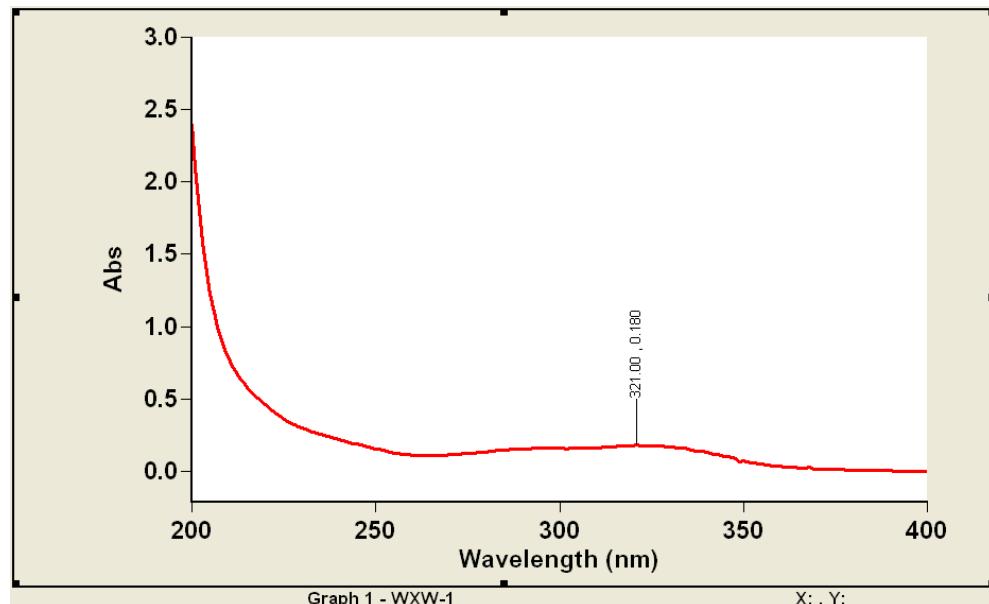


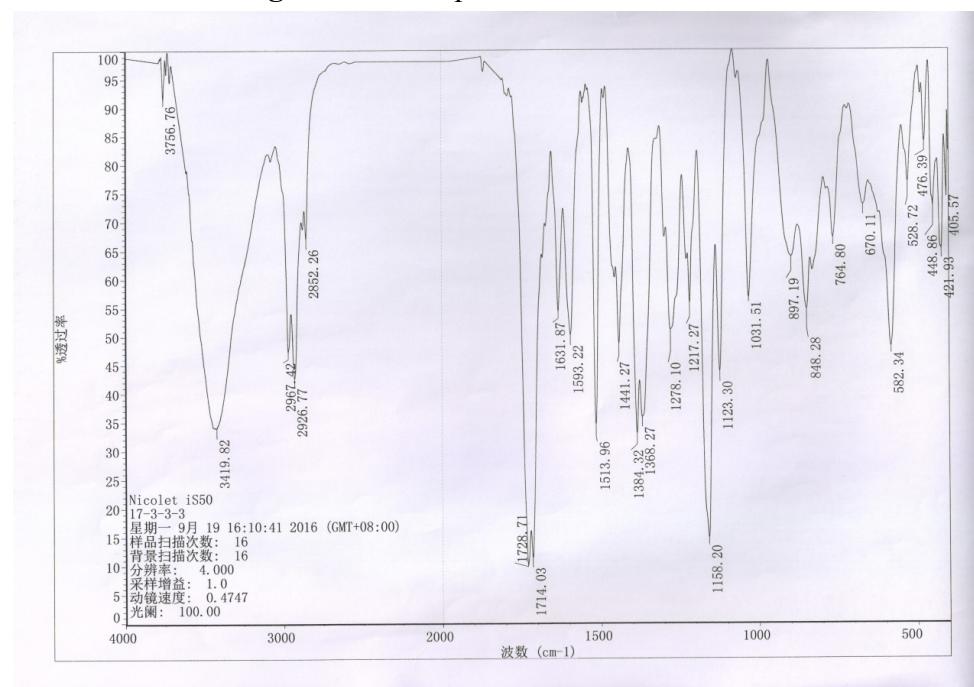
## Supplementary Material:

# Anti-Inflammatory Phenolic Acid Esters from the Roots and Rhizomes of *Notopterygium incisum* and Their Permeability in the Human Caco-2 Monolayer Cell Model

Xiu-Wen Wu, Wei Wei, Xiu-Wei Yang\*, You-Bo Zhang, Wei Xu, Yan-Fang Yang, Guo-Yue Zhong, Hong-Ning Liu, Shi-Lin Yang



**Figure S1.** UV spectrum of **1** in MeOH.



**Figure S2.** IR spectrum of **1**.

## Elemental Composition Report

## Single Mass Analysis

Tolerance = 5.0 PPM / DBE: min = -1.5, max = 50.0

Element prediction: Off

Number of isotope peaks used for i-FIT = 3

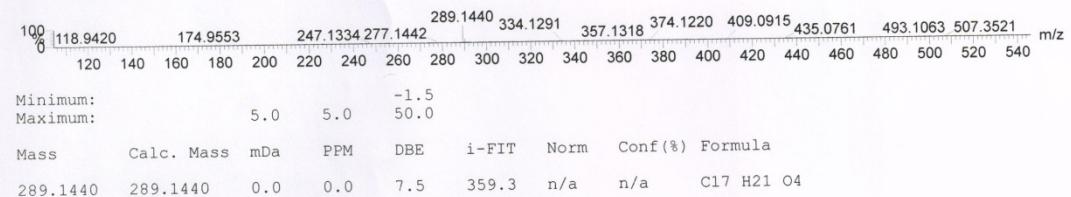
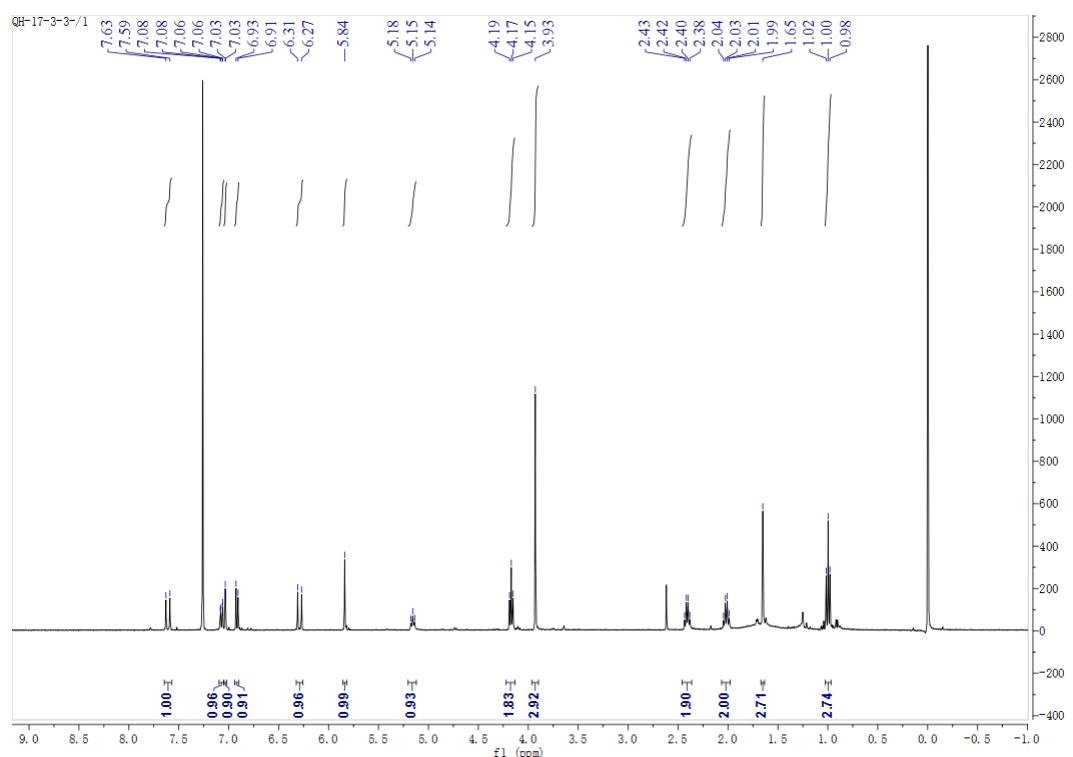
Monoisotopic Mass, Even Electron Ions

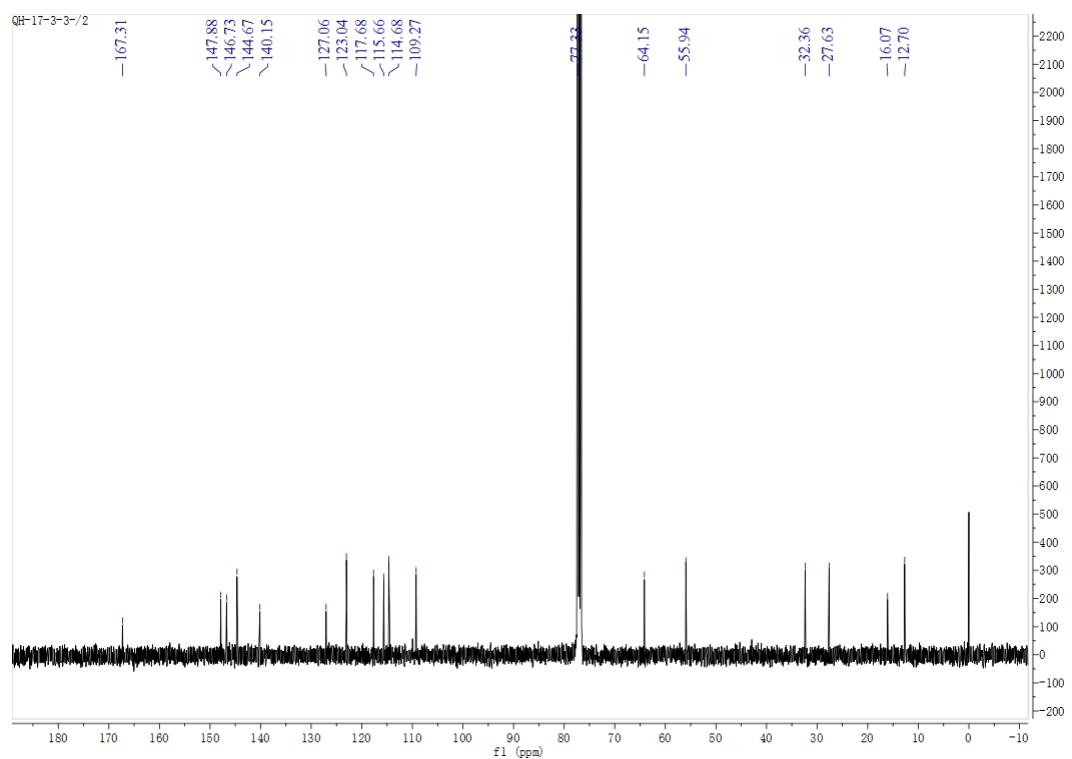
92 formula(e) evaluated with 1 results within limits (up to 50 closest results for each mass)

Elements Used:

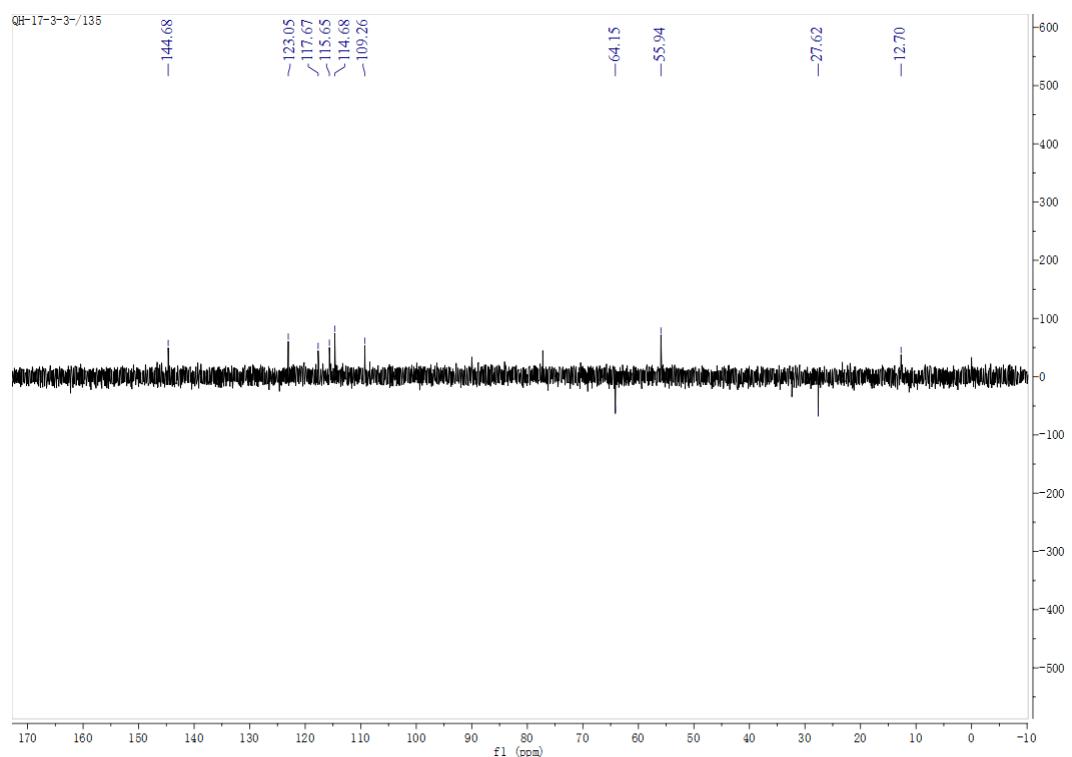
C: 0-100 H: 0-200 O: 0-50 Na: 0-1

24-Nov-2015

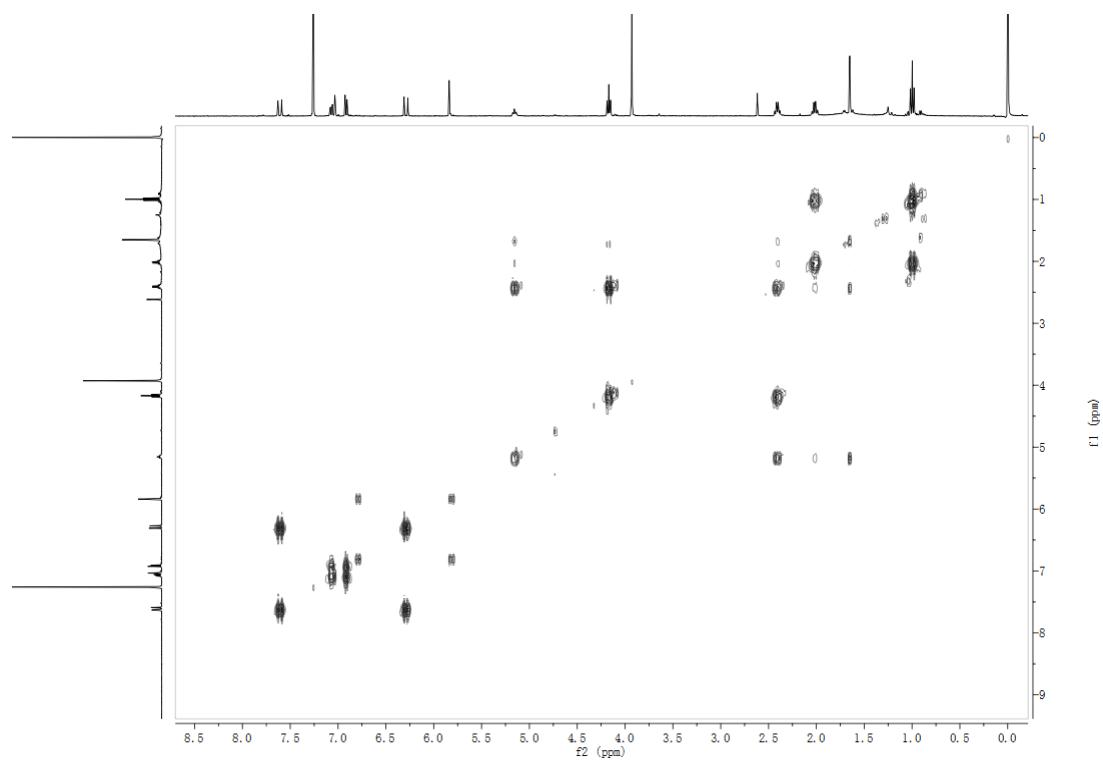
Waters  
TOF MS ES-  
1.45e+006Xevo G2 Q-TOF/YCA166#  
17-3-3 NEG 13 (0.237) Crn (11:15-(2:6+27:53))Figure S3. HR-ESI-MS spectrum of **1**.Figure S4.  $^1\text{H}$  NMR spectrum of **1** in  $\text{CDCl}_3$ .



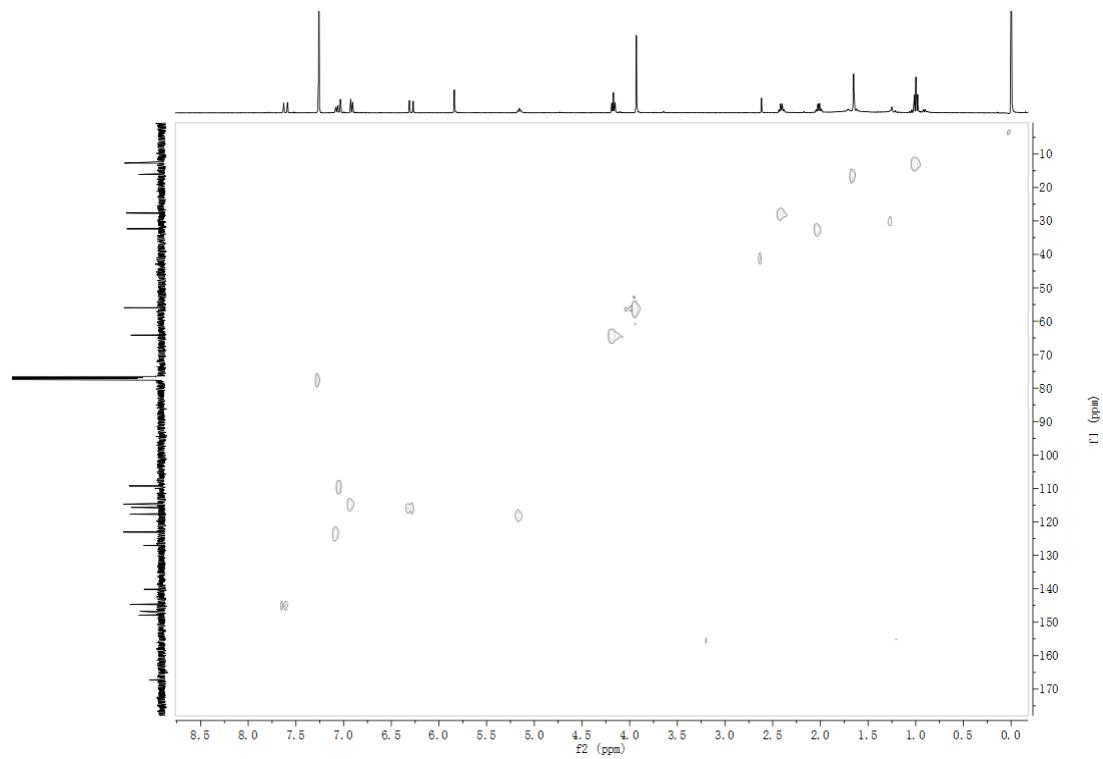
**Figure S5.**  $^{13}\text{C}$  NMR spectrum of **1** in  $\text{CDCl}_3$ .



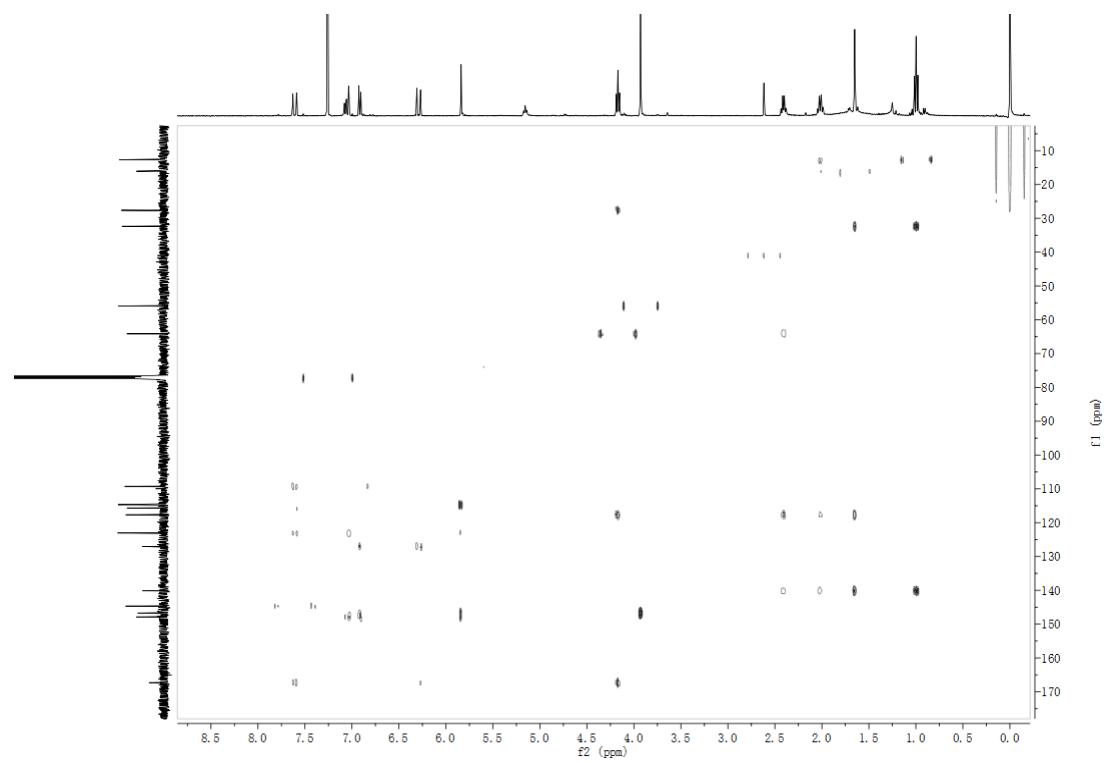
**Figure S6.** DEPT 135 spectrum of **1**  $\text{CDCl}_3$ .



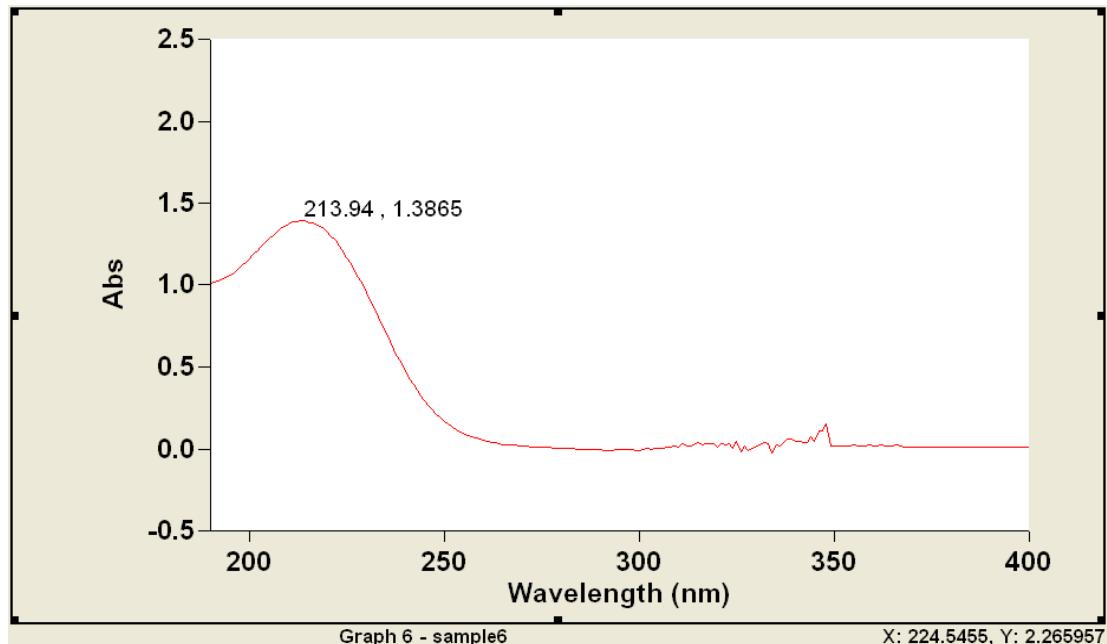
**Figure S7.**  $^1\text{H}$ - $^1\text{H}$  COSY spectrum of **1**  $\text{CDCl}_3$ .



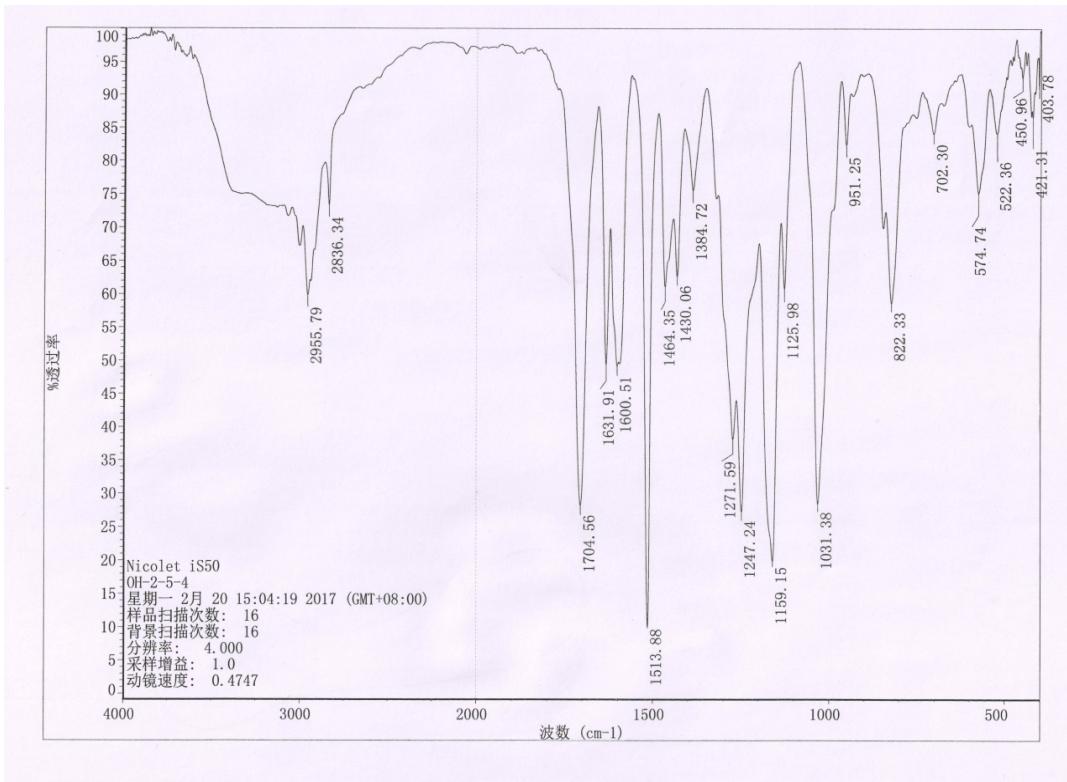
**Figure S8.** HSQC spectrum of **1**  $\text{CDCl}_3$ .



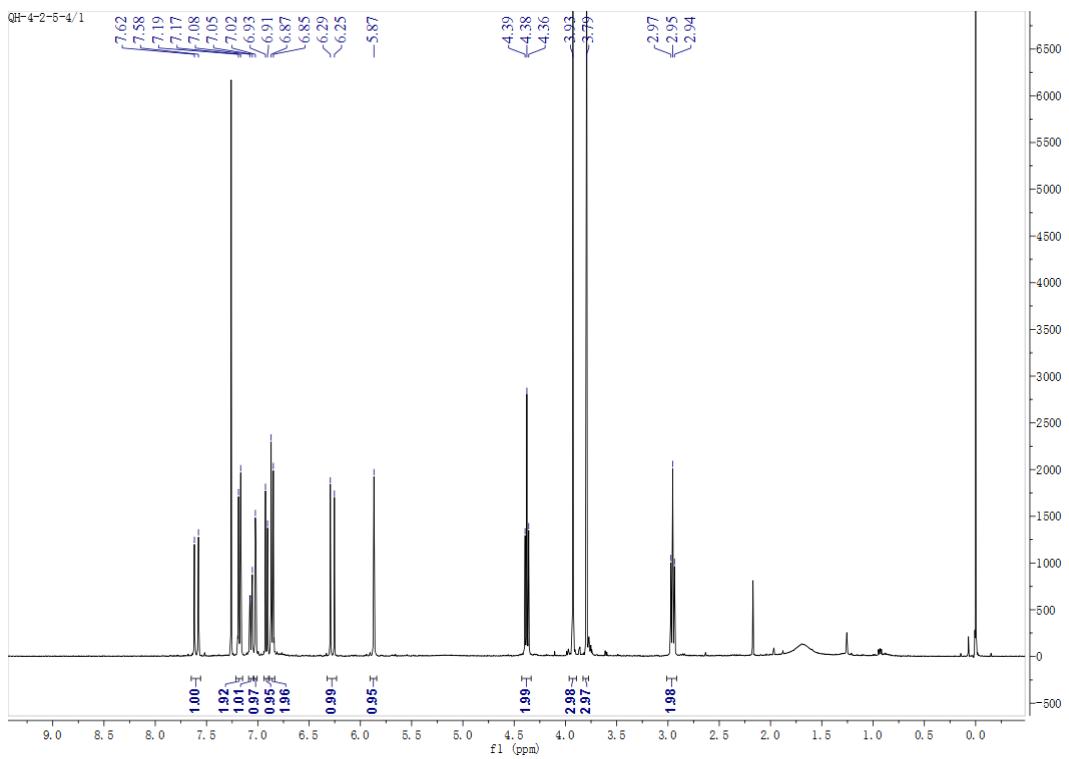
**Figure S9.** HMBC spectrum of **1**  $\text{CDCl}_3$ .



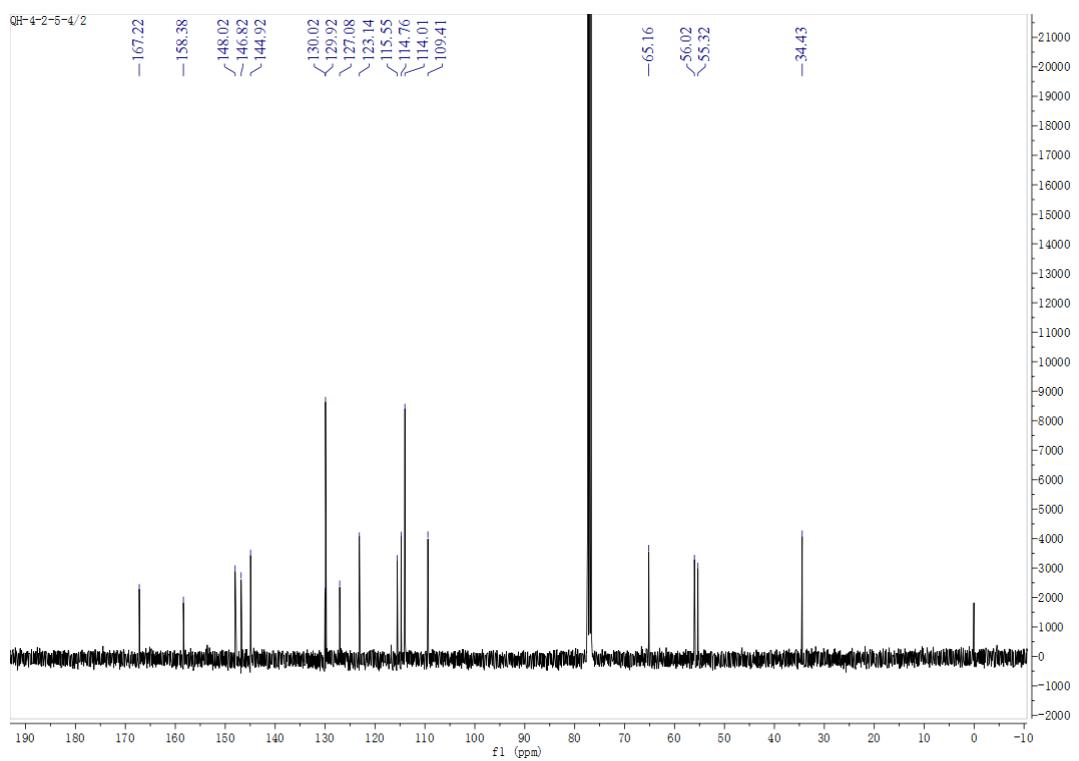
**Figure S10.** UV spectrum of **8** in  $\text{MeOH}$ .



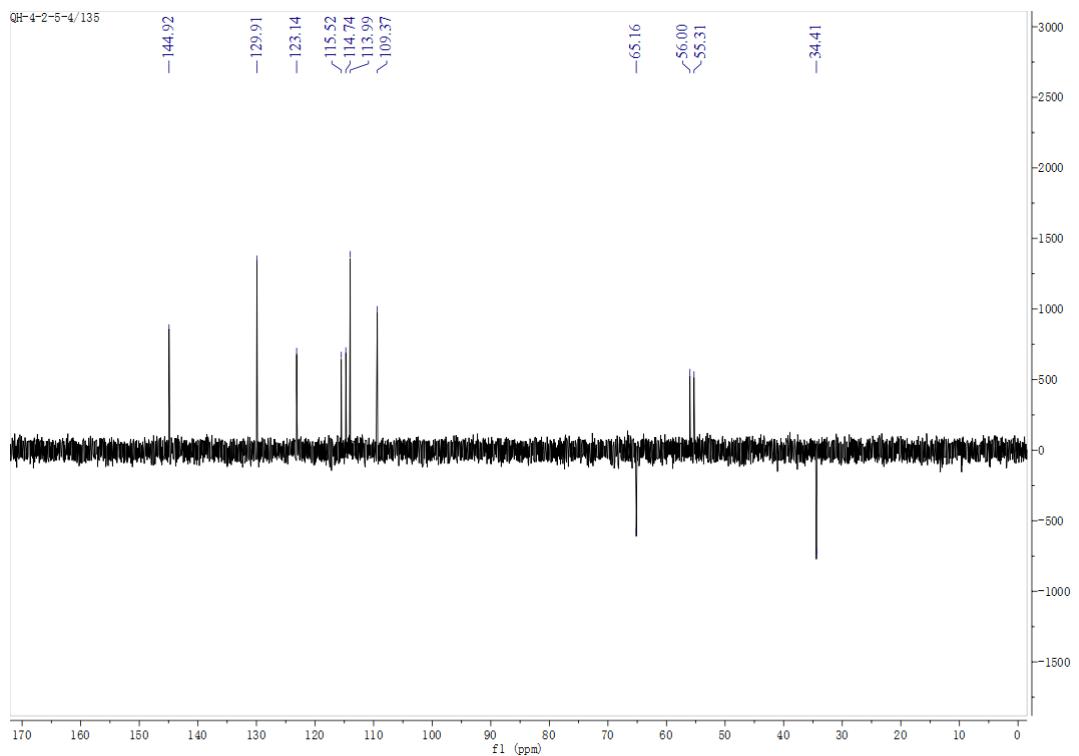
**Figure S11.** IR spectrum of **8**.



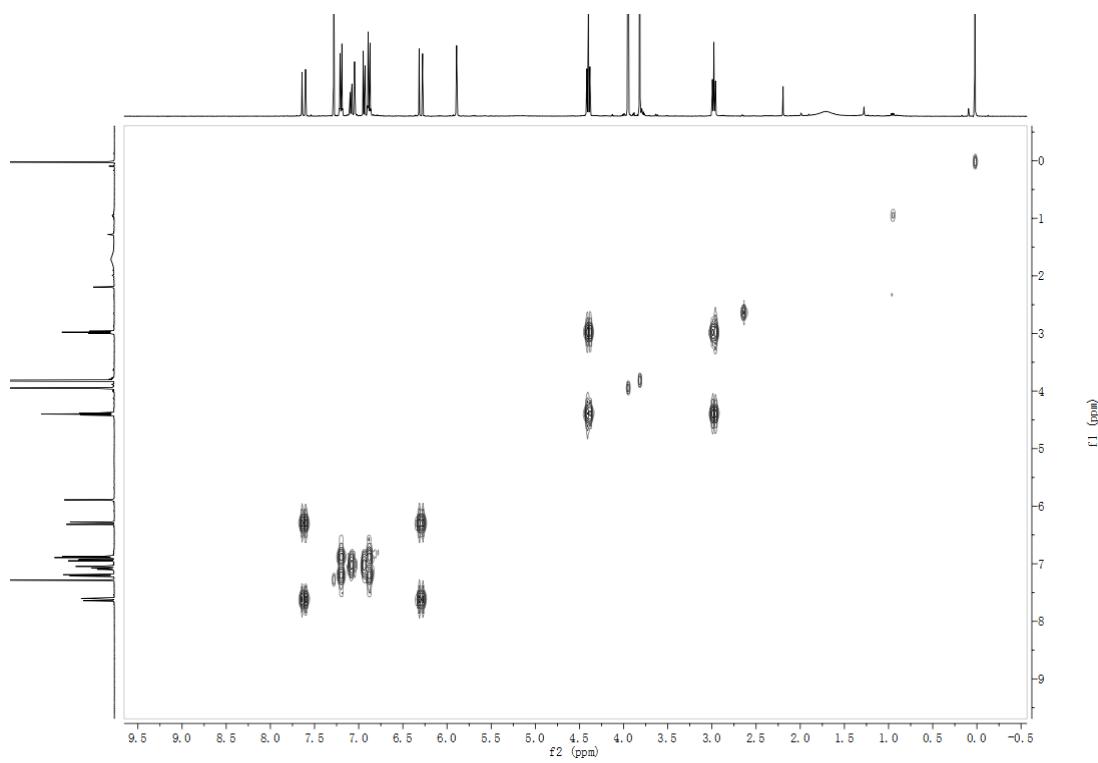
**Figure S12.**  $^1\text{H}$  NMR spectrum of **8** in  $\text{CDCl}_3$ .



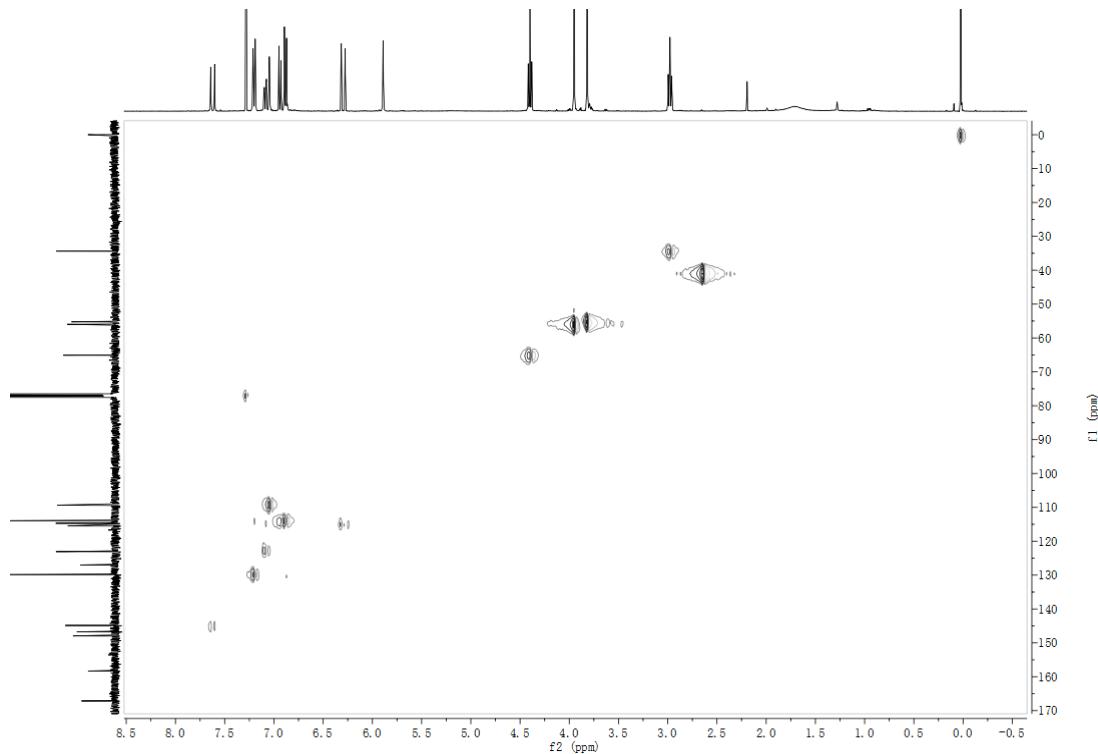
**Figure S13.**  $^{13}\text{C}$  NMR spectrum of **8** in  $\text{CDCl}_3$ .



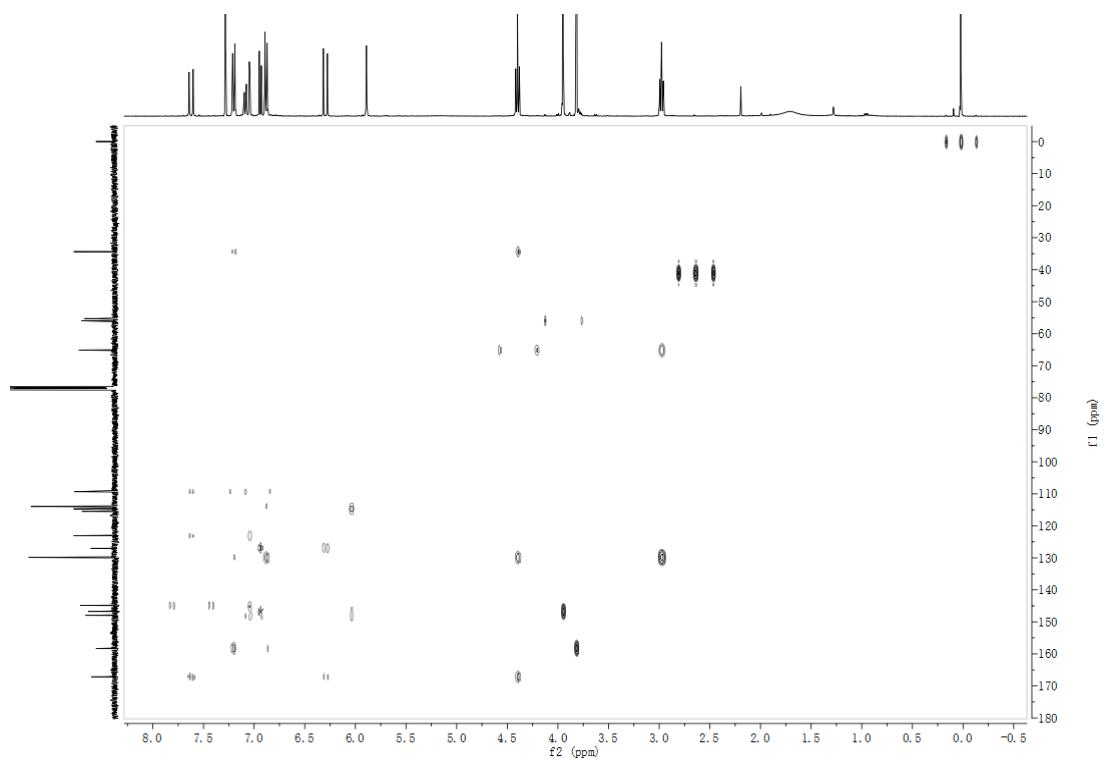
**Figure S14.** DEPT 135 spectrum of **8** in  $\text{CDCl}_3$ .



**Figure S15.**  $^1\text{H}$ - $^1\text{H}$  COSY spectrum of **8** in  $\text{CDCl}_3$ .



**Figure S16.** HSQC spectrum of **8** in  $\text{CDCl}_3$ .



**Figure S17.** HMBC spectrum of **8** in  $\text{CDCl}_3$ .

**Table S1.** Precision, accuracy, recovery, and stability of the phenolic acid esters.

No.	QC/ $\mu$ M	Precision RSD(%)		Accuracy (%)		Recovery (%)	Stability (%)
		Intra-day	Inter-day	Intra-day	Inter-day		
<b>1</b>	5	1.98	2.88	89.54	95.72	85.13 $\pm$ 2.45	93.56 $\pm$ 1.02
	25	0.63	1.54	82.13	96.86	86.66 $\pm$ 1.33	95.65 $\pm$ 0.56
	50	1.23	1.36	86.04	96.23	86.25 $\pm$ 1.17	92.25 $\pm$ 1.63
<b>2</b>	5	2.30	1.99	89.65	92.58	85.56 $\pm$ 1.70	98.84 $\pm$ 2.09
	25	1.26	2.33	96.98	101.59	80.50 $\pm$ 1.87	94.57 $\pm$ 1.85
	50	1.69	2.01	96.22	93.25	83.39 $\pm$ 1.68	97.25 $\pm$ 2.09
<b>4</b>	5	2.03	2.35	104.24	92.27	82.28 $\pm$ 1.93	92.28 $\pm$ 2.07
	25	2.20	2.14	105.16	104.15	90.41 $\pm$ 194	100.74 $\pm$ 2.15
	50	1.28	1.35	109.74	97.14	91.97 $\pm$ 1.24	95.85 $\pm$ 2.01
<b>5</b>	5	2.51	1.74	89.74	93.72	85.72 $\pm$ 1.49	96.29 $\pm$ 0.99
	25	1.08	2.58	82.58	86.69	96.68 $\pm$ 2.49	94.56 $\pm$ 0.96
	50	1.54	2.27	86.27	92.35	86.23 $\pm$ 1.96	95.85 $\pm$ 1.01
<b>6</b>	5	1.02	2.75	89.75	93.56	85.56 $\pm$ 2.35	95.08 $\pm$ 1.56
	25	1.32	2.35	96.35	98.50	90.50 $\pm$ 2.13	102.02 $\pm$ 1.96
	50	1.55	2.14	96.14	101.39	89.25 $\pm$ 1.91	102.05 $\pm$ 1.39
<b>8</b>	5	1.47	2.86	108.87	108.07	80.18 $\pm$ 2.29	93.28 $\pm$ 2.17
	25	2.01	2.51	95.80	90.41	90.14 $\pm$ 2.26	95.45 $\pm$ 1.12
	50	1.69	1.97	89.74	101.14	101.79 $\pm$ 2.00	102.58 $\pm$ 1.54
<b>9</b>	5	1.37	3.27	86.60	102.09	92.45 $\pm$ 3.02	92.26 $\pm$ 2.89
	25	0.98	2.91	88.43	103.08	93.50 $\pm$ 2.72	93.71 $\pm$ 1.88
	50	1.03	2.04	96.06	98.92	96.91 $\pm$ 1.98	101.99 $\pm$ 1.32