

## Supporting Information

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### Two New Bibenzyls from *Dendrobium hercoglossum*

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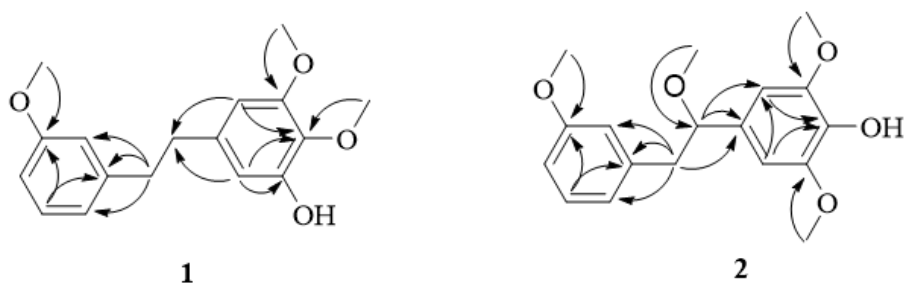
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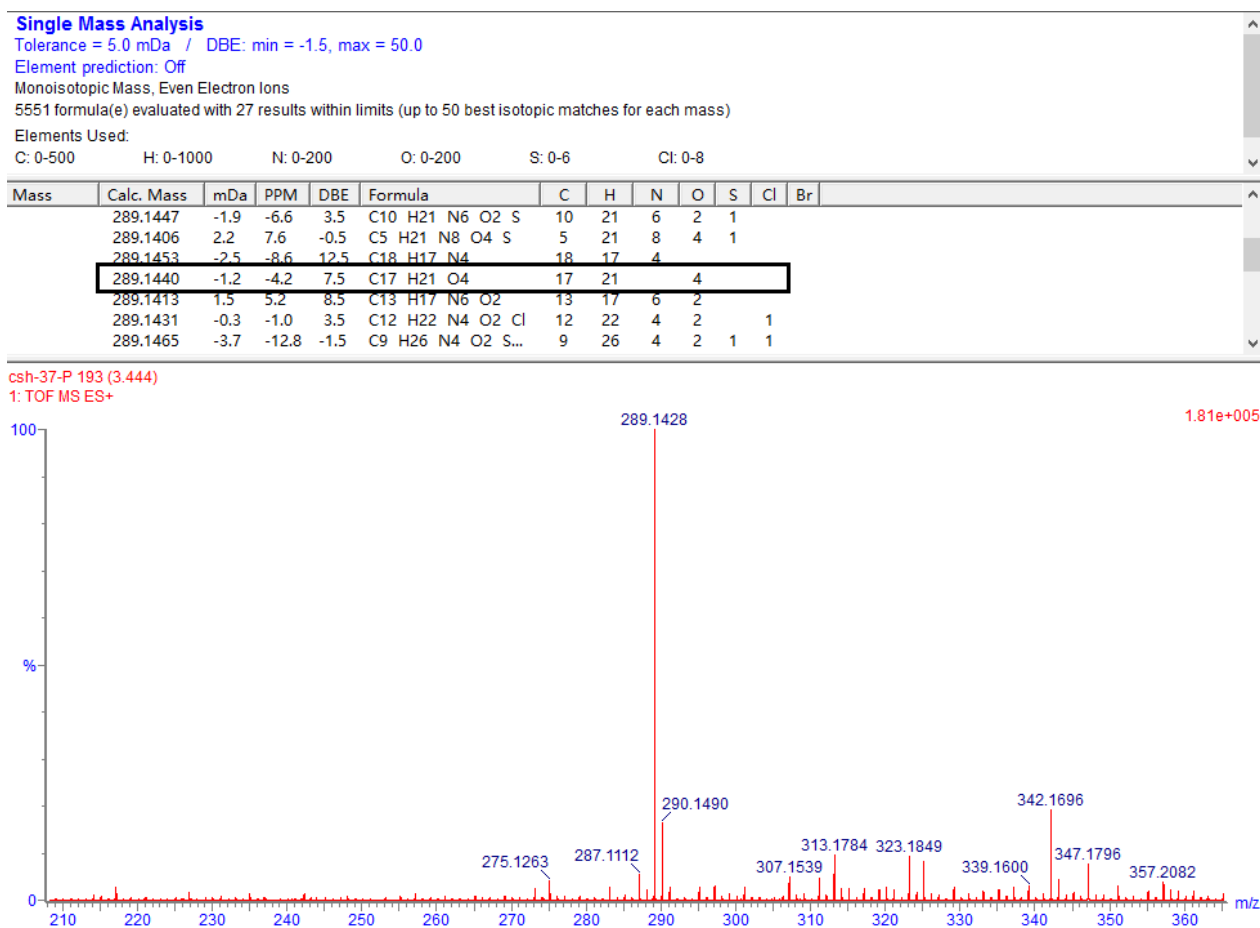
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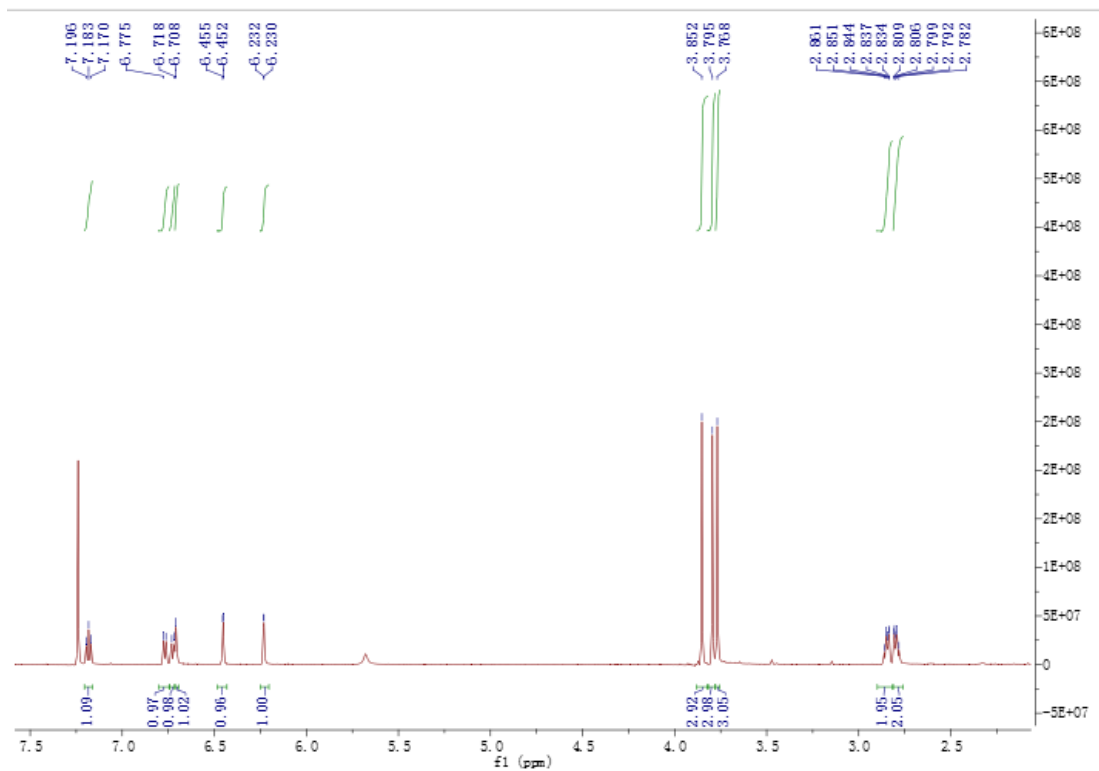
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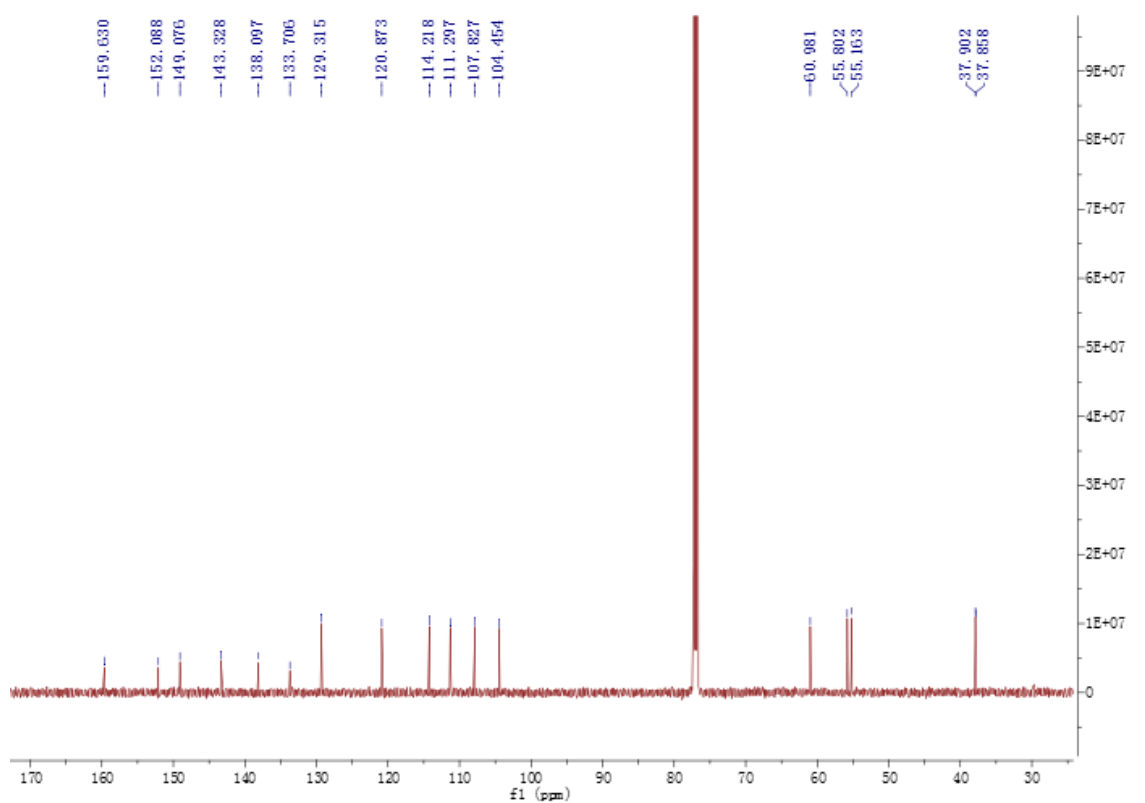
**Figure S1.** Key HMBC correlations of **1** and **2**



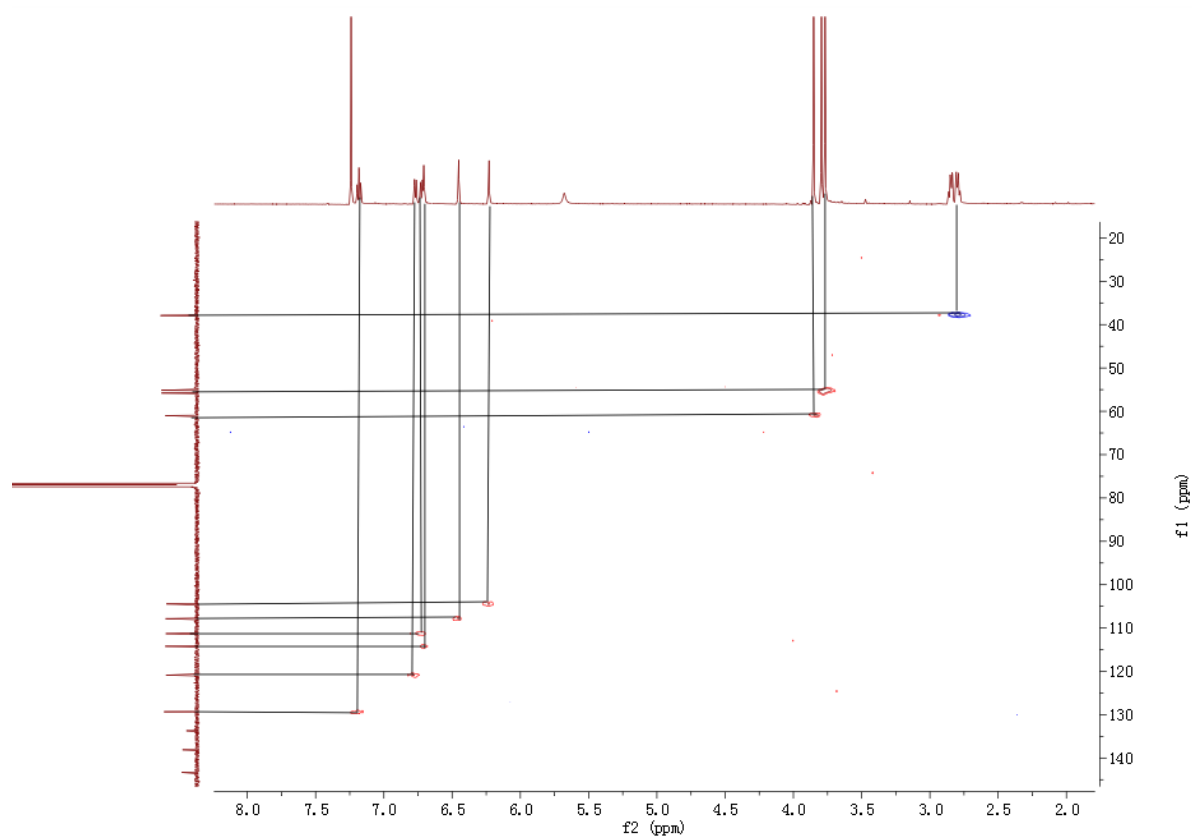
**Figure S2:** HR-ESI-MS spectrum of **1** (3-hydroxy-4, 5, 3'-trimethoxybibenzyl)



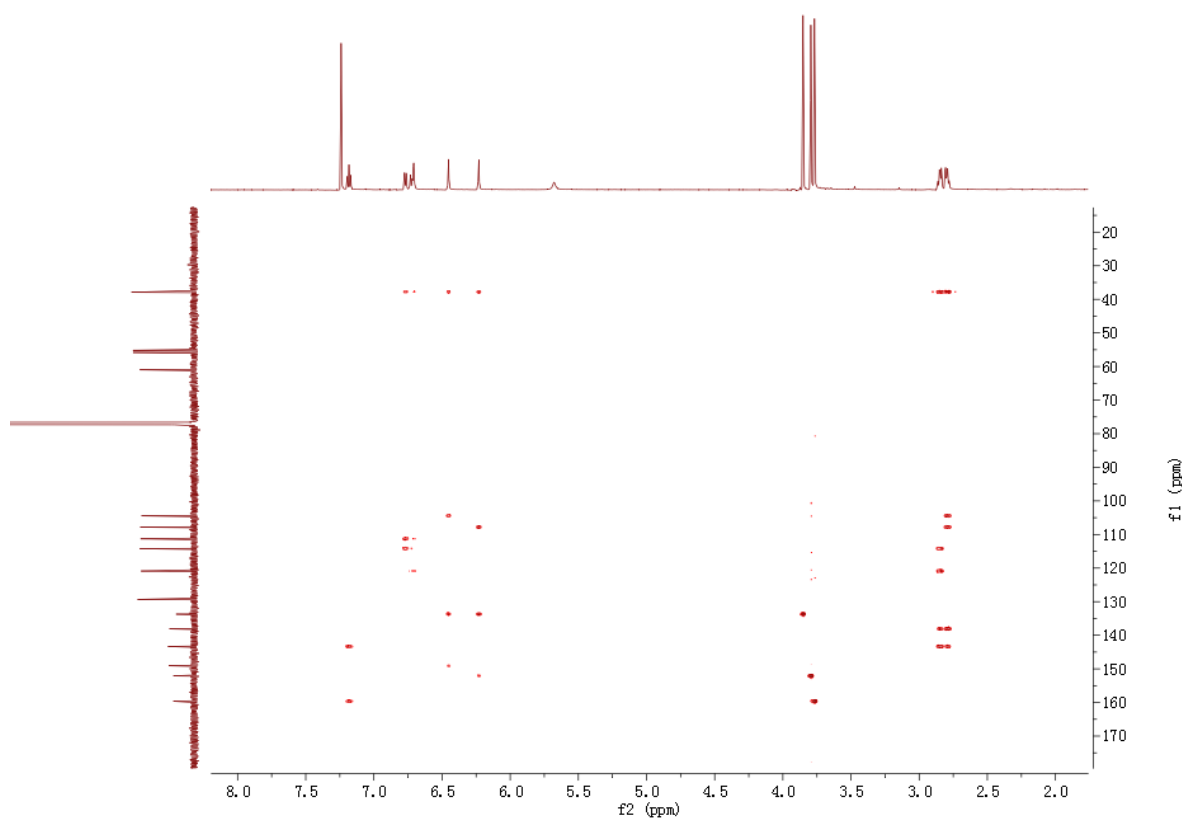
**Figure S3:**  $^1\text{H-NMR}$  (600 MHz,  $\text{CDCl}_3$ ) spectrum of **1** (3-hydroxy-4, 5, 3'-trimethoxybenzyl)



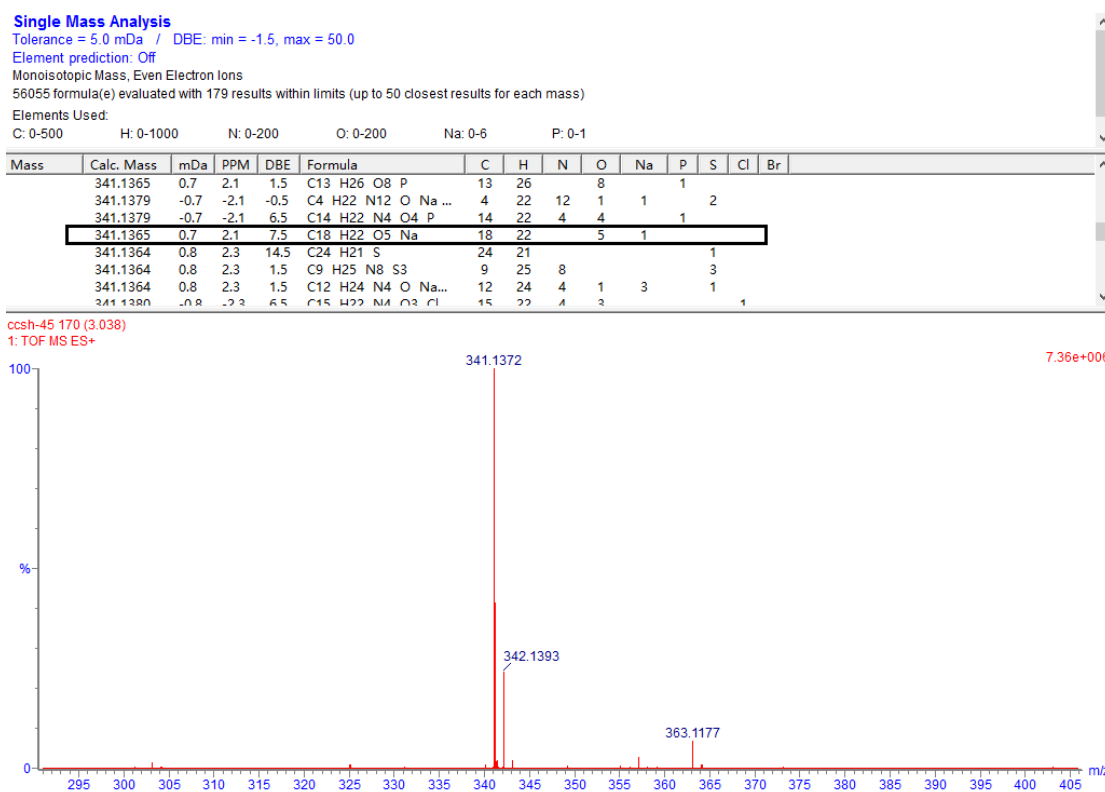
**Figure S4:**  $^{13}\text{C-NMR}$  (150 MHz,  $\text{CDCl}_3$ ) spectrum of **1** (3-hydroxy-4, 5, 3'-trimethoxybenzyl)



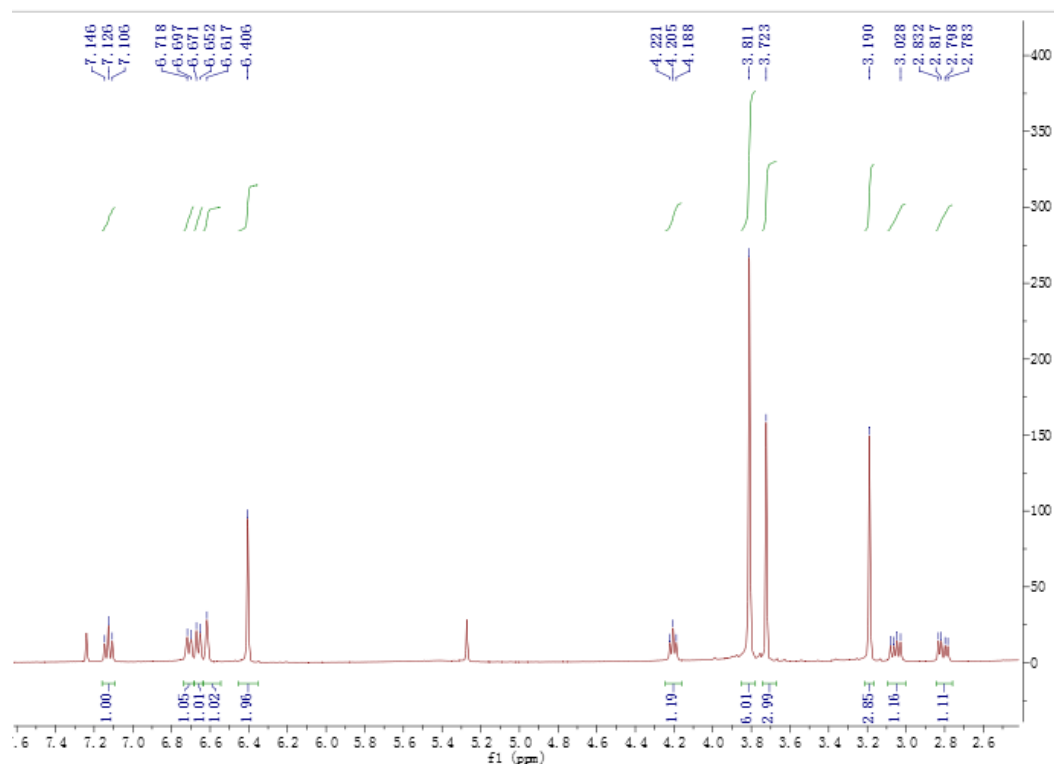
**Figure S5:** HSQC spectrum of **1** (3-hydroxy-4, 5, 3'-trimethoxybiphenyl)



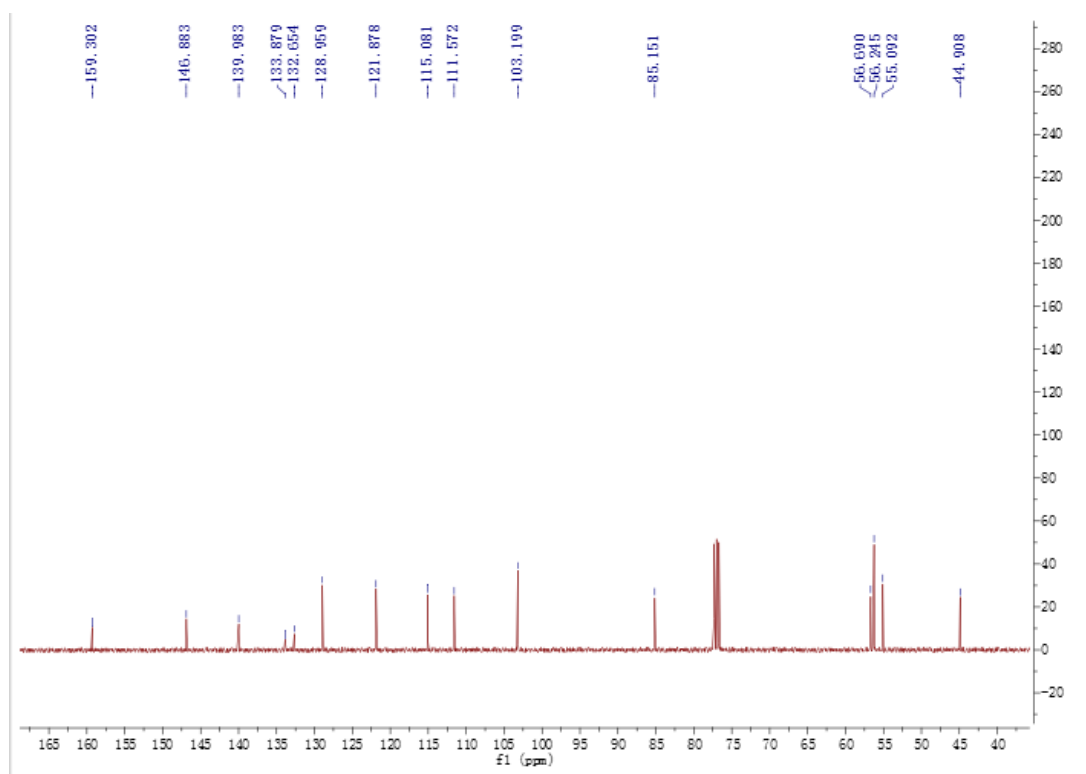
**Figure S6:** HMBC spectrum of **1** (3-hydroxy-4, 5, 3'-trimethoxybiphenyl)



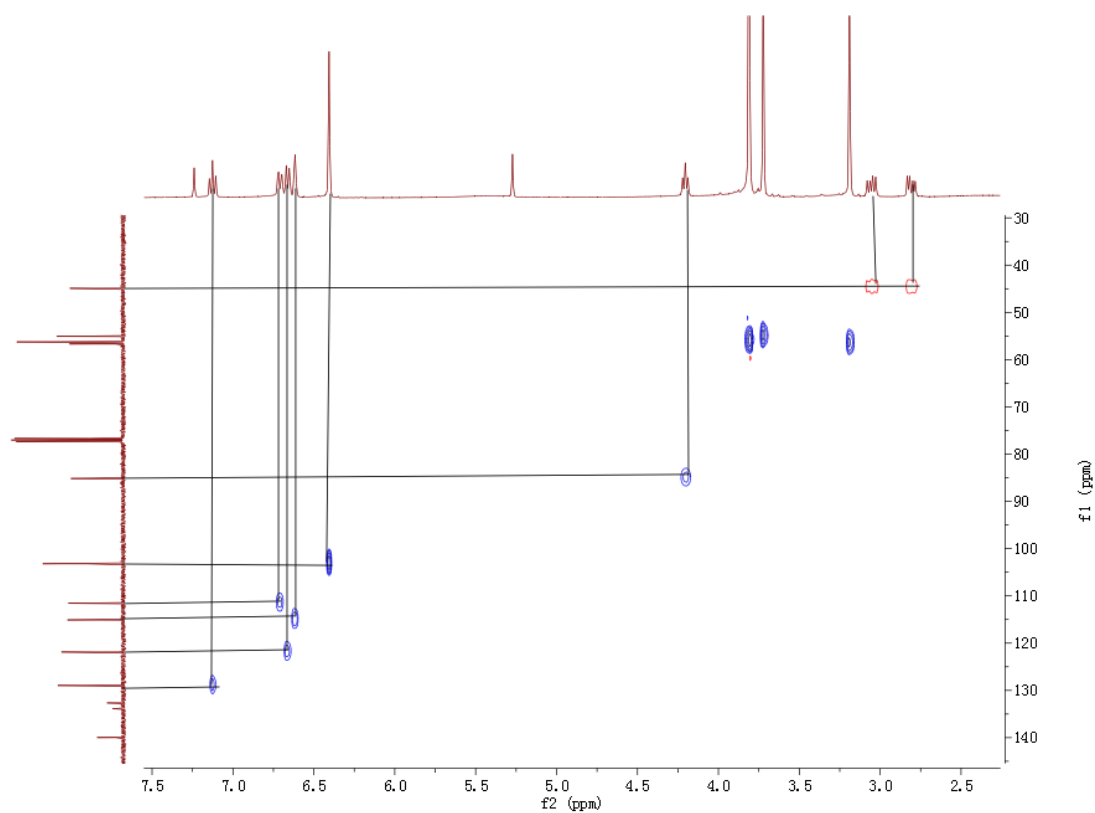
**Figure S7:** HR-ESI-MS spectrum of **2** (4-hydroxy-3, 5, 3',  $\alpha$ - tetramethoxybiphenyl)



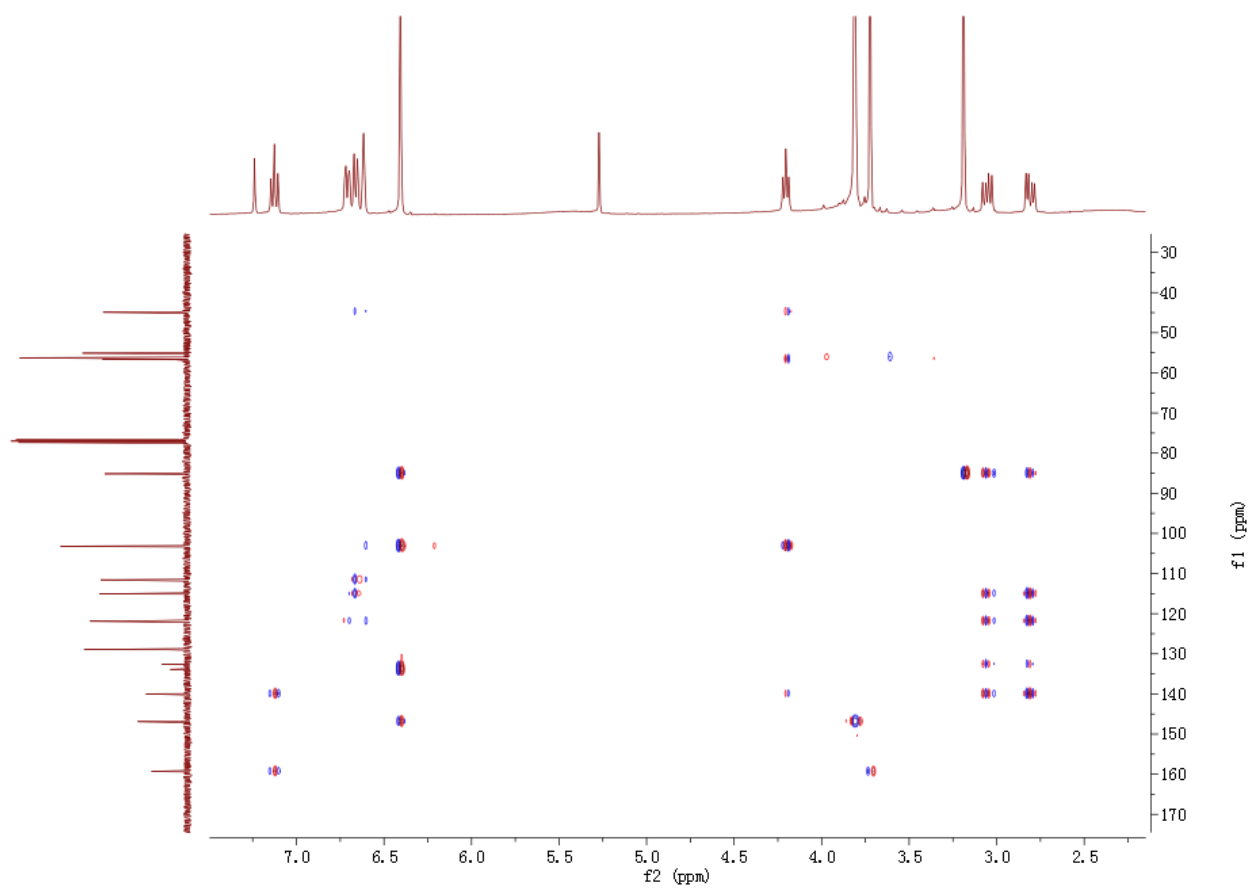
**Figure S8:**  $^1\text{H-NMR}$  (400 MHz,  $\text{CDCl}_3$ ) spectrum of **2** (4-hydroxy-3, 5, 3',  $\alpha$ - tetramethoxybiphenyl)



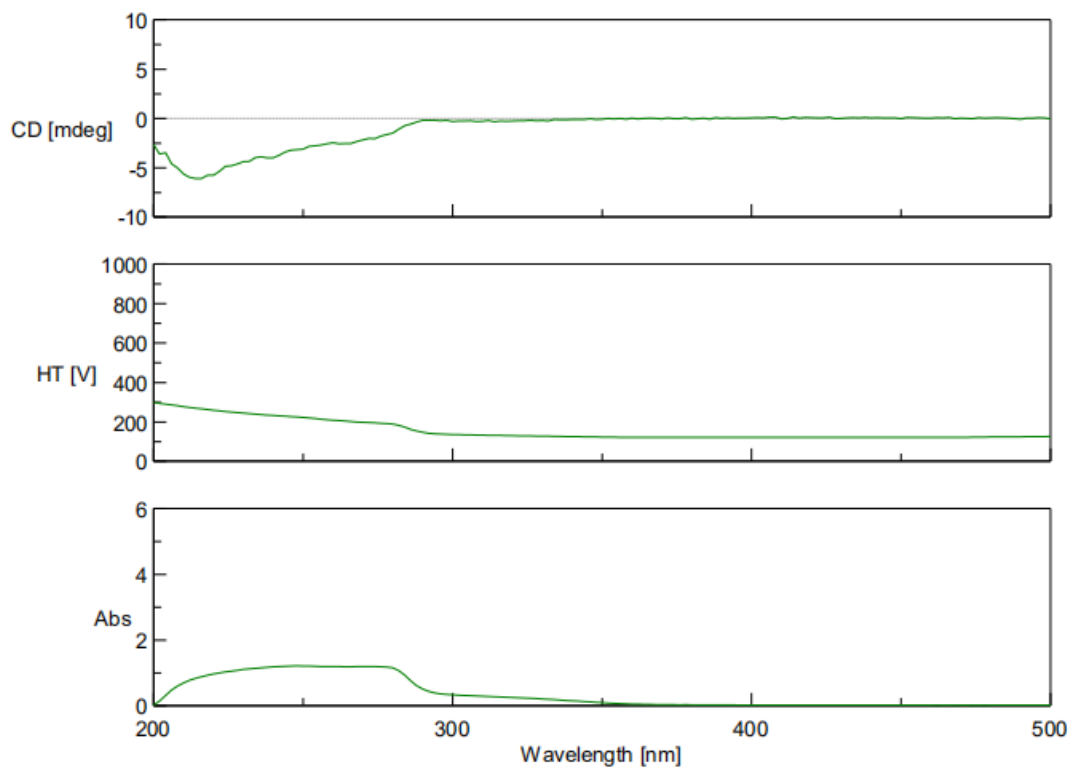
**Figure S9:**  $^{13}\text{C}$ -NMR (100 MHz,  $\text{CDCl}_3$ ) spectrum of **2** (4-hydroxy-3, 5, 3',  $\alpha$ - tetramethoxybenzyl)



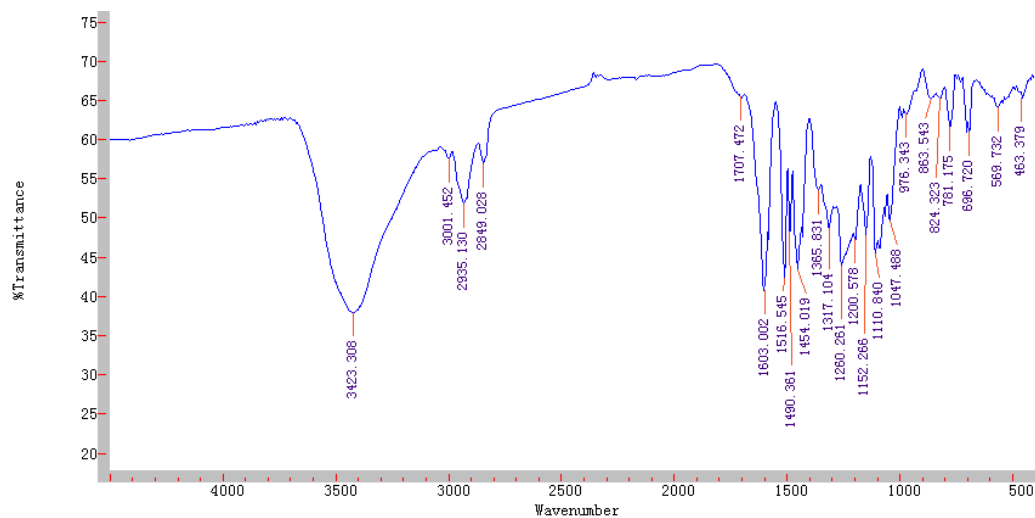
**Figure S10:** HSQC spectrum of **2** (4-hydroxy-3, 5, 3',  $\alpha$ - tetramethoxybenzyl)



**Figure S11:** HMBC spectrum of **2** (4-hydroxy-3, 5, 3',  $\alpha$ - tetramethoxybibenzyl)

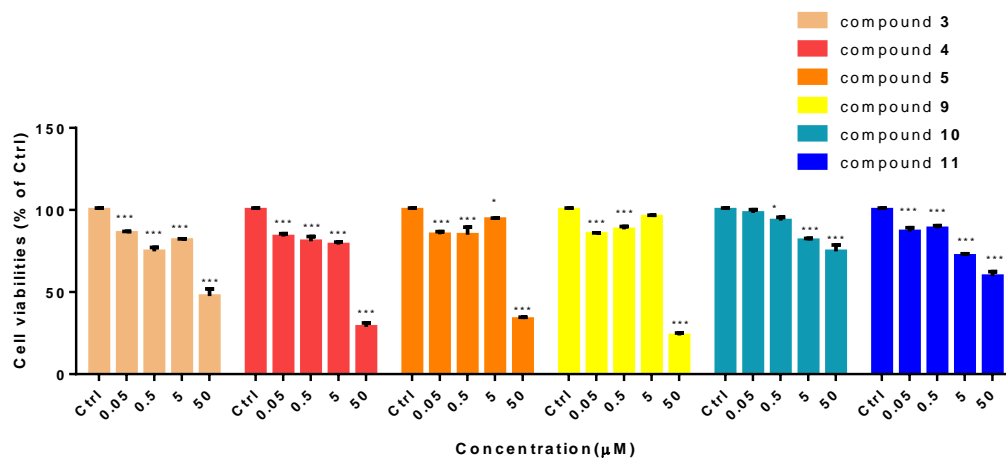


**Figure S12:** ECD spectrum of **2** (4-hydroxy-3, 5, 3',  $\alpha$ - tetramethoxybibenzyl)



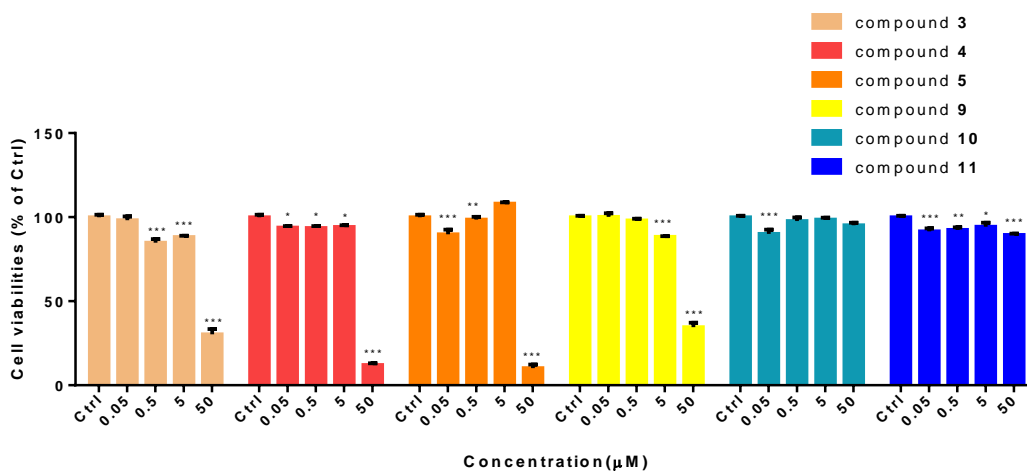
**Figure S13:** IR spectrum of **2** (4-hydroxy-3, 5, 3',  $\alpha$ - tetramethoxybibenzyl)





**Figure S14:** The cytotoxic activities against MDA-MB-231 of compounds

(Results are expressed as mean  $\pm$  SEM. Statistical significance compared to the control, \*  $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$ .)



**Figure S15:** The cytotoxic activities against Hela of compounds

(Results are expressed as mean  $\pm$  SEM. Statistical significance compared to the control, \*  $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$ .)