SUPPLEMENTARY MATERIAL

Two new triterpenoids with antimicrobial activity from the leaves and twigs of *Orophea yunnanensis*

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Abstract: Two new triterpenoids, 3-(4',5'-dihydroxybenzoyl)lupeol (**1**) and 3-*O*-(6'-desmethysyringyl)-13α-methyl-27-norolean-14-en-3*β*-ol (**2**), were isolated from the leaves and twigs of *Orophea yunnanensis*. Their structures were identified by extensive spectroscopic experiments (NMR and MS) and comparison with literature data. Compounds **1** and **2** exhibited the moderate inhibitory activity against *S. sclerotiorum*, *C. fimbriata* and *V. dahliae* Kleb with MIC values from 50 to 25 μg/mL, and also displayed the weak activity selectively against tested bacteria strains with MIC values from 100 to 50 μg/mL.

Keywords: *Orophea yunnanensis*; triterpenoids; antifungal activity; antibacterial activity

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Table S2. Antifungal activity of compounds **1-2** (MIC, μg/mL) 12

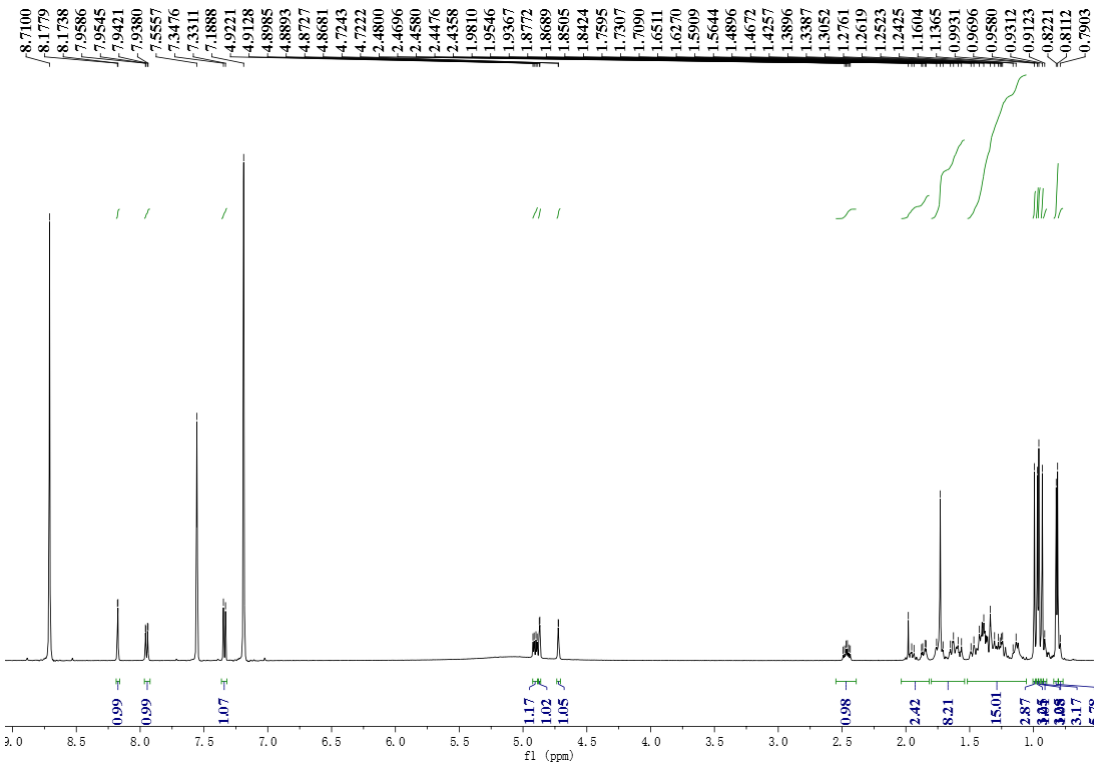


Figure S1. ^{1}H-NMR spectrum of **1**(500 MHz, C_5D_5N)

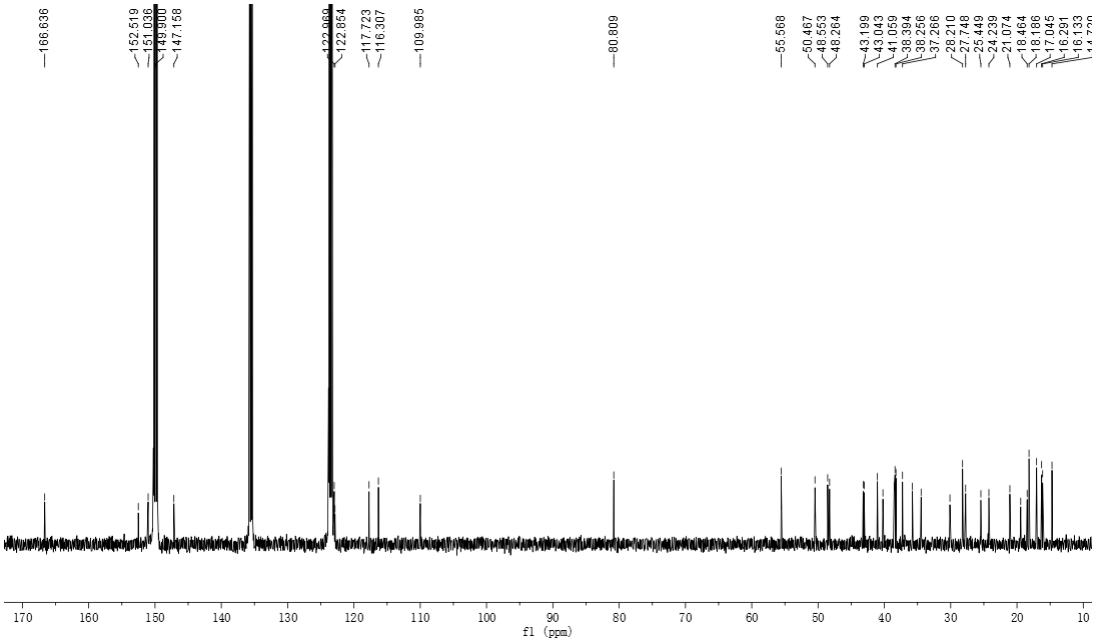


Figure S2. ^{13}C-NMR spectrum of **1** (125 MHz, C_5D_5N)

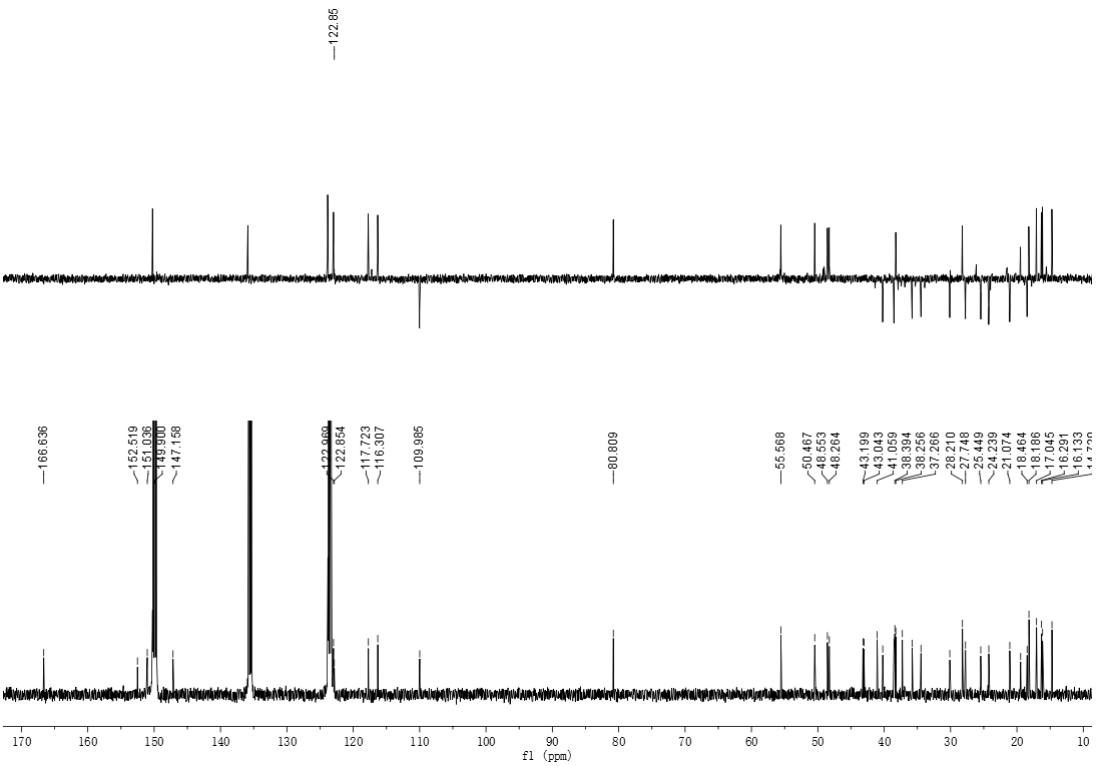


Figure S3. DEPT-135°-NMR spectrum of **1** (125 MHz, C_5D_5N)

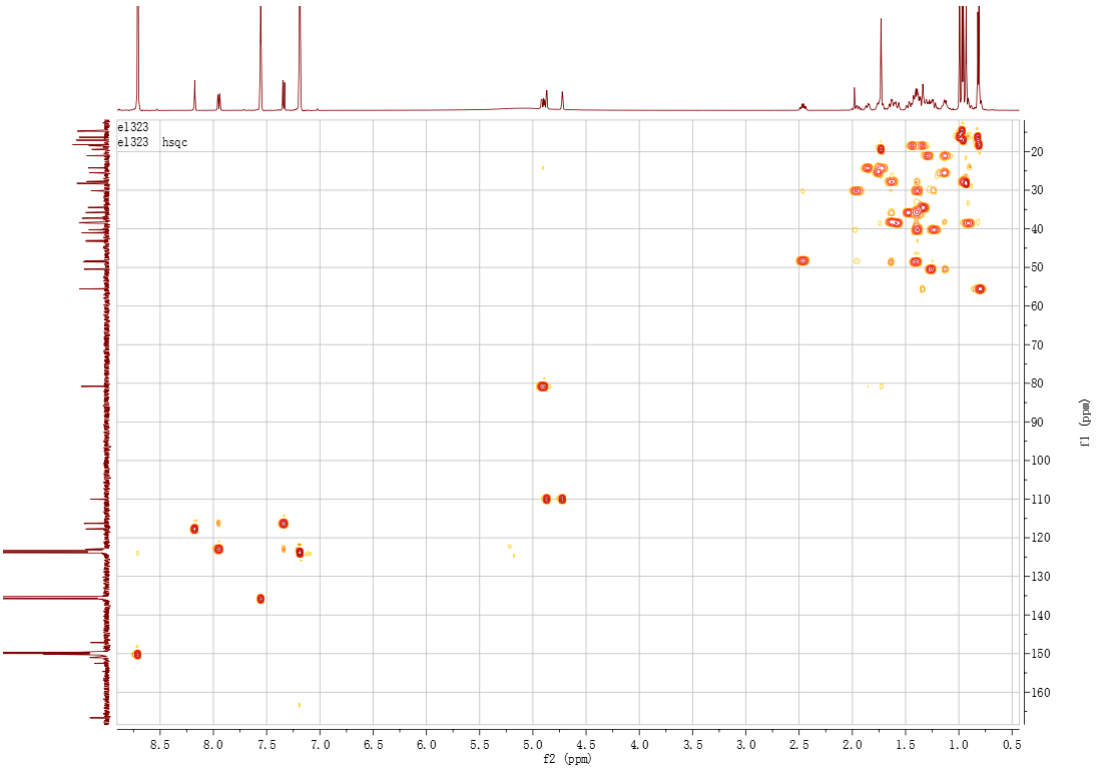


Figure S4. HSQC spectrum of **1** (C_5D_5N)

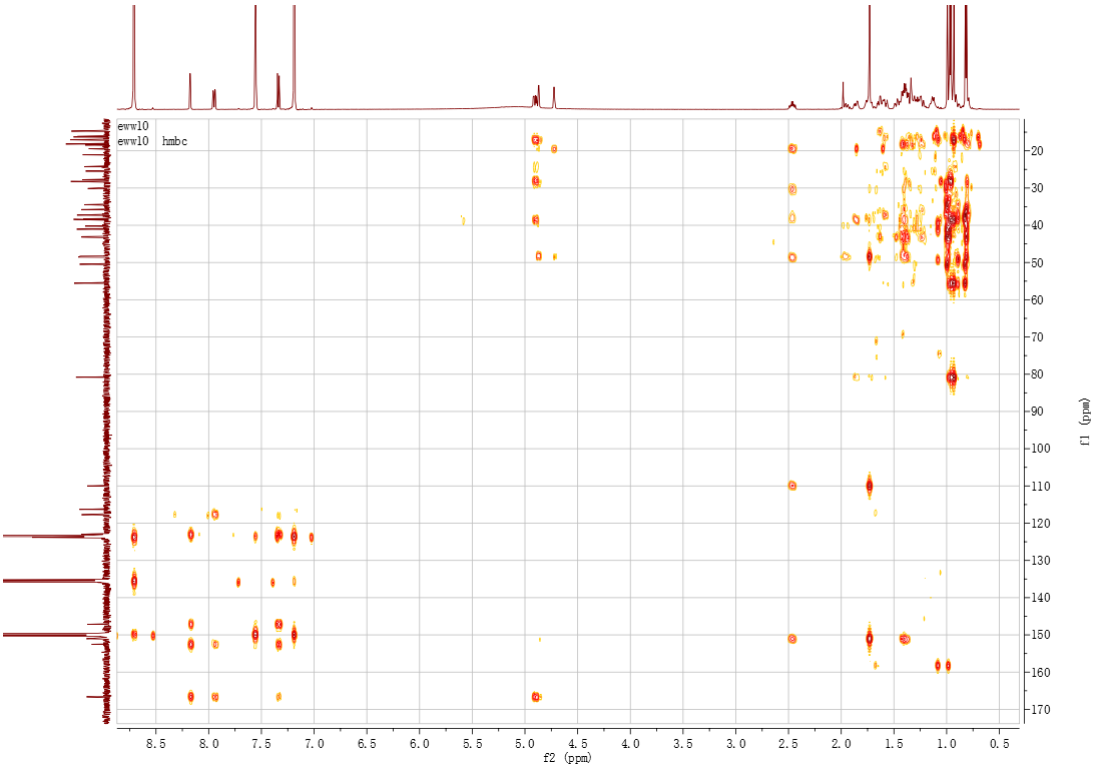


Figure S5. HMBC spectrum of **1** (C_5D_5N)

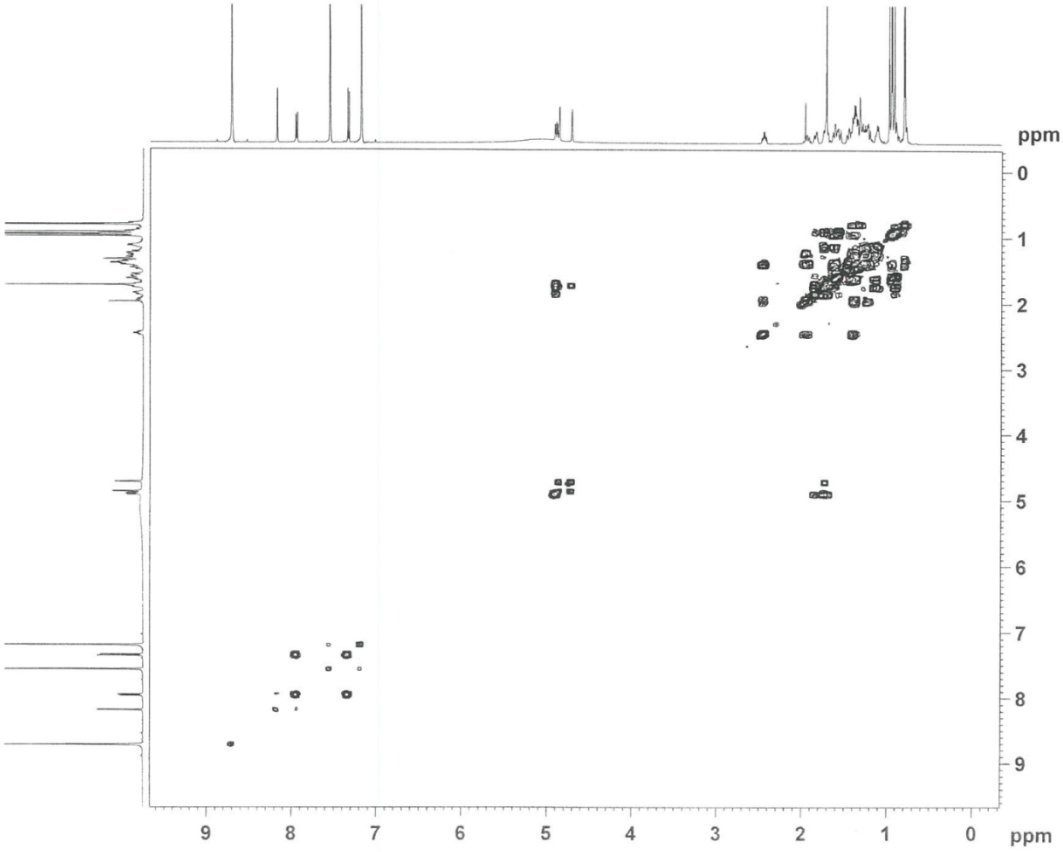
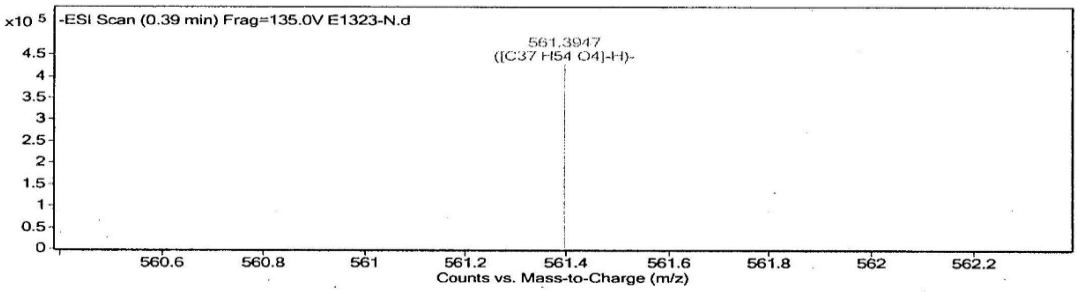


Figure S6. $^1H,^1H$-COSY spectrum of **1** (C_5D_5N)



Peak List

m/z	z	Abund	Formula	Ion
561.3947	1	428241.28	C37 H54 O4	(M-H)-

Figure S7. Negative HRESIMS spectrum of **1**

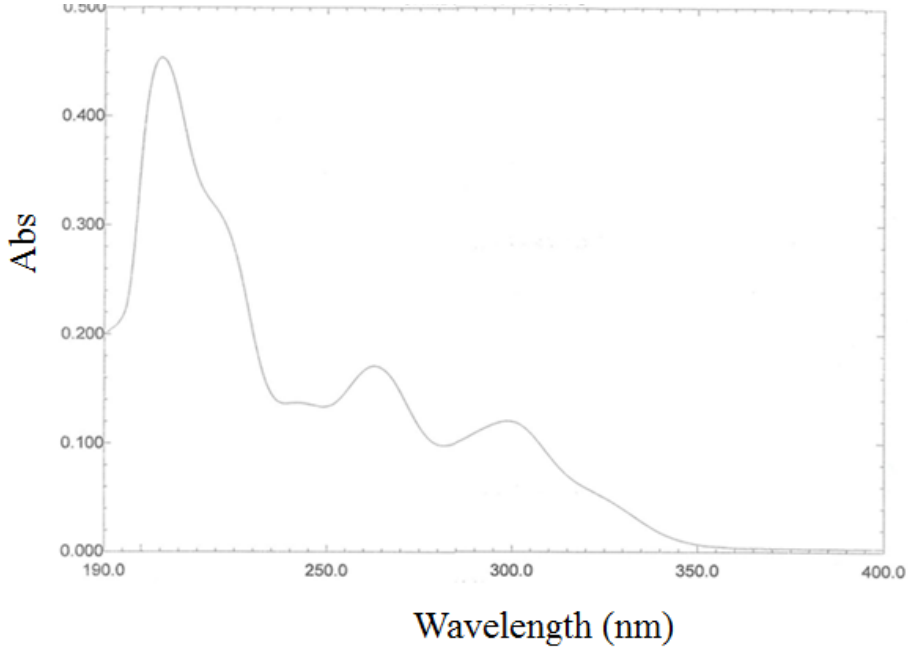


Figure S8. UV spectrum of **1**

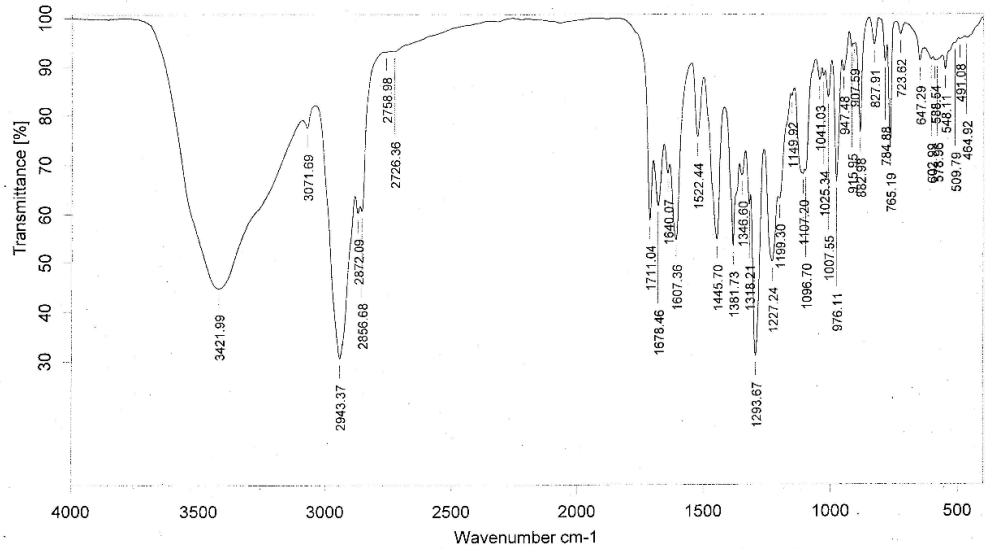


Figure S9. IR spectrum of **1**

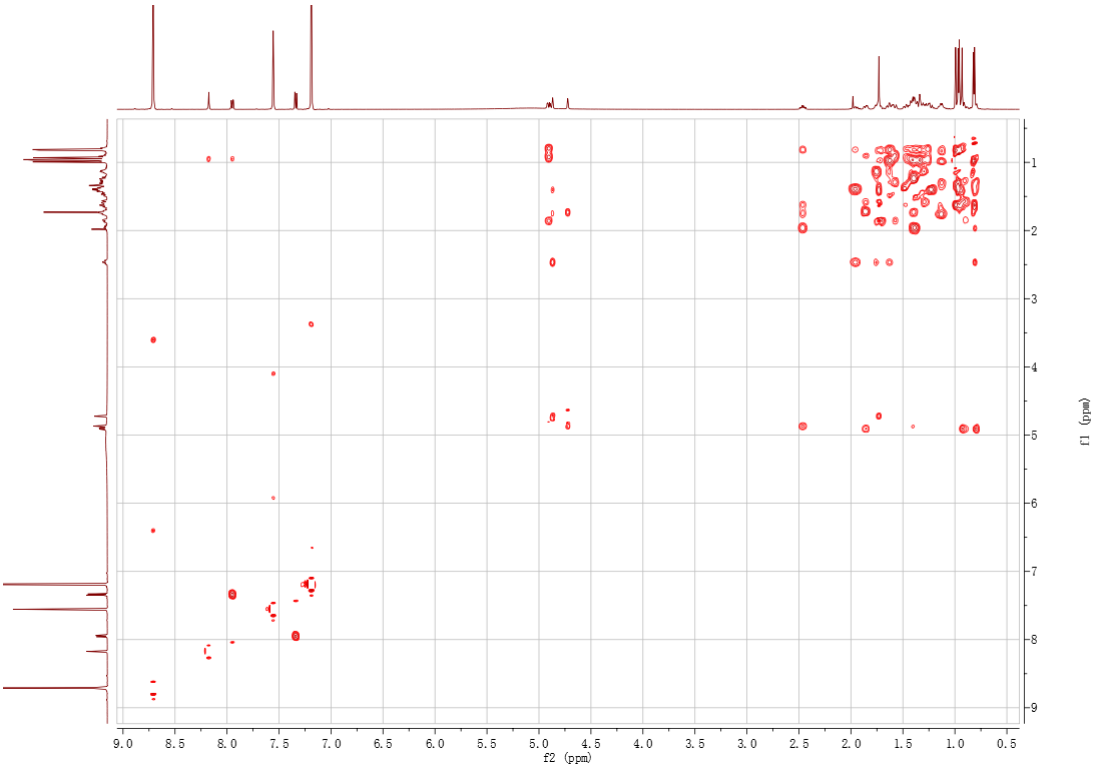


Figure S10. ROSEY spectrum of **1**

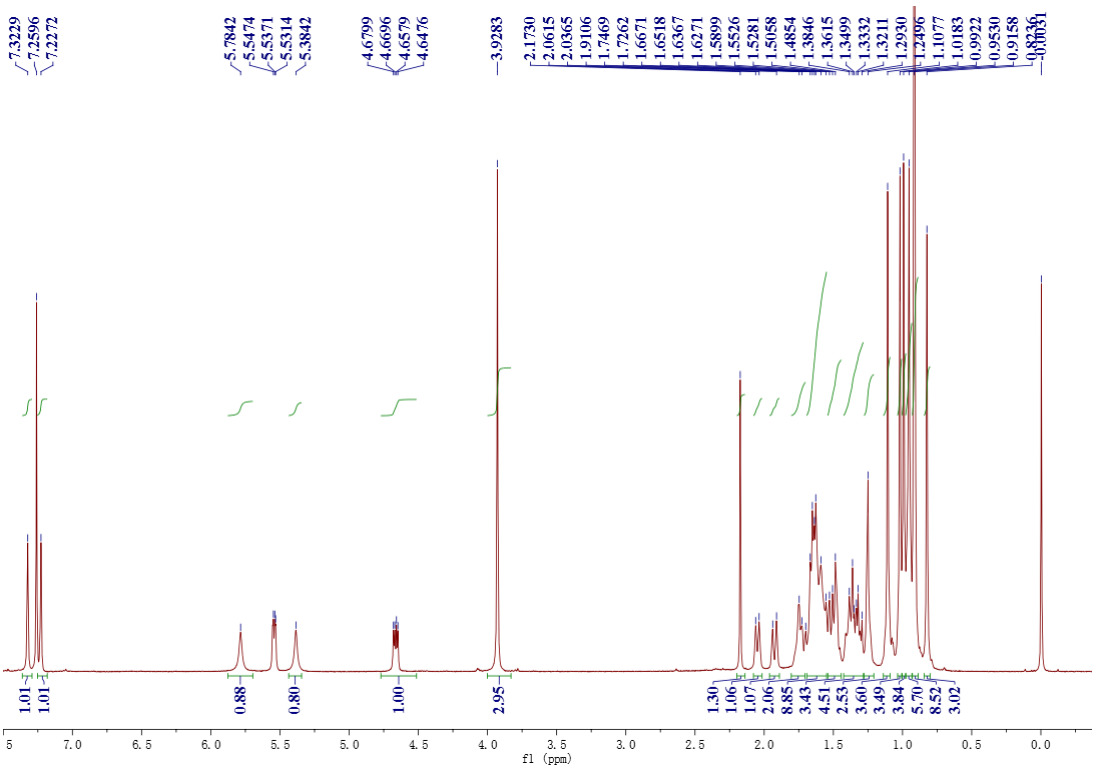


Figure S11. ^{1}H-NMR spectrum of **2** (500 MHz, $CDCl_3$)

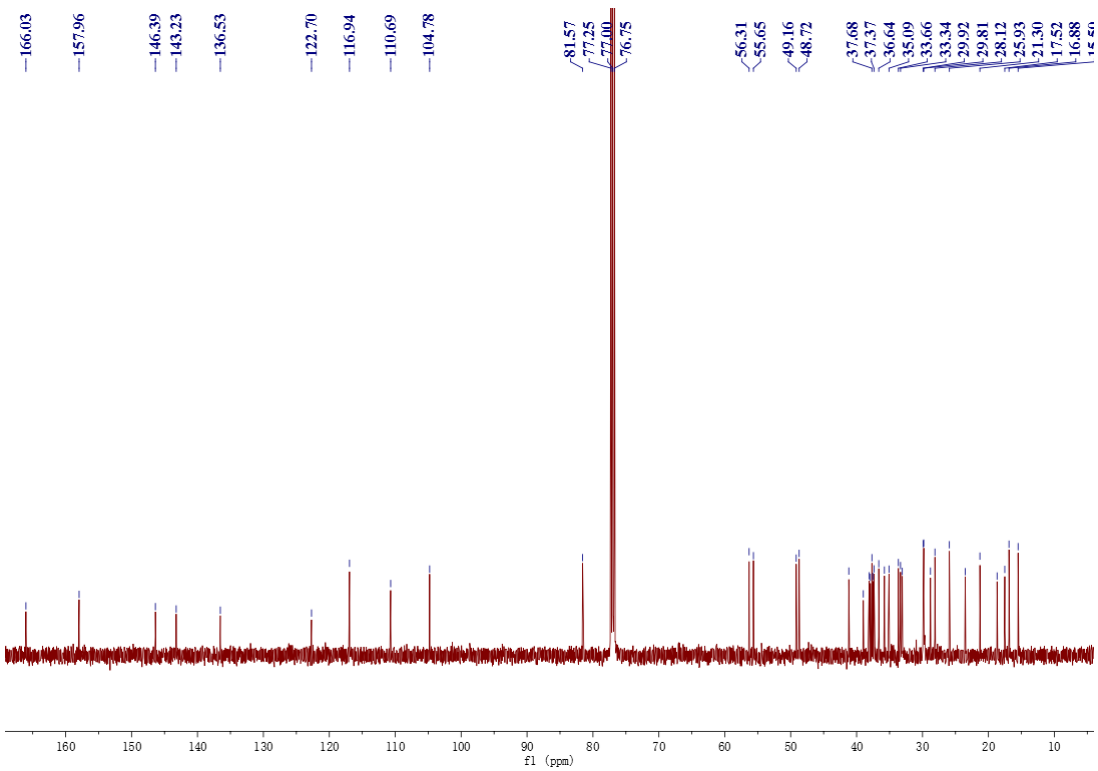


Figure S12. ^{13}C-NMR spectrum of **2** (125 MHz, $CDCl_3$)

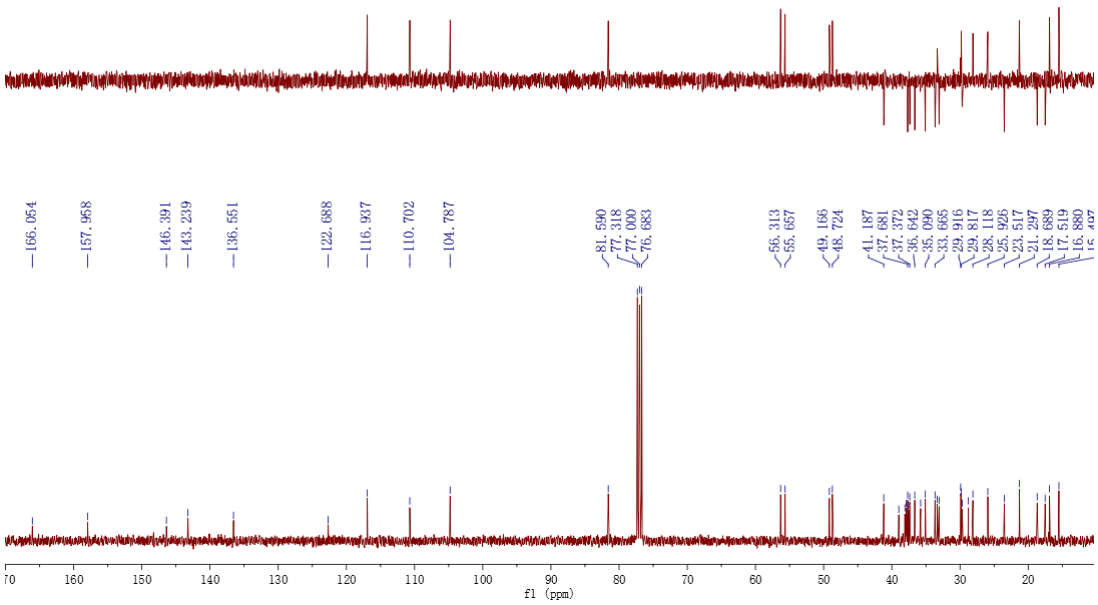


Figure S13. DEPT-135°-NMR spectrum of **2** (125 MHz, $CDCl_3$)

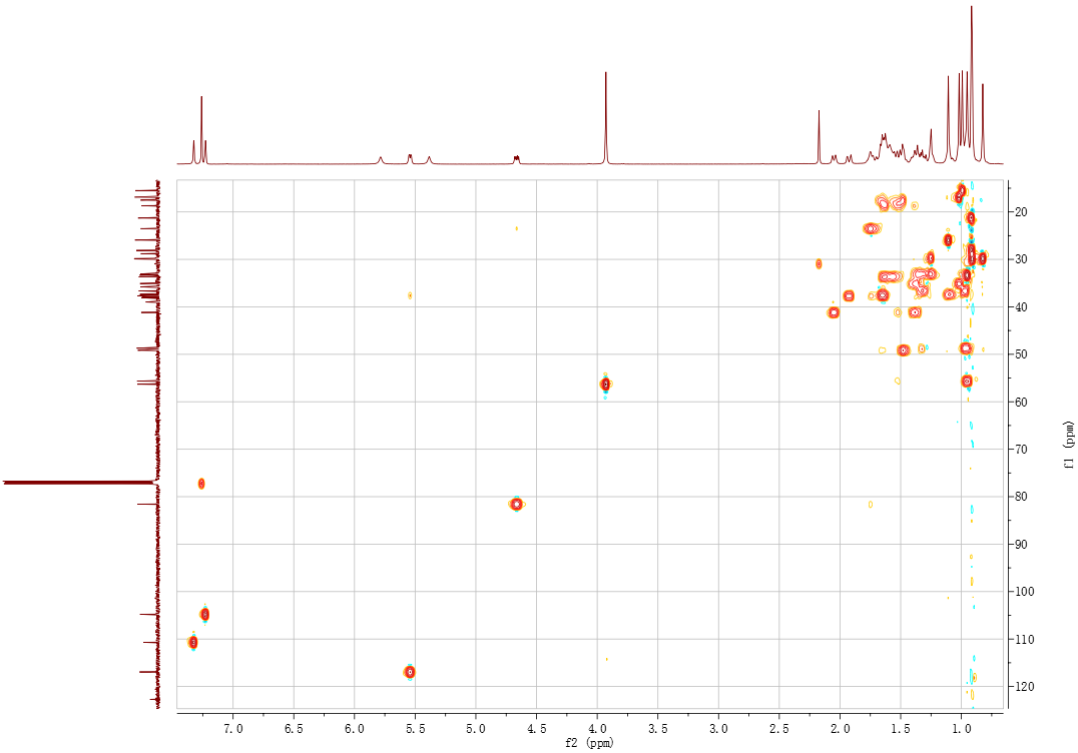


Figure S14. HSQC spectrum of **2** ($CDCl_3$)

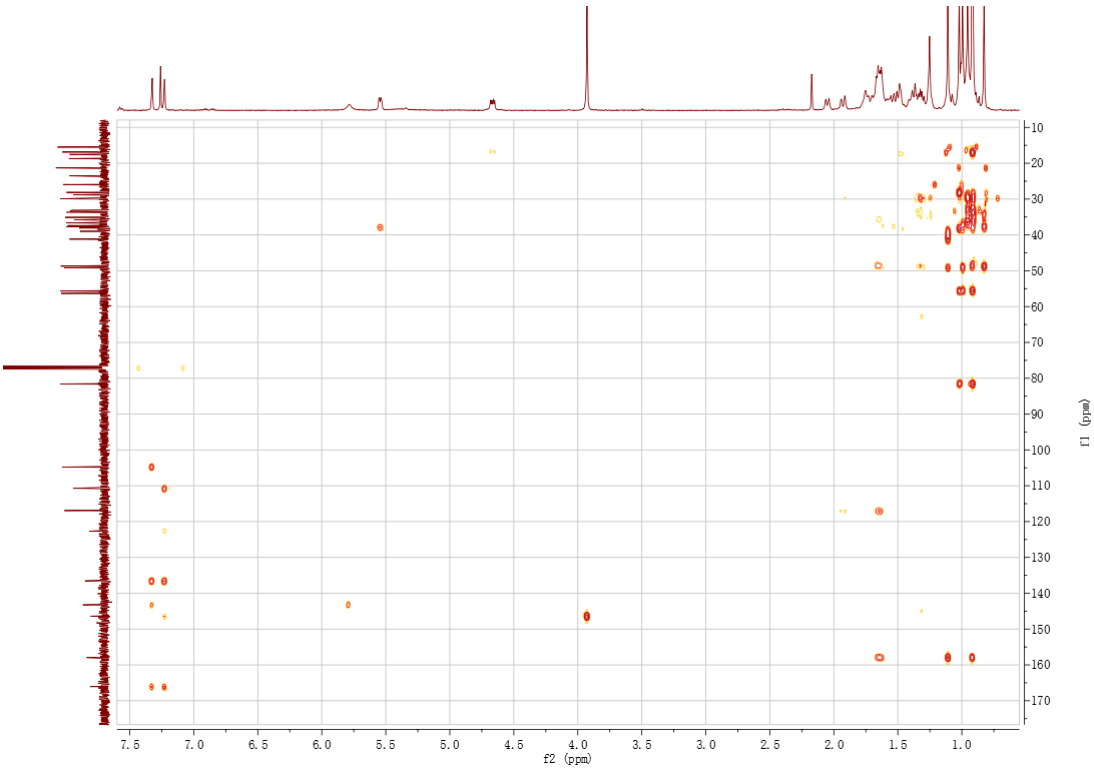


Figure S15. HMBC spectrum of **2** ($CDCl_3$)

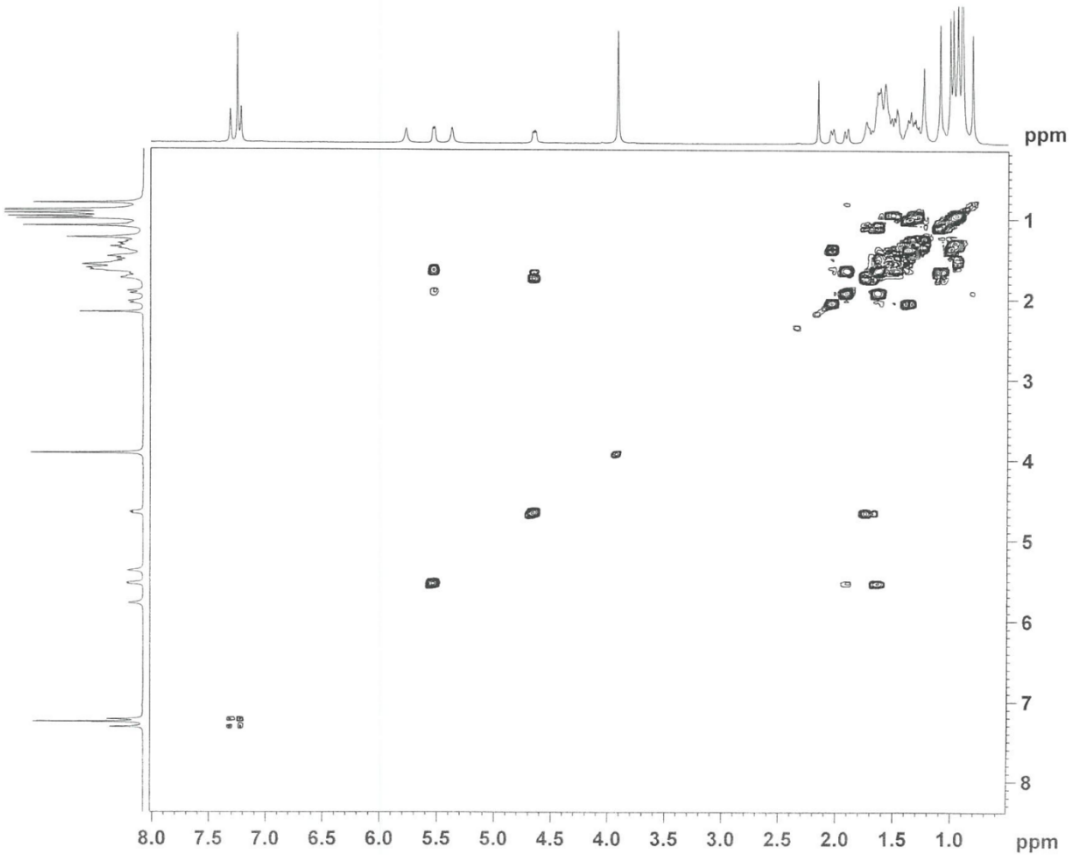


Figure S16. ^{1}H,^{1}H-COSY spectrum of **2** ($CDCl_3$)

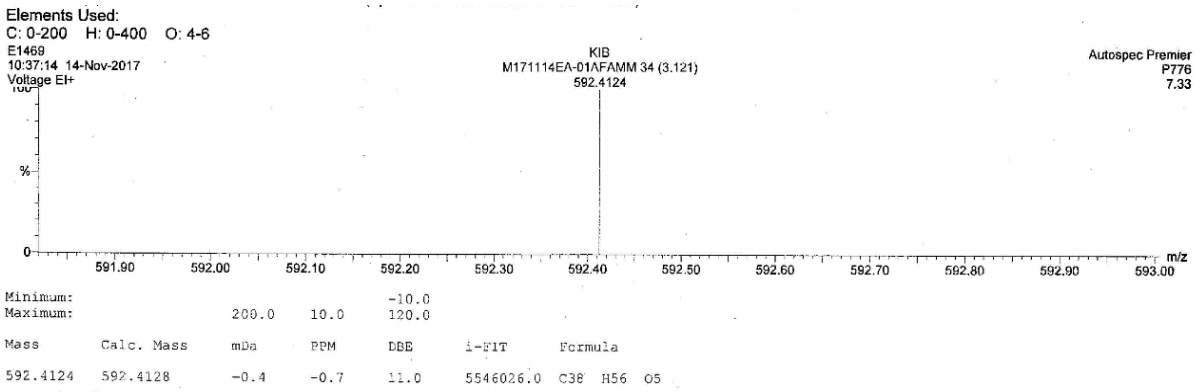


Figure S17. HR-EI-MS spectrum of **2**

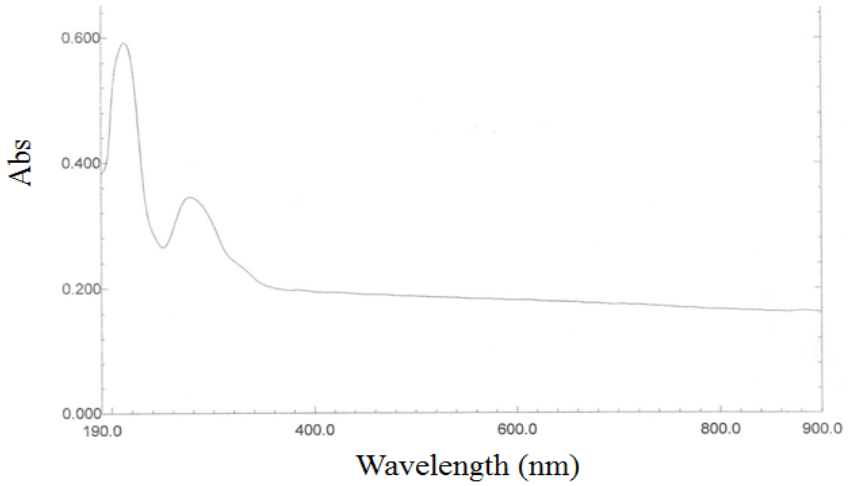


Figure S18. UV spectrum of **2**

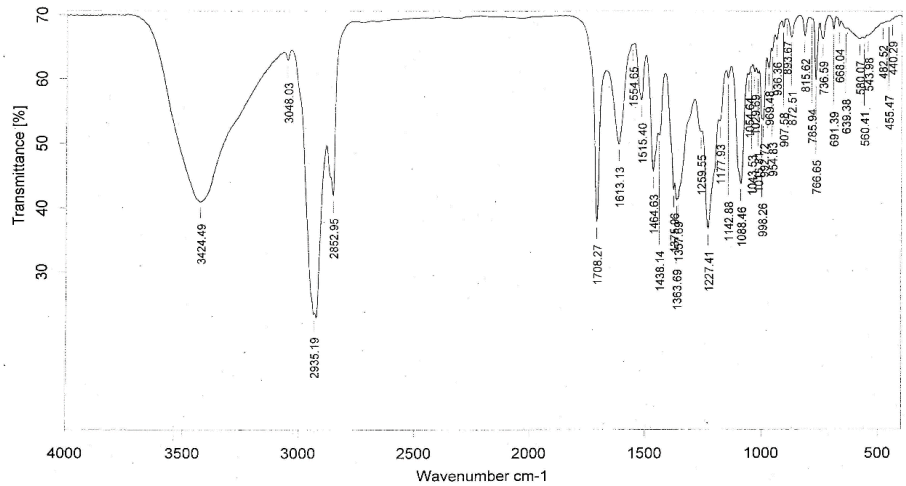


Figure S19. IR spectrum of **2**

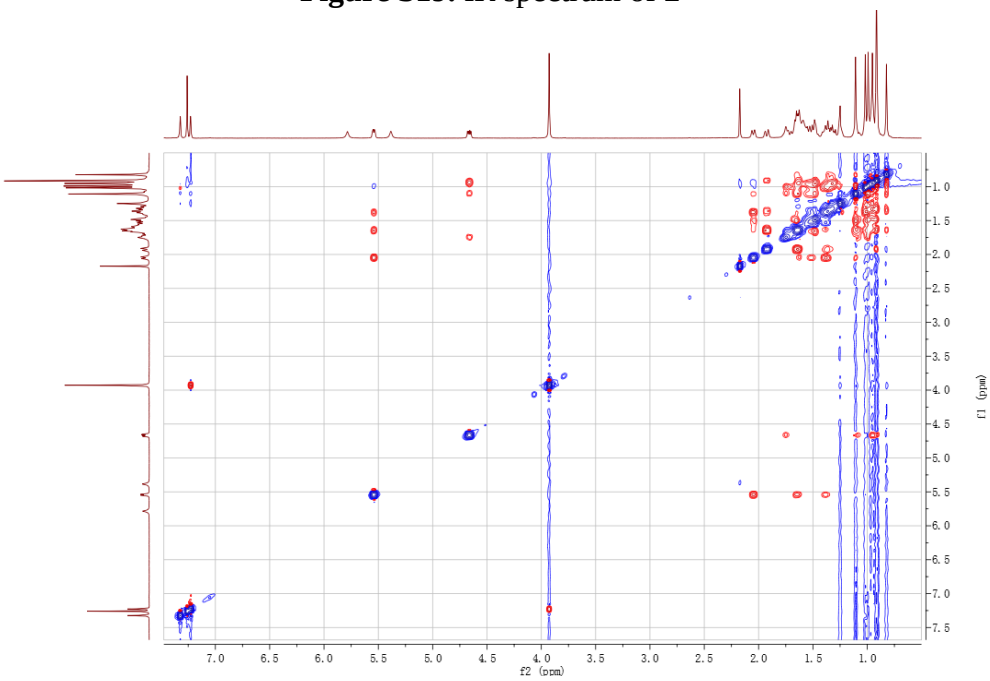


Figure S20. ROSEY spectrum of **2**

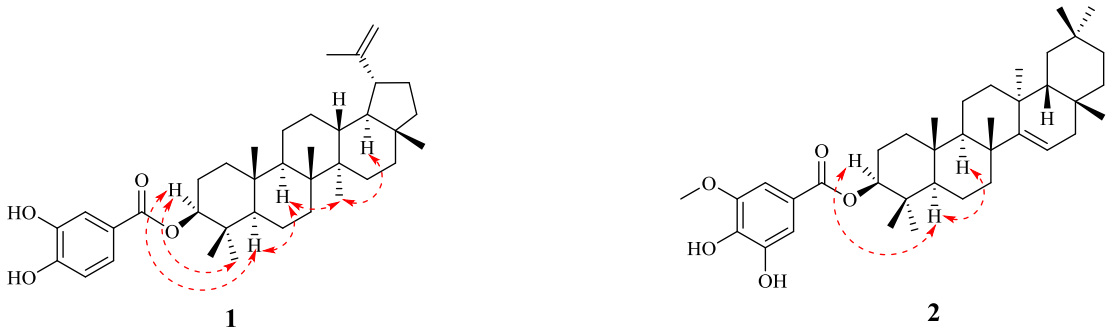


Figure S21. Key ROESY correlations of **1-2**

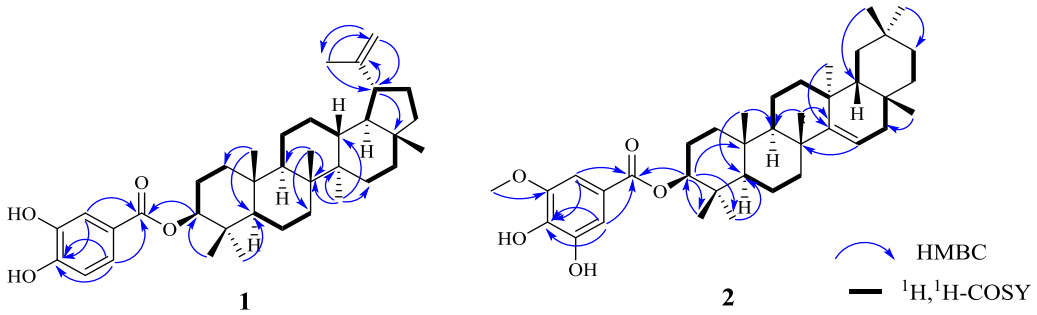


Figure S22. Key HMBC and ^{1}H,^{1}H-COSY correlations of **1-2**

Table S1. Antibacterial activity of compounds **1-2** (MIC, μg/mL)

	Compounds		
	1	**2**	Ciprofloxacin
Micrococcus lysodeikticus	>100	50	0.78
Bacillus subtilis	>100	100	0.78
Bacillus cereus	>100	50	0.78
Micrococcus luteus	50	100	0.78
Staphyloccocus aureus	100	50	3.13
Bacillus megaterium	50	50	0.78
Bacterium paratyphosum B	>100	100	0.78
Proteusbacillm vulgaris	>100	100	0.78
Salmonella typhi	>100	100	0.78
Psmdomonas aeruginosa	50	50	0.78
Escherichia coli	>100	100	0.78
Enterobacter aerogenes.	>100	100	0.78

Table S2. Antifungal activity of compounds **1-2** (MIC, μg/mL)

	Compounds		
	1	**2**	Ketoconazole
Sclerotinia sclerotiorum	25	25	6.25

Rhizoctorzia solani	100	100	12.5
Ceratocystis fimbriata	25	25	0.78
Verticillium dahliae Kleb	50	50	0.56
Fusarium oxysporum schlecht	100	100	12.5