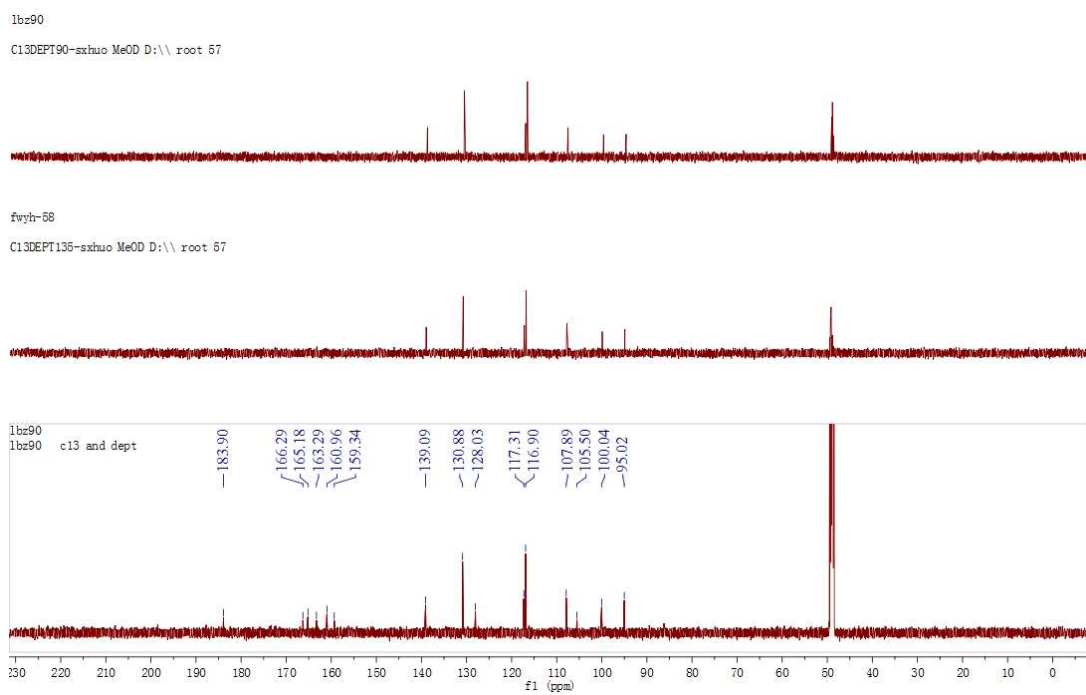


Figure S2. ^{13}C NMR of compound **1** in CD_3OD (125 MHz)

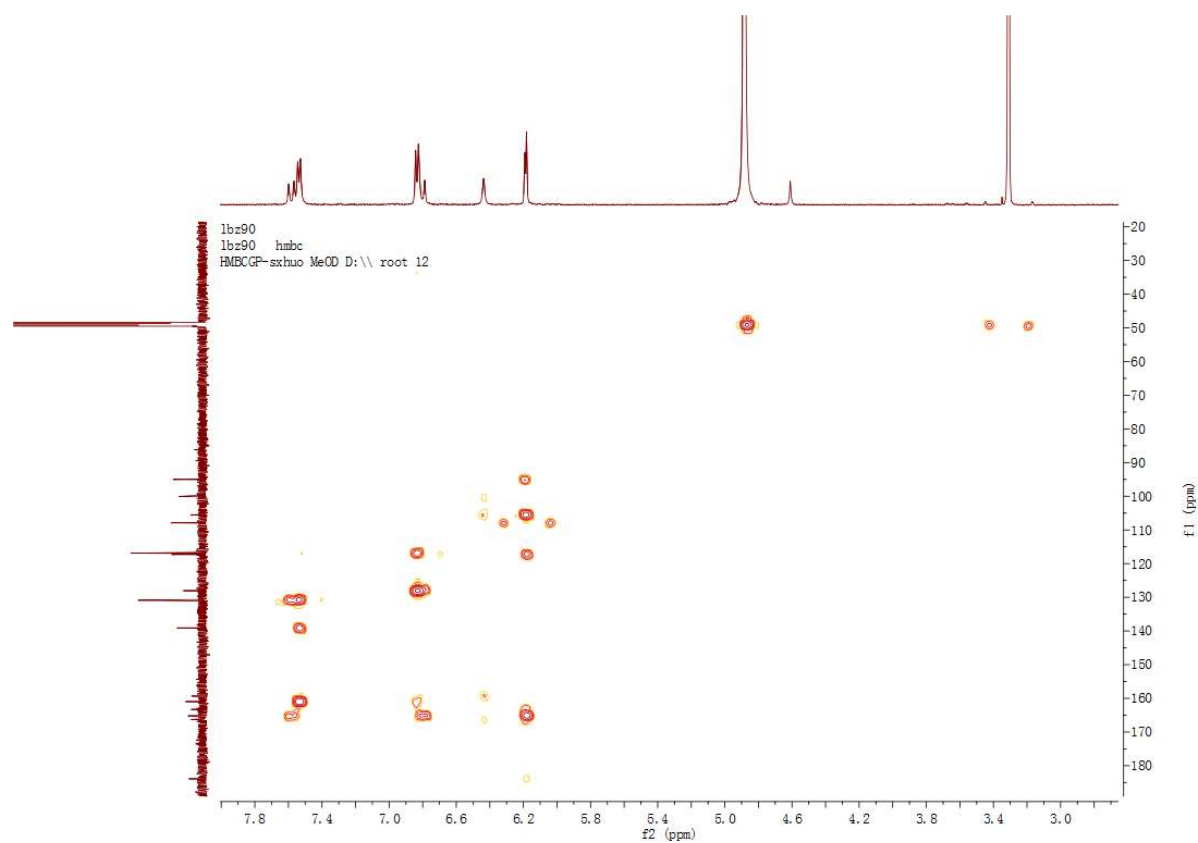


Figure S3. HMBC of compound **1** in CD₃OD

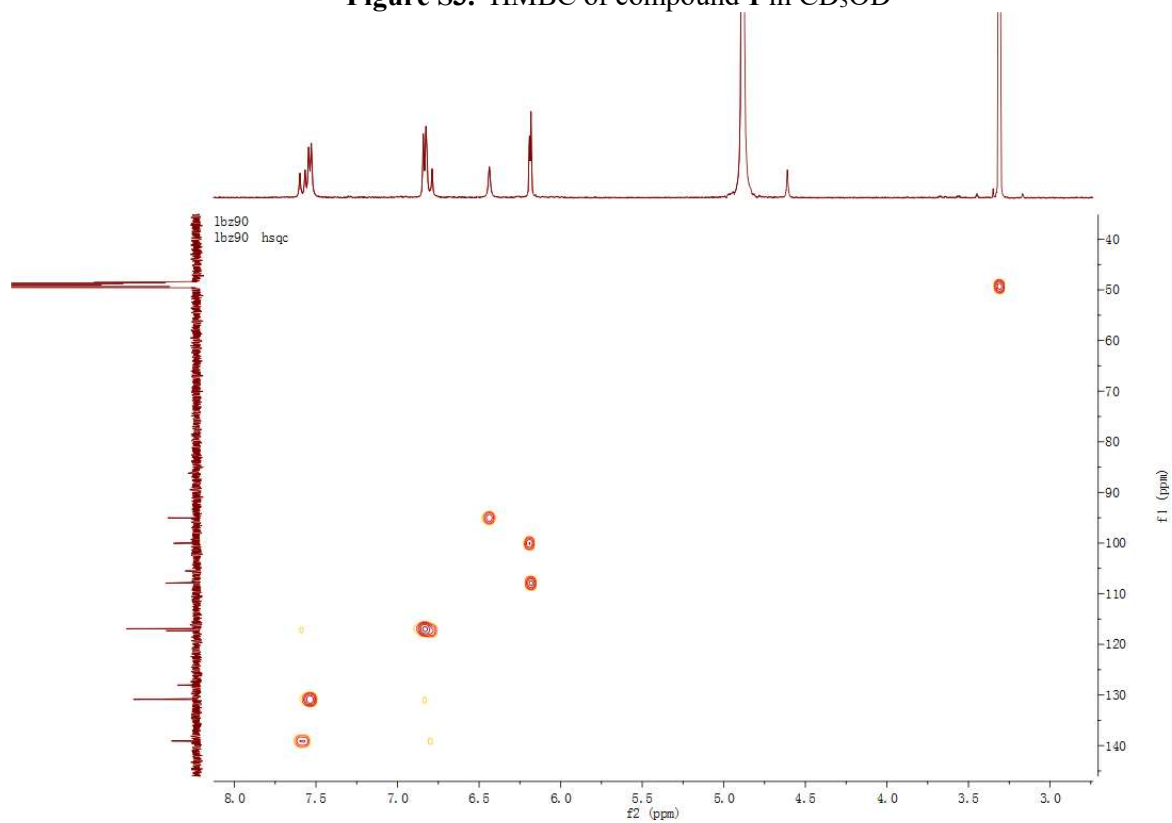


Figure S4. HSQC of compound **1** in CD₃OD

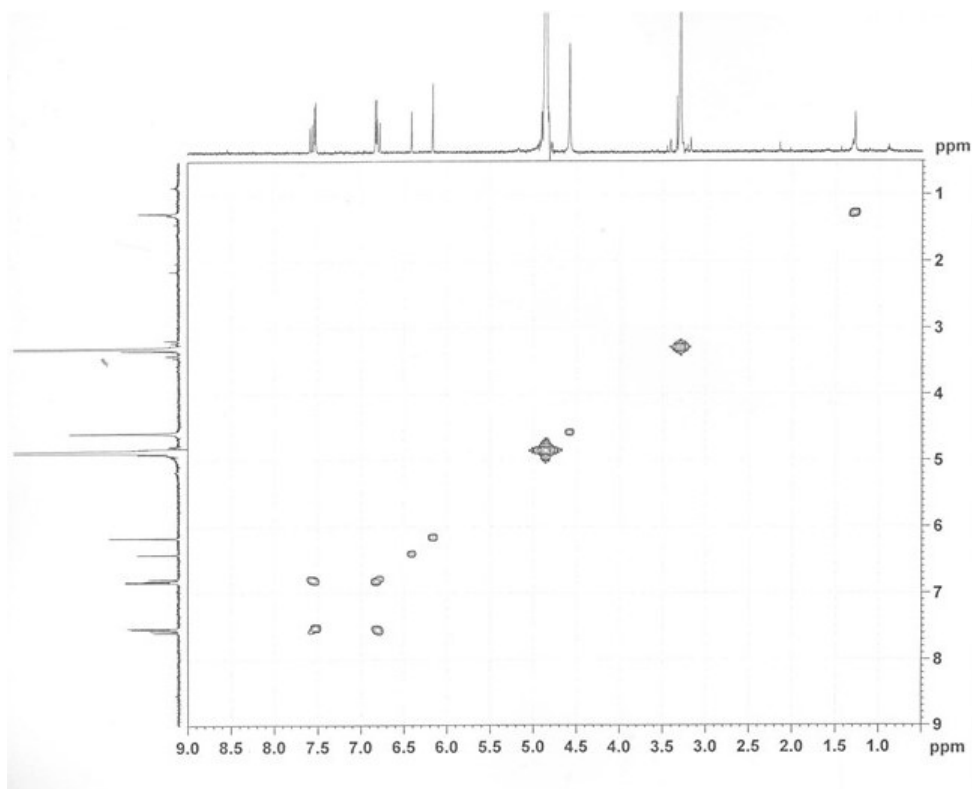
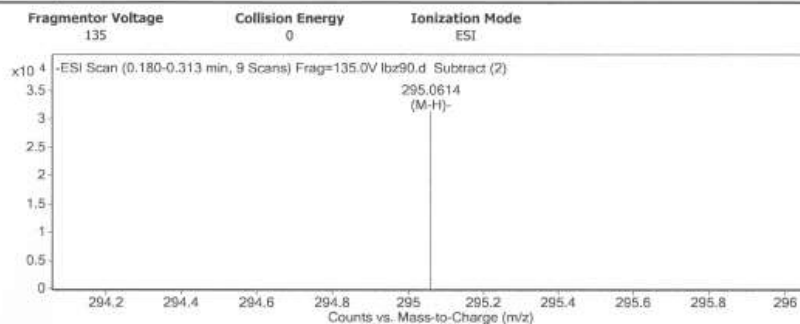


Figure S5. ^1H - ^1H COSY of compound 1 in CD_3OD

User Spectra



Peak List

m/z	z	Abund	Formula	Ion
255.2332		634.97		
295.0614	1	31338.09	$\text{C}_{17}\text{H}_{12}\text{O}_5$	(M-H) ⁻
296.0664	1	10106.54	$\text{C}_{17}\text{H}_{12}\text{O}_5$	(M-H) ⁻
297.0697	1	1883.86	$\text{C}_{17}\text{H}_{12}\text{O}_5$	(M-H) ⁻
358.0571	1	694.33		
409.054	1	8791.35		
410.0587	1	3243.76		
411.0635	1	713.84		

Formula Calculator Element Limits

Element	Min	Max
C	3	60
H	0	120
O	0	30

Formula Calculator Results

Formula	CalculatedMass	CalculatedMz	Mz	Diff. (mDa)	Diff. (ppm)	DBE
$\text{C}_{17}\text{H}_{12}\text{O}_5$	296.0685	295.0612	295.0614	-0.7	-2.4	12.0000

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Figure S6. HR-ESIMS of compound 1

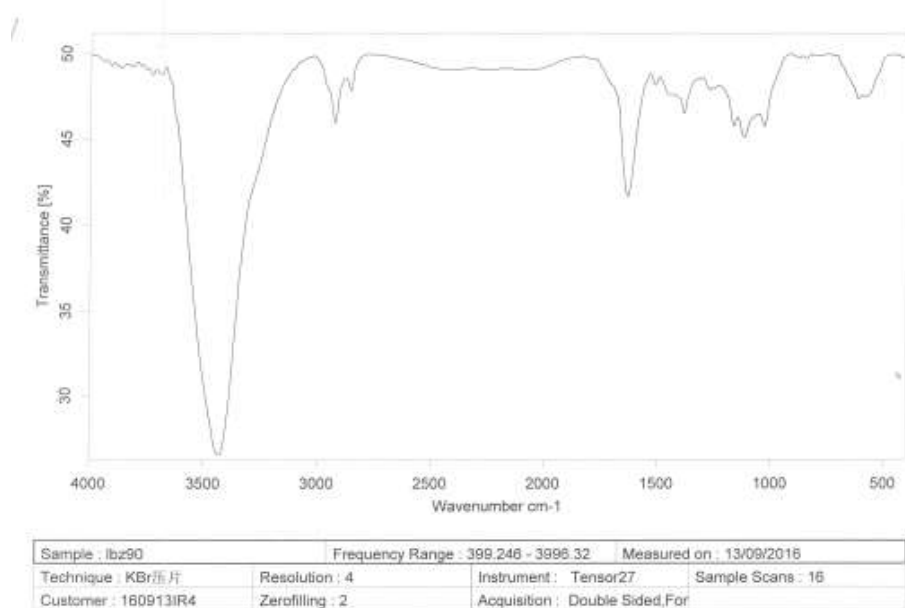


Figure S7. IR of compound 1

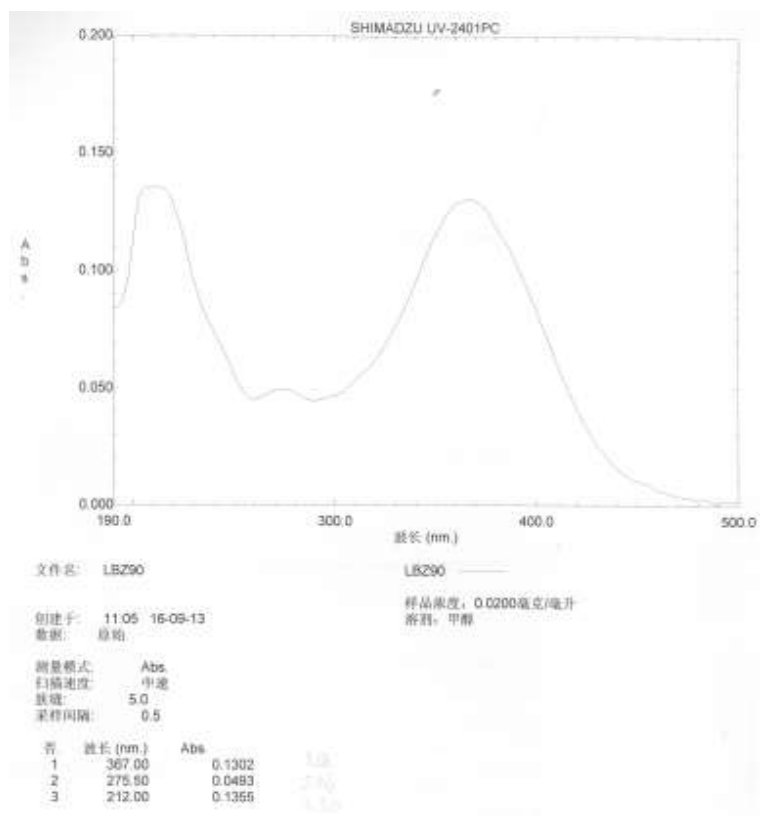


Figure S8. UV of compound 1

Optical rotation measurement

Model : P-1020 (A060460638)

No.	Sample	Mode	Data	Monitor Blank	Temp. Cell Temp Point	Date Comment Sample Name	Light Filter Operator	Cycle Time Integ Time
No.1	67 (1/3)	Sp.Rot	-23.0000	-0.0023 0.0000	25.4 10.00	Fri Sep 09 21:21:58 2016 0.00100g/mL MeOH LBZ90	Na 589nm	2 sec 10 sec
No.2	67 (2/3)	Sp.Rot	-24.0000	-0.0024 0.0000	25.4 10.00	Fri Sep 09 21:22:11 2016 0.00100g/mL MeOH LBZ90	Na 589nm	2 sec 10 sec
No.3	67 (3/3)	Sp.Rot	-21.0000	-0.0021 0.0000	25.4 10.00	Fri Sep 09 21:22:25 2016 0.00100g/mL MeOH LBZ90	Na 589nm	2 sec 10 sec

→ 6667

Figure S9. Optical Rotation of compound 1

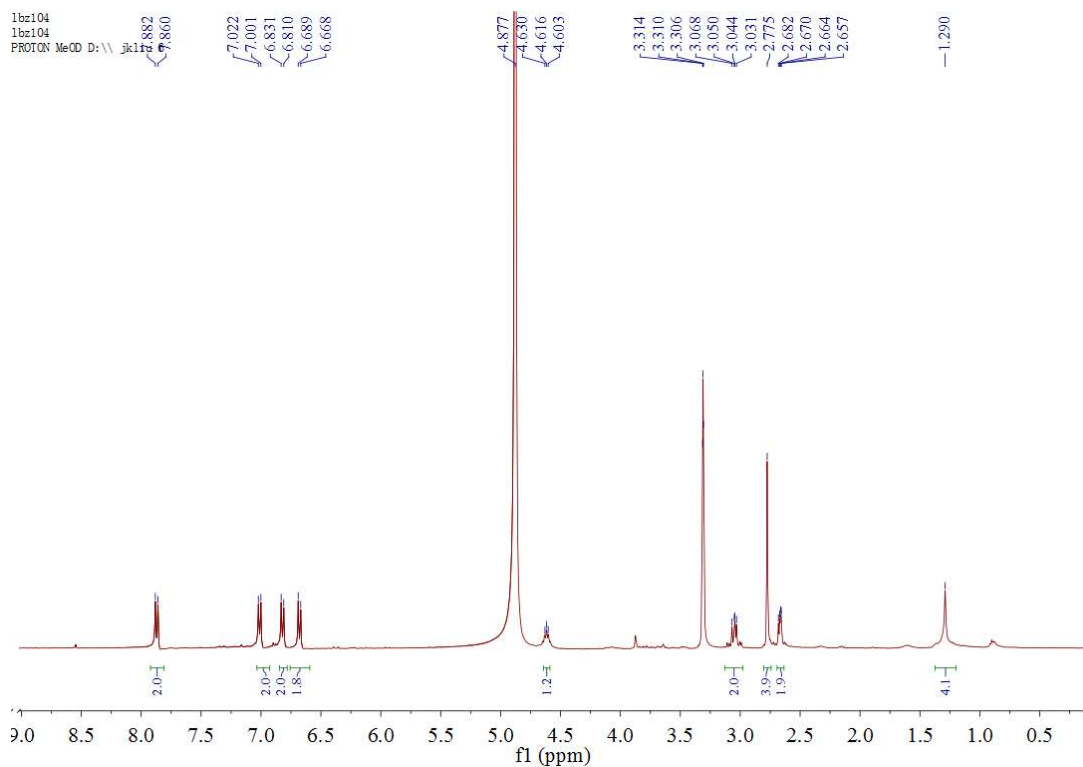


Figure S10. ¹H NMR of 2 in CD₃OD (400 MHz)

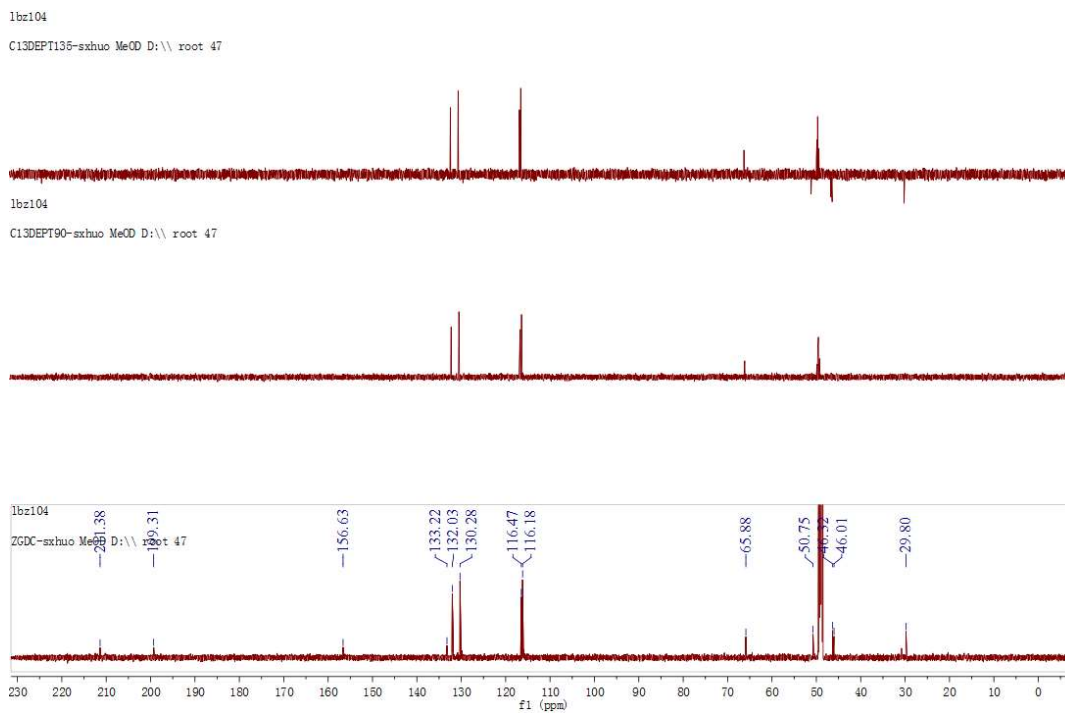


Figure S11. ^{13}C NMR of compound **2** in CD_3OD (100 MHz)

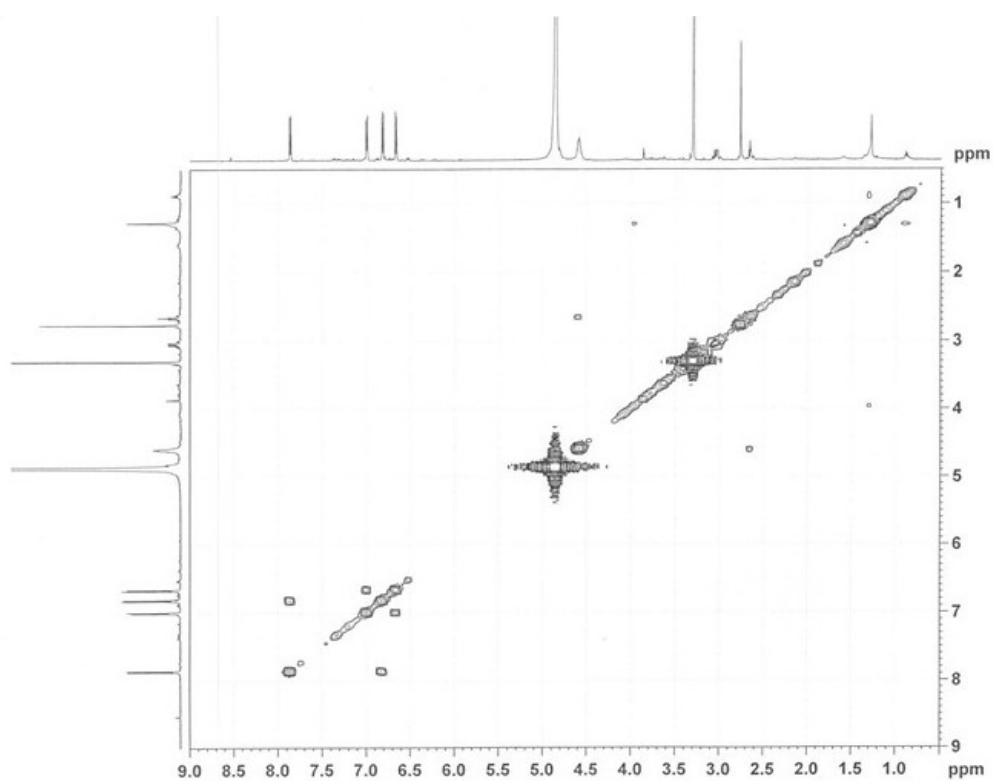


Figure S12. ^1H - ^1H COSY of compound **2** in CD_3OD

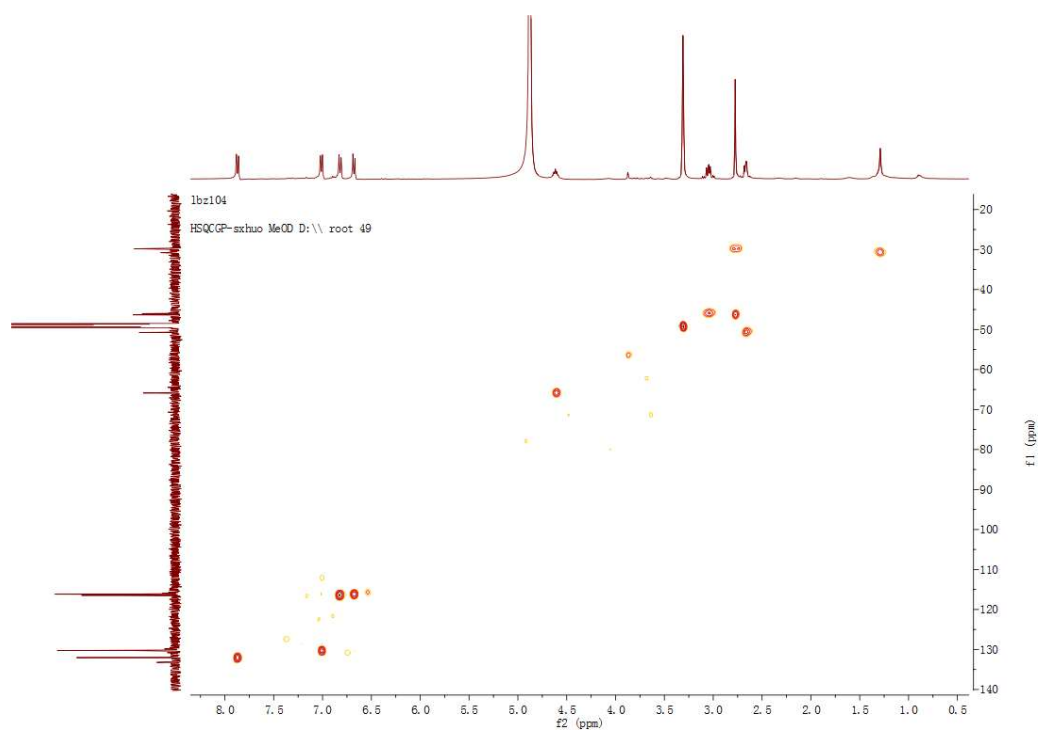


Figure S13. HSQC of compound **2** in CD₃OD

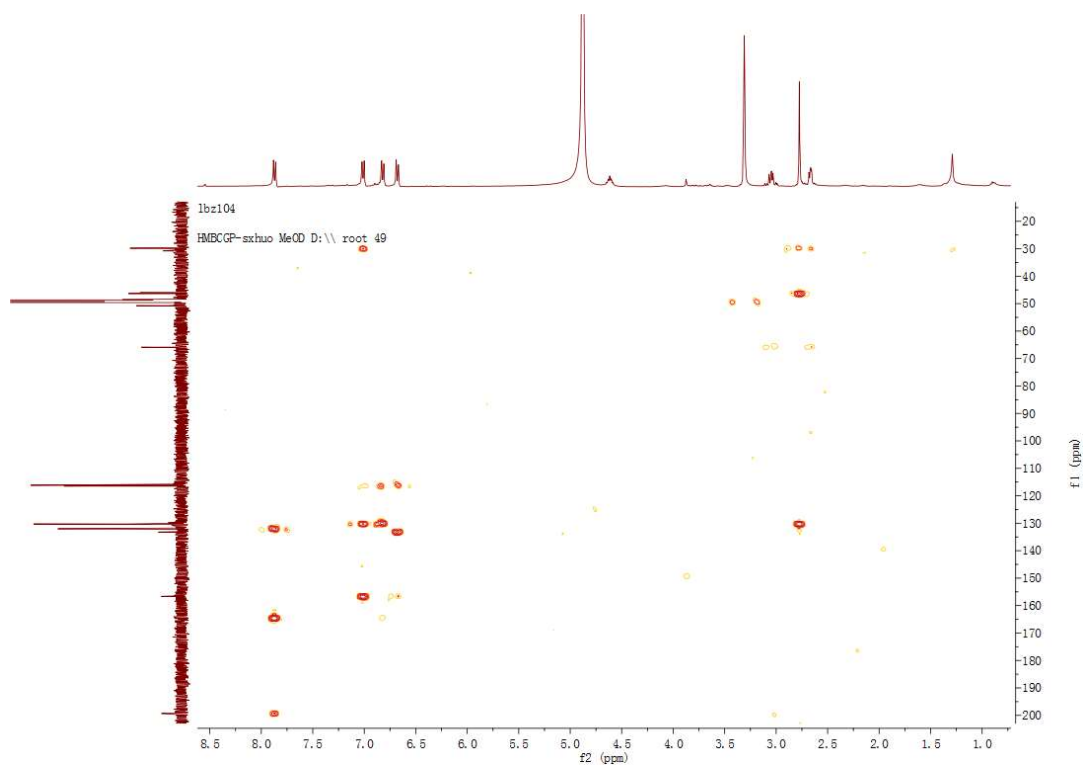


Figure S14. HMBC of compound **2** in CD₃OD

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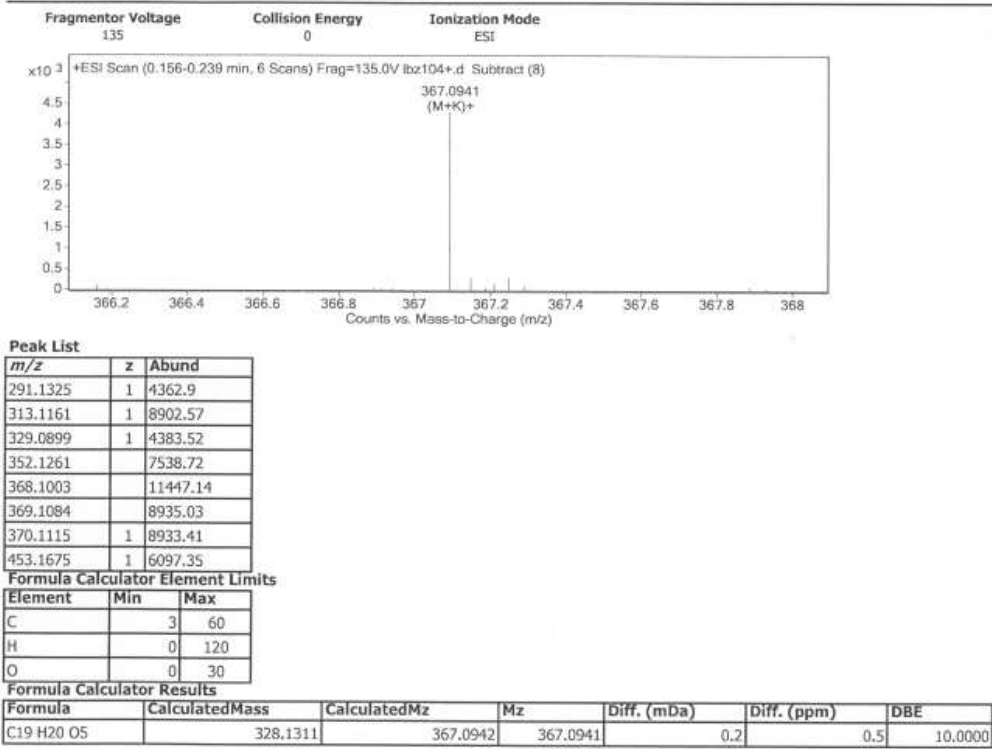


Figure S15. HR-ESIMS of compound 2

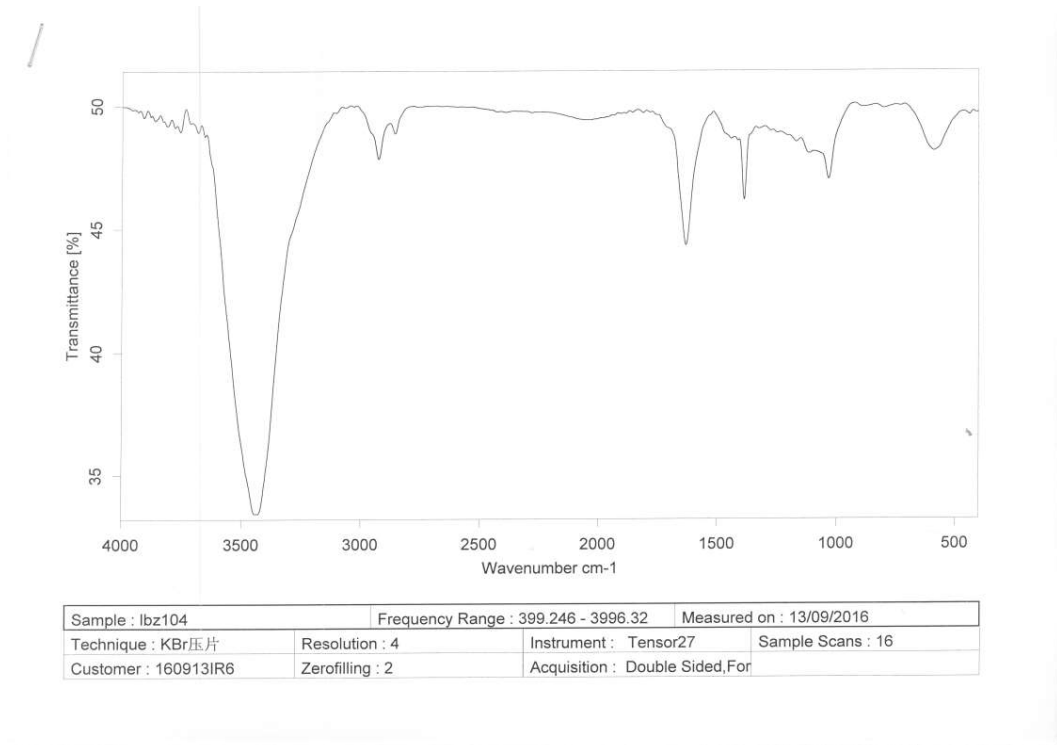


Figure S16. IR of compound 2

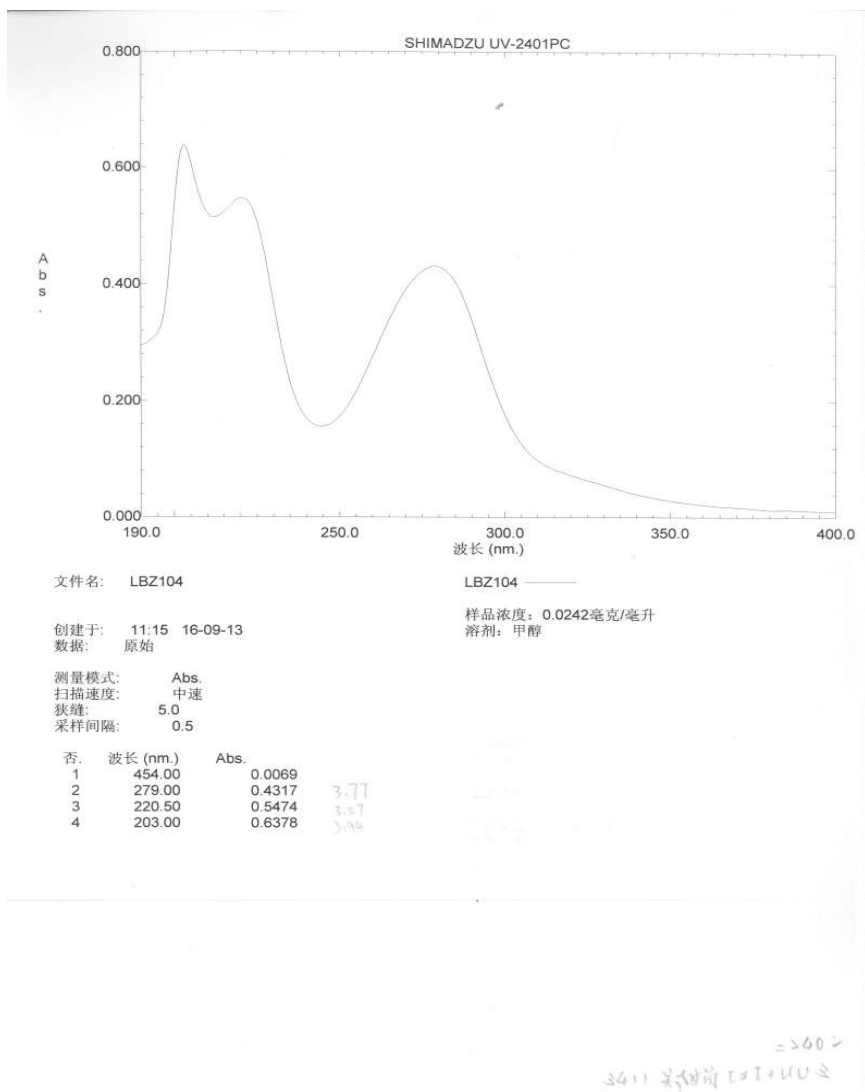


Figure S17. UV of compound 2

Optical rotation measurement

Model: P-1020 (A060460638)

No.	Sample	Mode	Data	Monitor Blank	Temp. Cell Temp Point	Date Comment Sample Name	Light Filter Operator	Cycle Time Integ Time
No.1	68 (1/3)	Sp.Rot	-14.5450	-0.0016 0.0000	25.5 10.00	Fri Sep 09 21:30:28 2016 0.00110g/mL MeOH Cell LBZ104	Na 589nm	2 sec 10 sec
No.2	68 (2/3)	Sp.Rot	-16.3640	-0.0018 0.0000	25.5 10.00	Fri Sep 09 21:30:42 2016 0.00110g/mL MeOH Cell LBZ104	Na 589nm	2 sec 10 sec
No.3	68 (3/3)	Sp.Rot	-12.7270	-0.0014 0.0000	25.5 10.00	Fri Sep 09 21:30:55 2016 0.00110g/mL MeOH Cell LBZ104	Na 589nm	2 sec 10 sec

-14.7477

Figure S18. Optical Rotation of compound 2