

## SUPPLEMENTARY MATERIAL

### Maleic anhydride and chromone derivatives from the endophytic fungus BCC 54265 (Botryosphaeriaceae)

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**Abstract:** A maleic anhydride derivative, botryoanhydride (**1**), and a chromone derivative, botryochromone (**2**), together with three known chromones, eugenitin (**3**), 6-hydroxymethyleugenin (**4**), and 6-methoxymethyleugenin (**5**), were isolated from cultures of the endophytic fungus BCC 54265 of the family Botryosphaeriaceae. The structures were elucidated on the basis of NMR spectroscopic and mass spectrometry data. Compound **2** showed weak cytotoxic activity to cancer cell-lines.

**Keywords:** Botryosphaeriaceae; maleidride; chromone; cytotoxicity

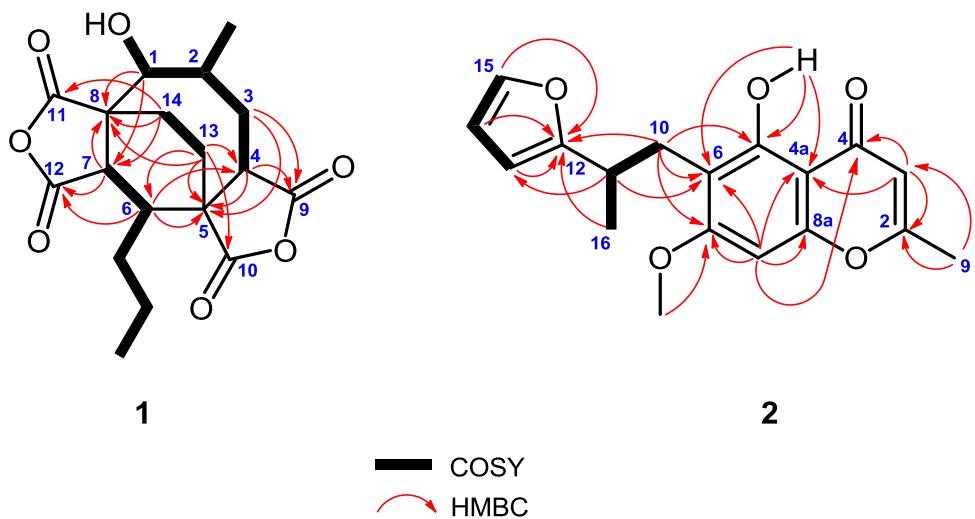
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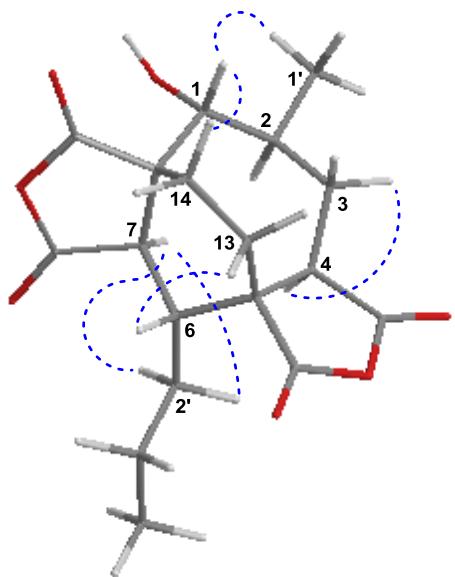
**Table S1.** NMR spectroscopic data for **1** in DMSO-*d*<sub>6</sub> (500 MHz for <sup>1</sup>H)

No.	δ <sub>C</sub> , mult.	δ <sub>H</sub> , mult. ( <i>J</i> in Hz)
1	79.0, CH	3.36, m
2	38.2, CH	1.44, m
3	27.5, CH <sub>2</sub>	1.85, br d (15.1); 1.72, m
4	45.1, CH	3.45, m
5	51.3, C	
6	35.2, CH	2.45, m
7	42.8, CH	2.99, d (8.2)
8	51.8, C	
9	172.5, C	
10	176.1, C	
11	175.7, C	
12	173.8, C	
13	27.0, CH <sub>2</sub>	1.97, m; 1.77, m
14	22.7, CH <sub>2</sub>	2.19, m; 1.96, m
1'	21.7, CH <sub>3</sub>	1.11, d (6.5)
2'	36.2, CH <sub>2</sub>	1.65, m; 1.38, m
3'	21.0, CH <sub>2</sub>	1.49, m; 1.35, m
4'	14.1, CH <sub>3</sub>	0.88, t (7.0)
1-OH		5.90, d (6.9)

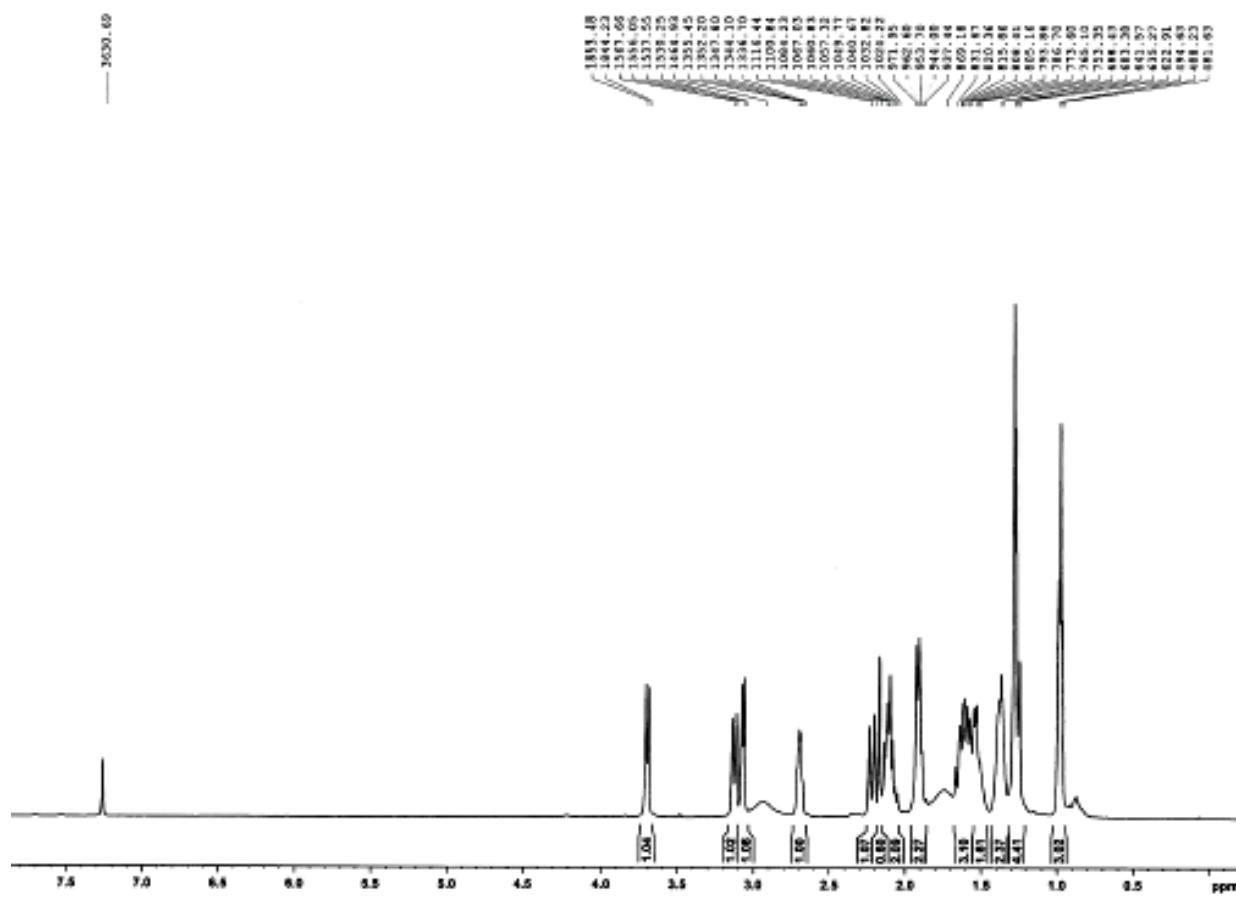
**Figure S1.** COSY and selected HMBC correlations for **1** and **2**.



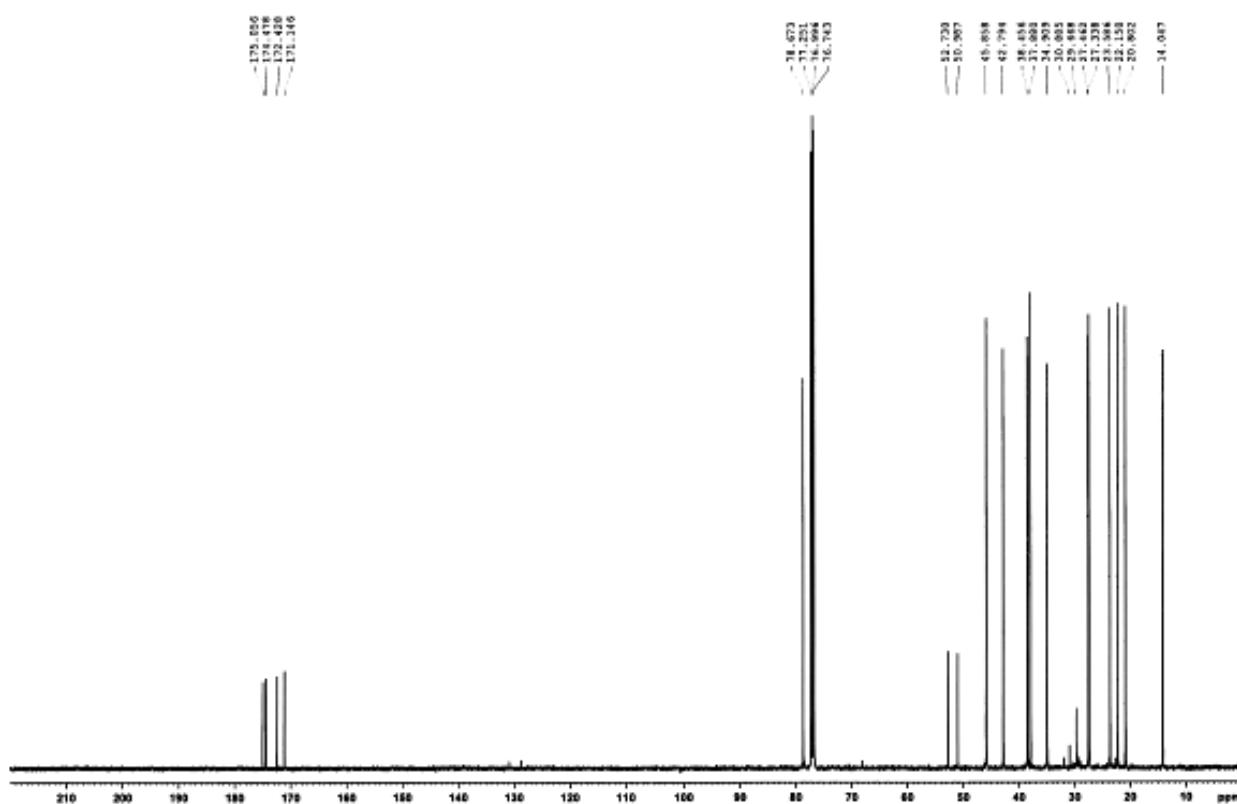
**Figure S2.** Key NOESY correlations for **1**.



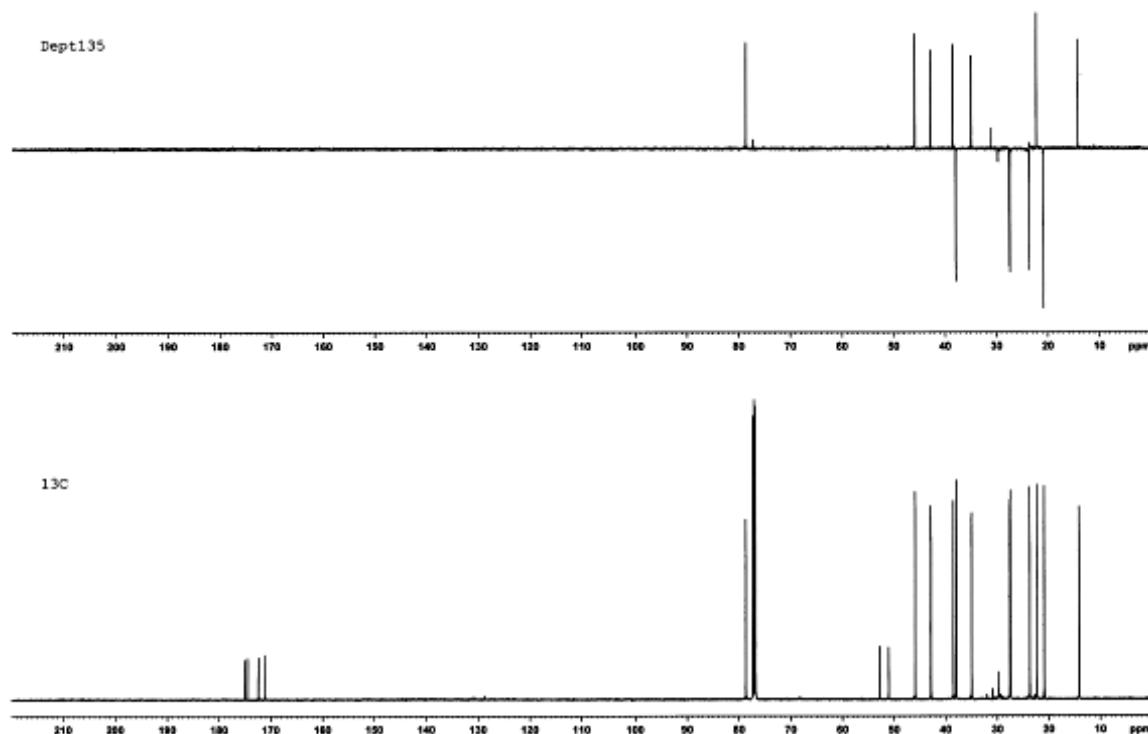
**Figure S3.**  $^1\text{H}$  NMR spectrum of **1** ( $\text{CDCl}_3$ , 500 MHz)



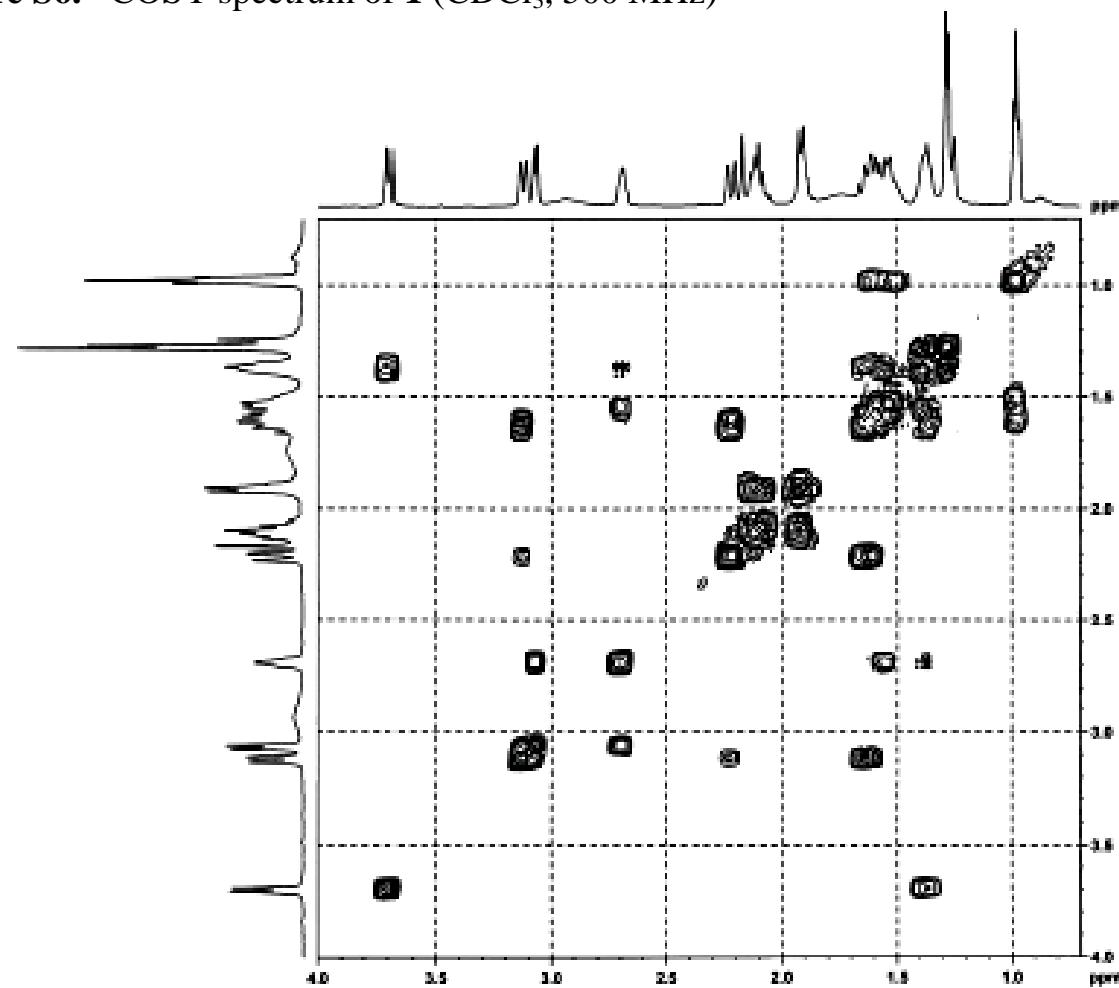
**Figure S4.**  $^{13}\text{C}$  NMR spectrum of **1** ( $\text{CDCl}_3$ , 125 MHz)



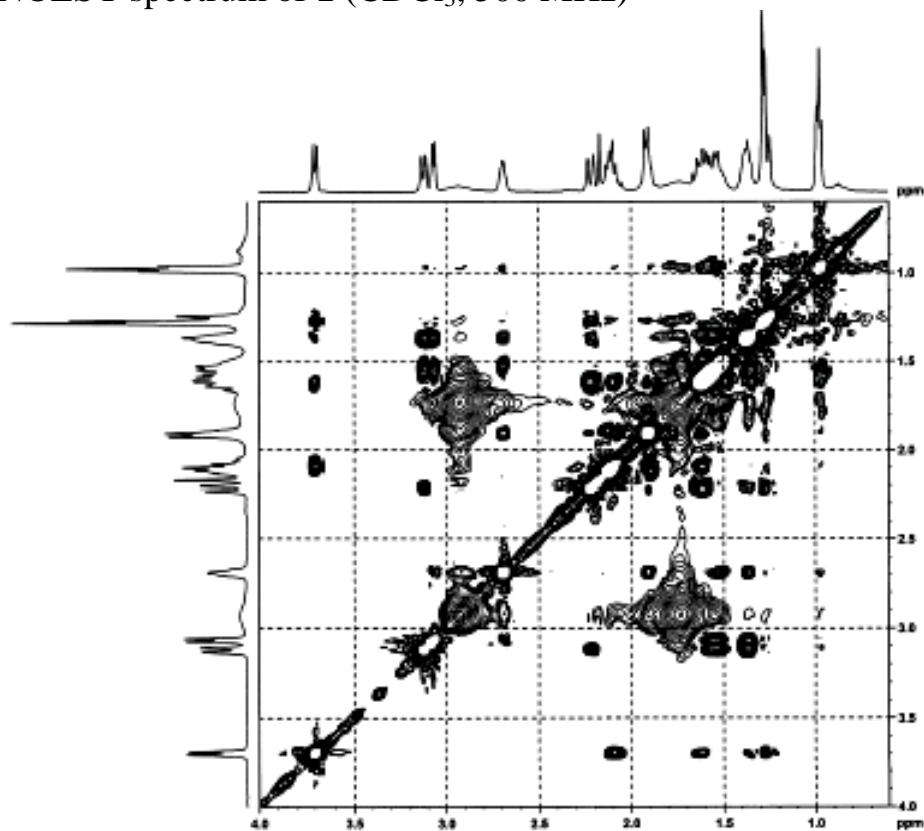
**Figure S5.** DEPT-135 spectrum of **1** ( $\text{CDCl}_3$ , 125 MHz)



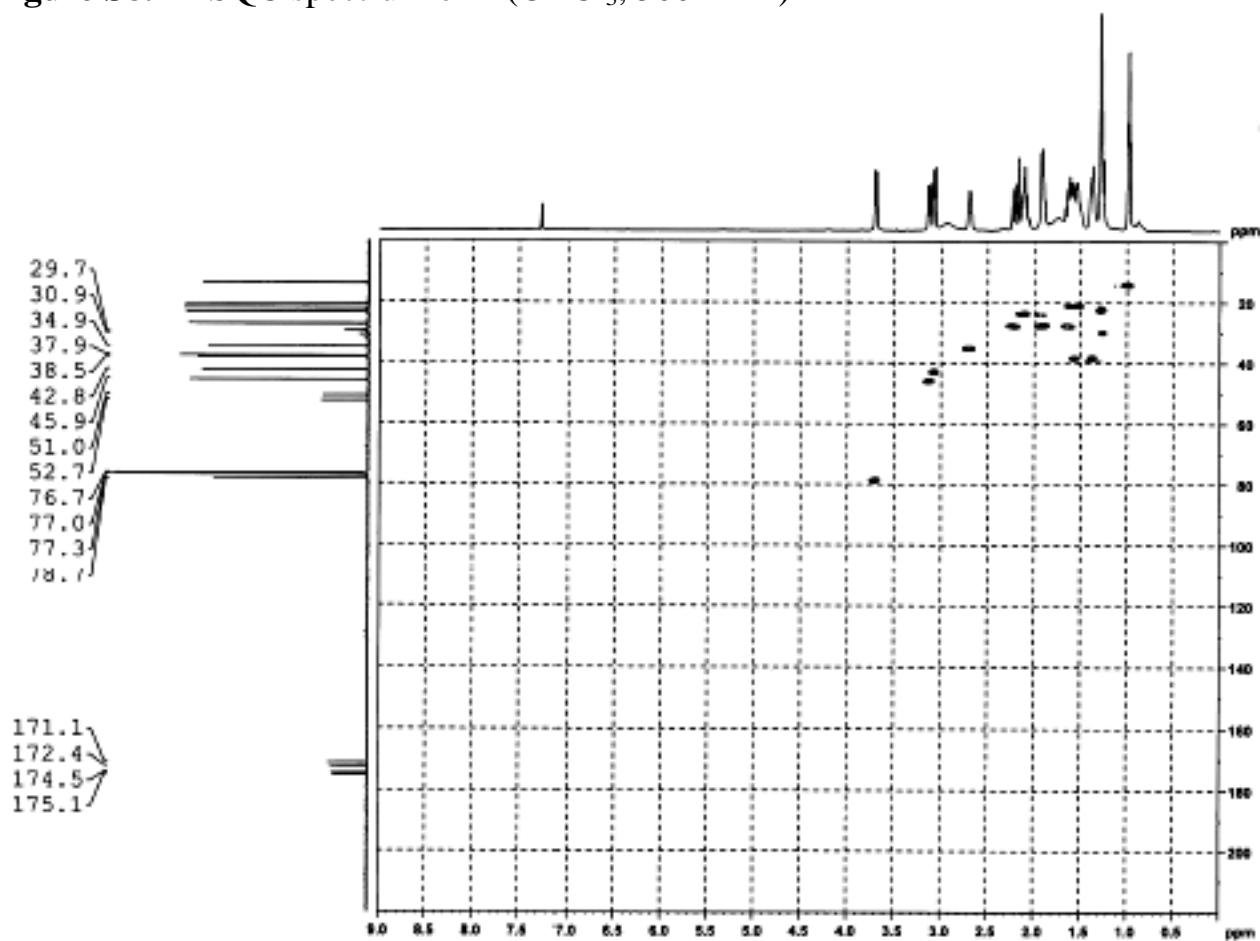
**Figure S6.** COSY spectrum of **1** ( $\text{CDCl}_3$ , 500 MHz)



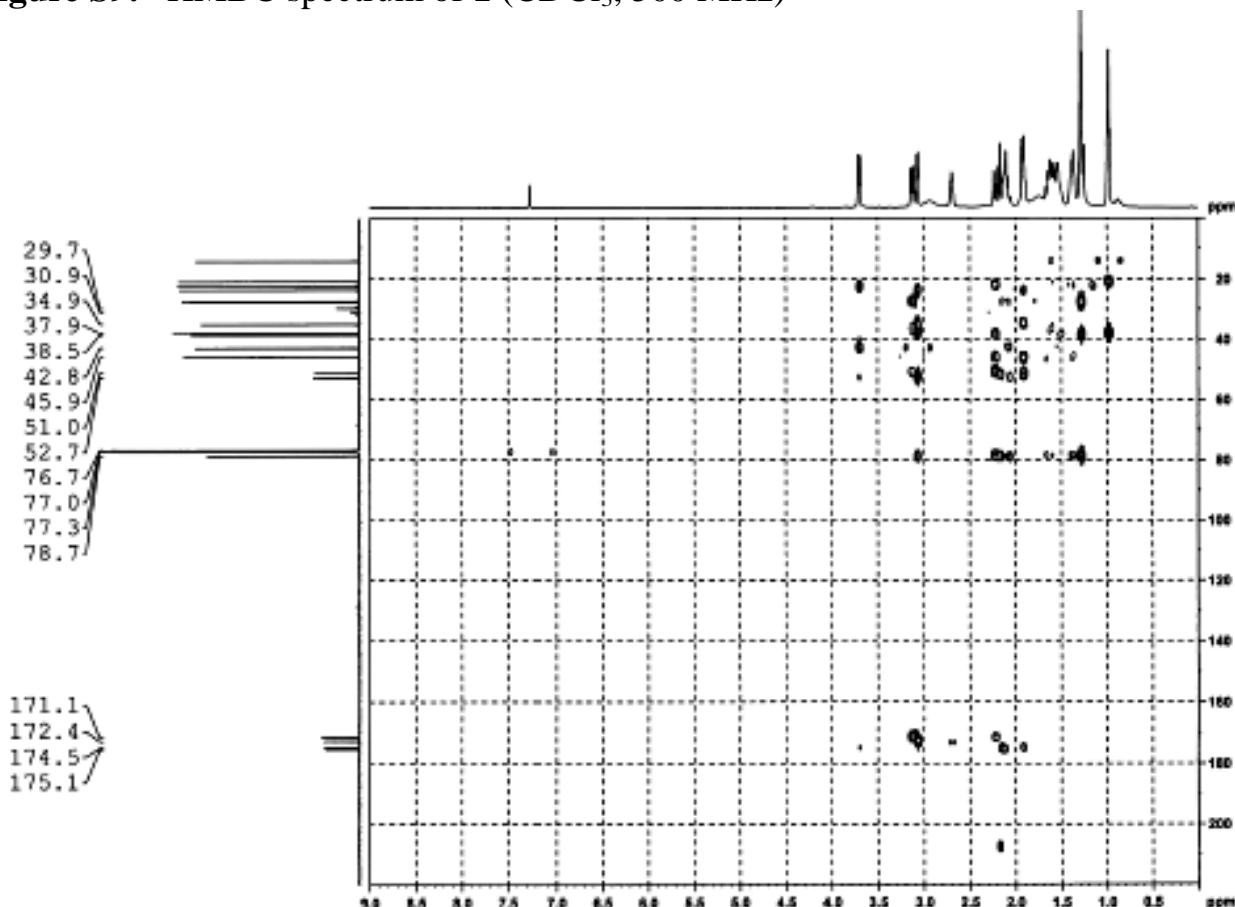
**Figure S7.** NOESY spectrum of **1** ( $\text{CDCl}_3$ , 500 MHz)



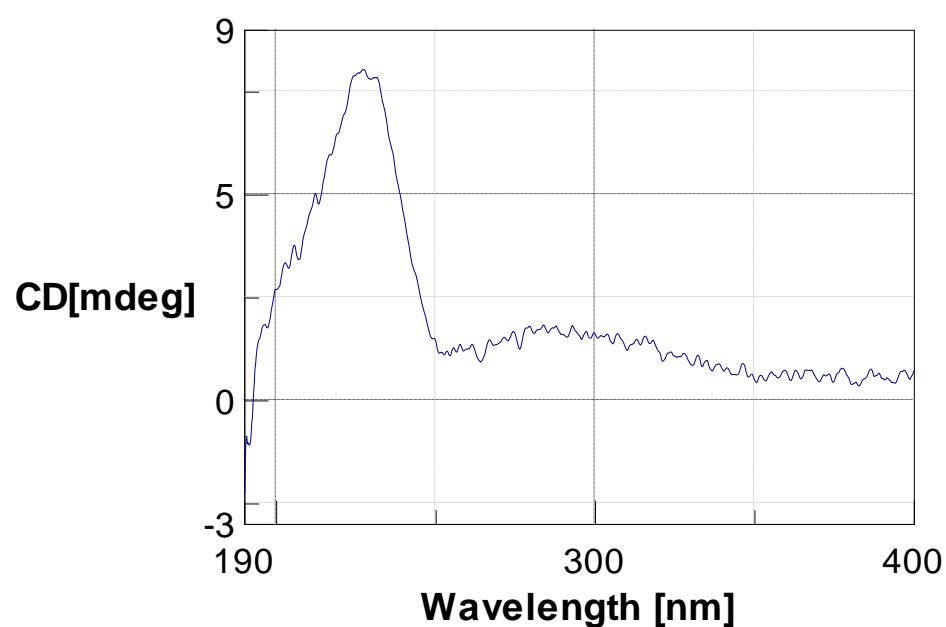
**Figure S8.** HSQC spectrum of **1** ( $\text{CDCl}_3$ , 500 MHz)



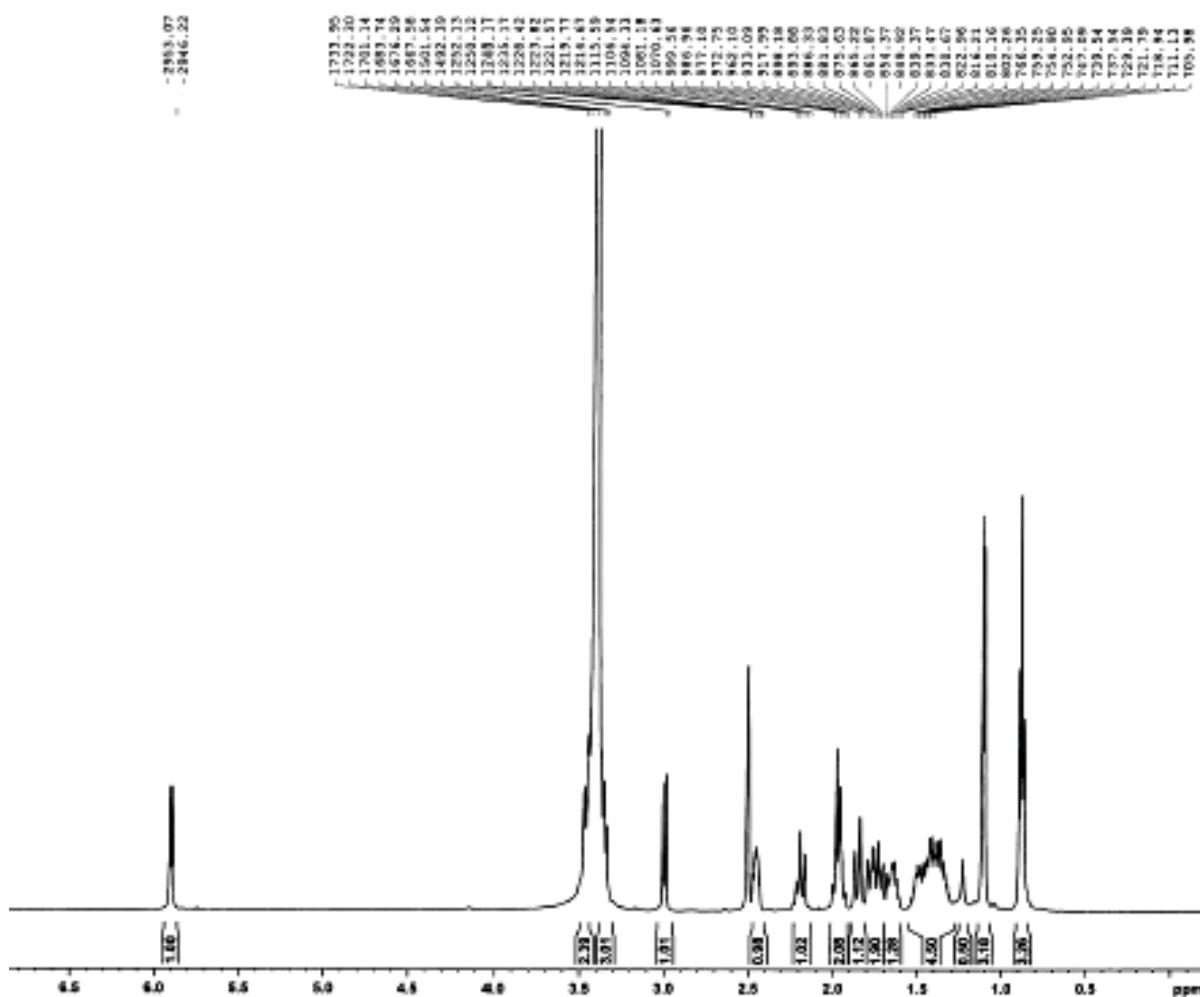
**Figure S9.** HMBC spectrum of **1** ( $\text{CDCl}_3$ , 500 MHz)



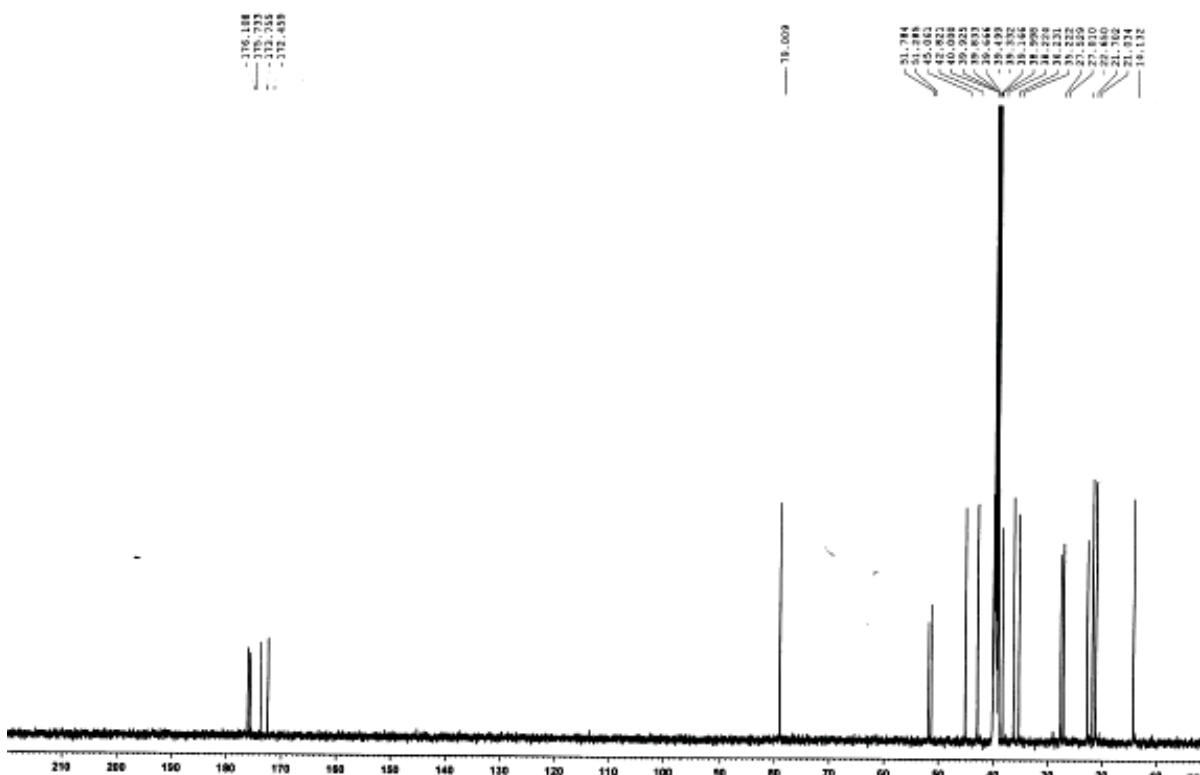
**Figure S10.** CD spectrum of **1** ( $\text{MeCN}$ ,  $c$  0.005)



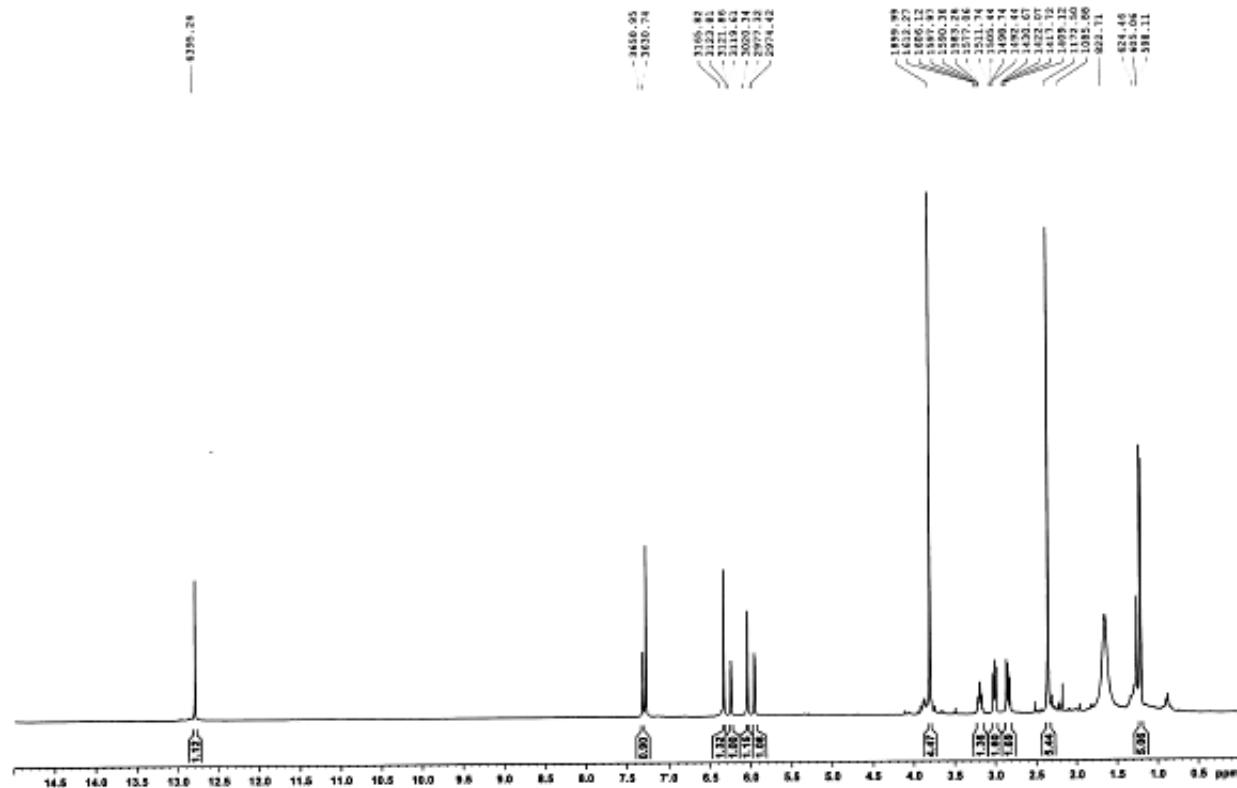
**Figure S11.**  $^1\text{H}$  NMR spectrum of **1** (DMSO- $d_6$ , 500 MHz)



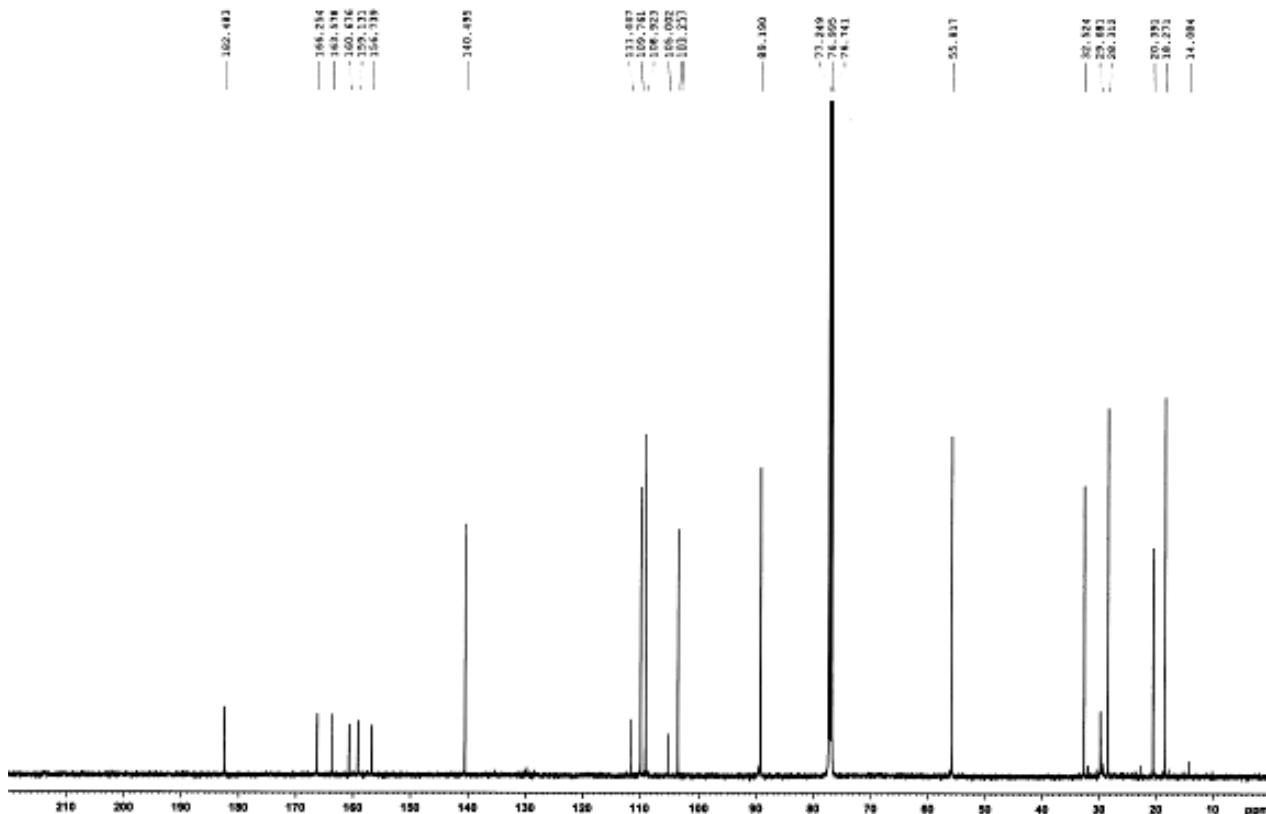
**Figure S12.**  $^{13}\text{C}$  NMR spectrum of **1** (DMSO- $d_6$ , 125 MHz)



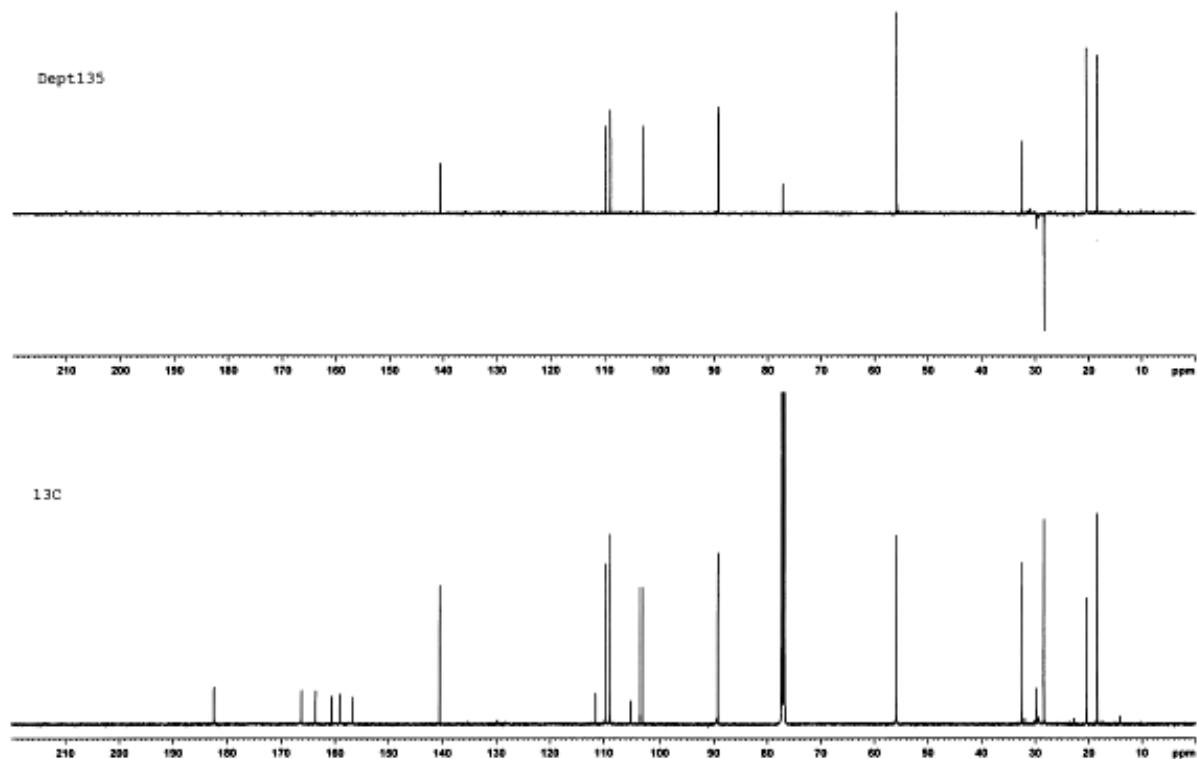
**Figure S13.**  $^1\text{H}$  NMR spectrum of **2** ( $\text{CDCl}_3$ , 500 MHz)



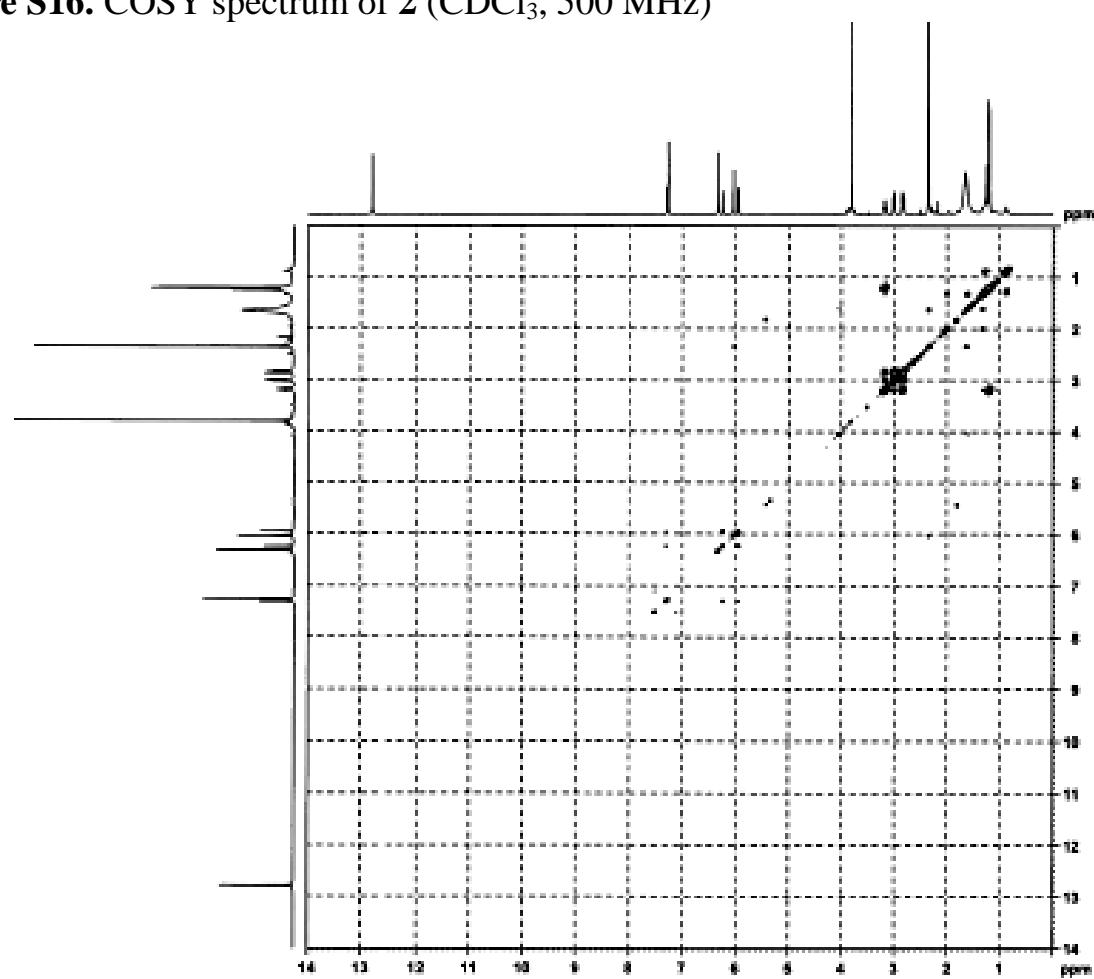
**Figure S14.**  $^{13}\text{C}$  NMR spectrum of **2** ( $\text{CDCl}_3$ , 125 MHz)



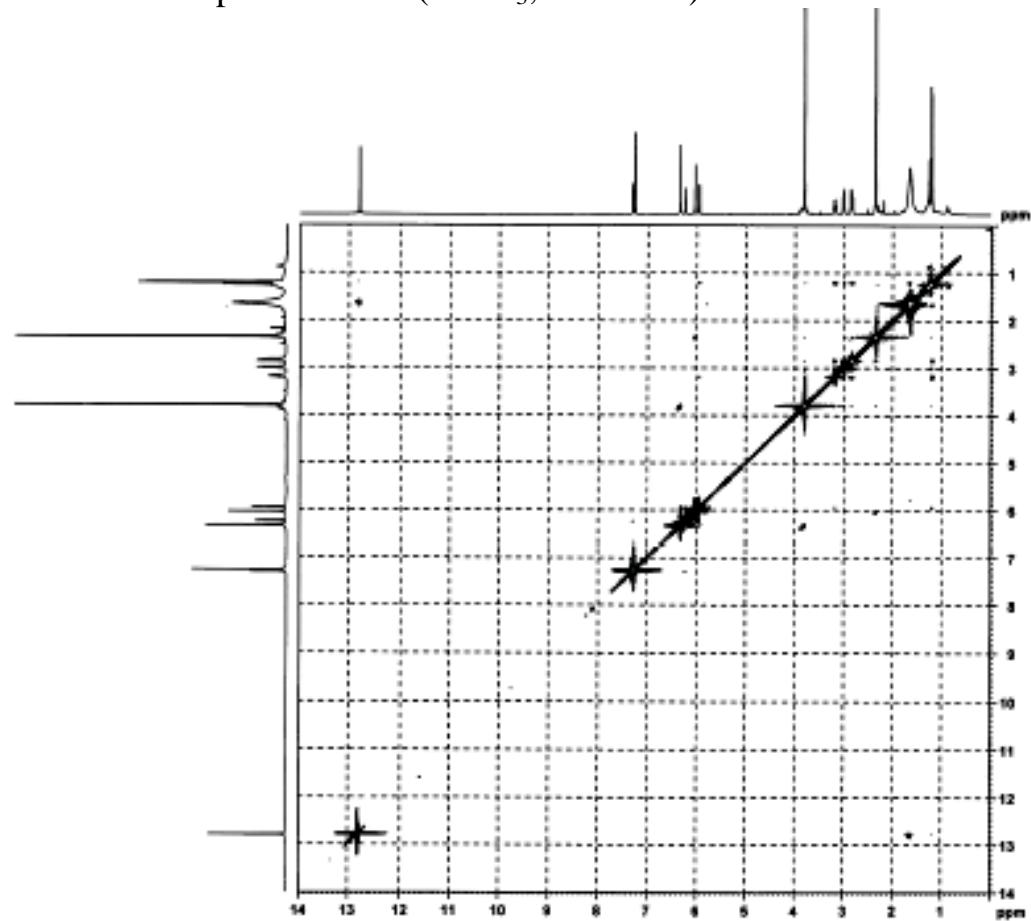
**Figure S15.** DEPT-135 spectrum of **2** ( $\text{CDCl}_3$ , 125 MHz)



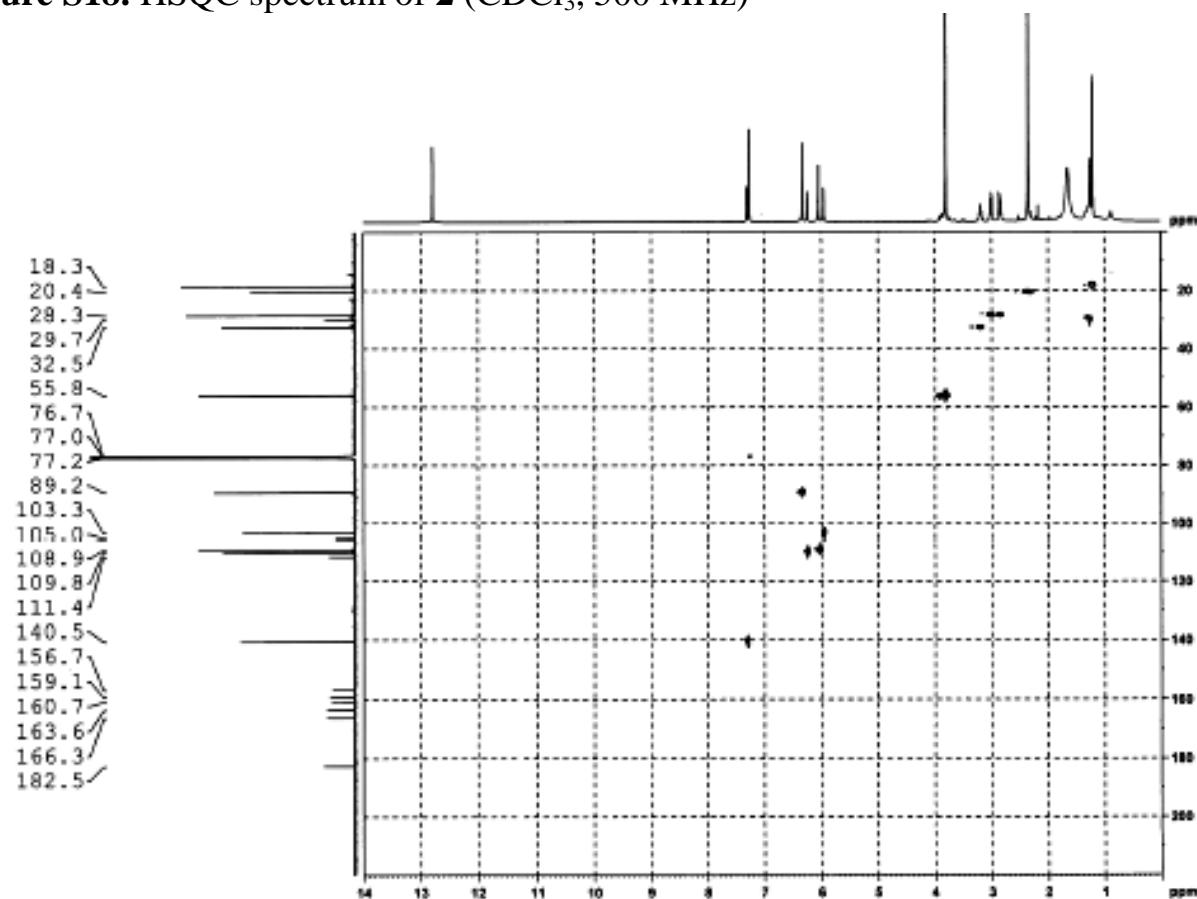
**Figure S16.** COSY spectrum of **2** ( $\text{CDCl}_3$ , 500 MHz)



**Figure S17.** NOESY spectrum of **2** ( $\text{CDCl}_3$ , 500 MHz)



**Figure S18.** HSQC spectrum of **2** ( $\text{CDCl}_3$ , 500 MHz)



**Figure S19.** HMBC spectrum of **2** ( $\text{CDCl}_3$ , 500 MHz)

