

# Supplementary Information

## Cytotoxic Chalcones from *Desmodium oxyphyllum*

Xue-Mei Gao,<sup>a</sup> Huan Wang,<sup>a</sup> Yin-Ke Li,<sup>b</sup> Bing-Kun Ji,<sup>a</sup> Cong-Fang Xia,<sup>a</sup> Juan-Xia Yang,<sup>b</sup> Min Zhou,<sup>a</sup> Yan-Qing Ye,<sup>a</sup> and Qiu-Fen Hu<sup>\*,a</sup>

<sup>a</sup>Key Laboratory of Chemistry in Ethnic Medicinal Resources, State Ethnic Affairs Commission & Ministry of Education, Yunnan Minzu University, 650031 Kunming, P. R. China

<sup>b</sup>College of Resource and Environment, Yuxi Normal University, 653100 Yuxi, P. R. China

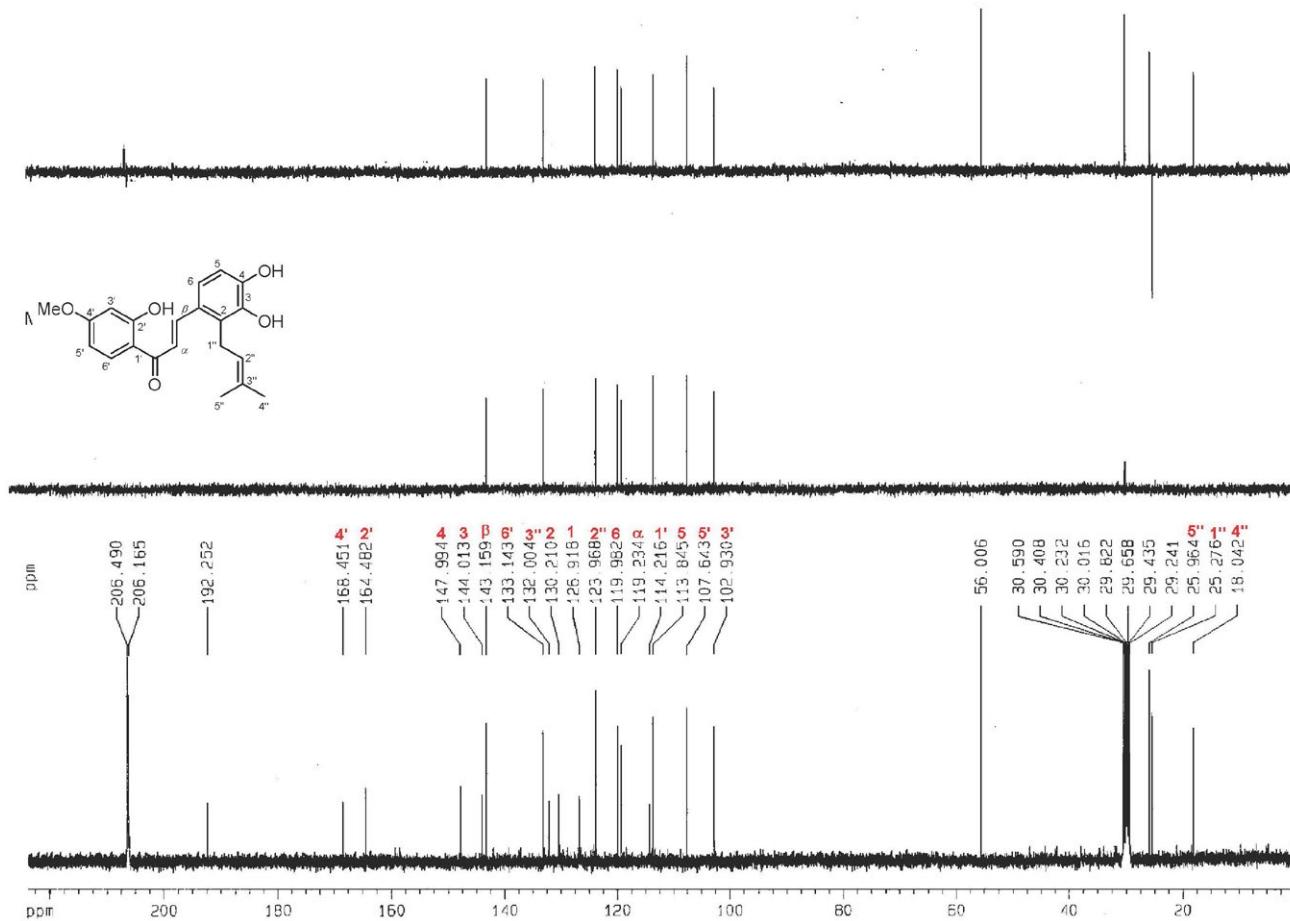
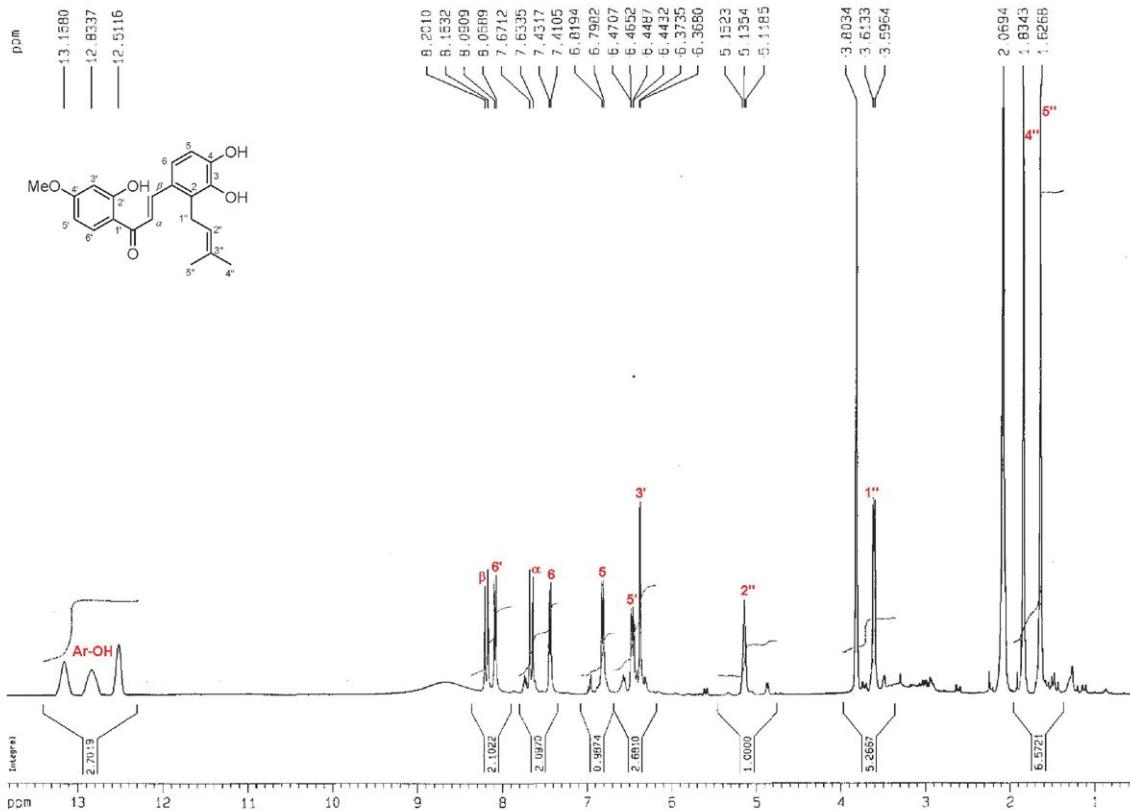
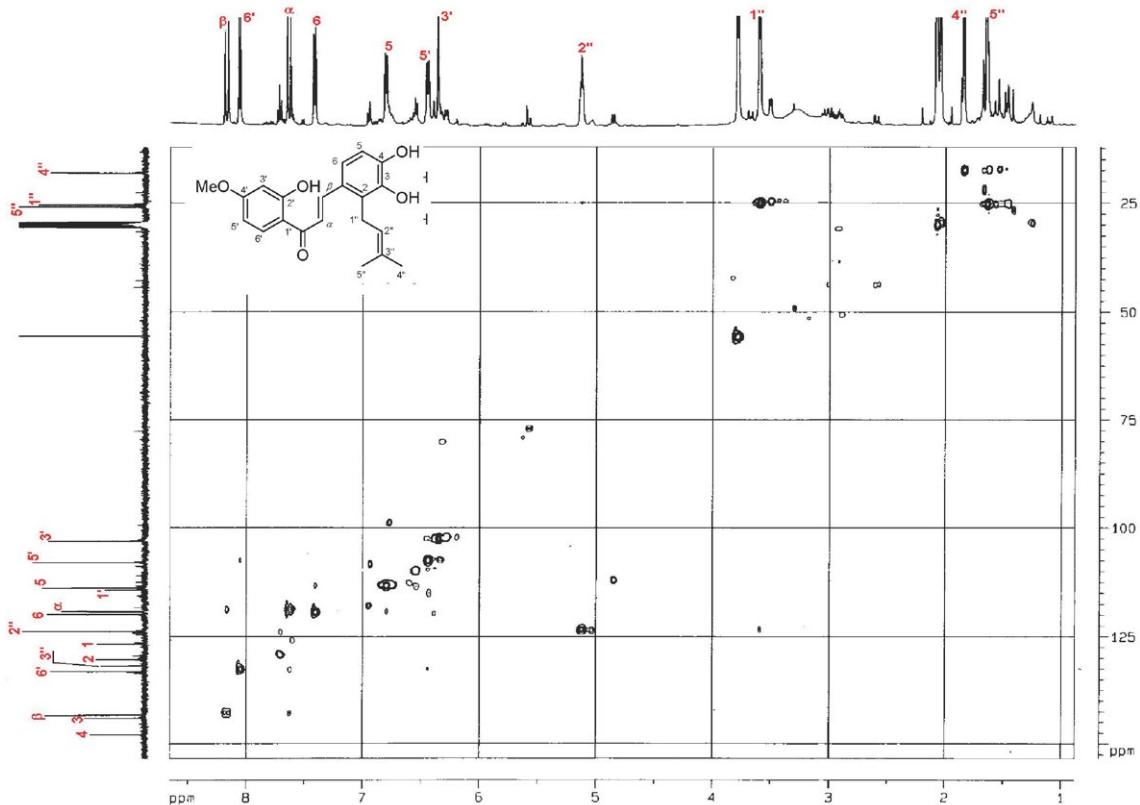


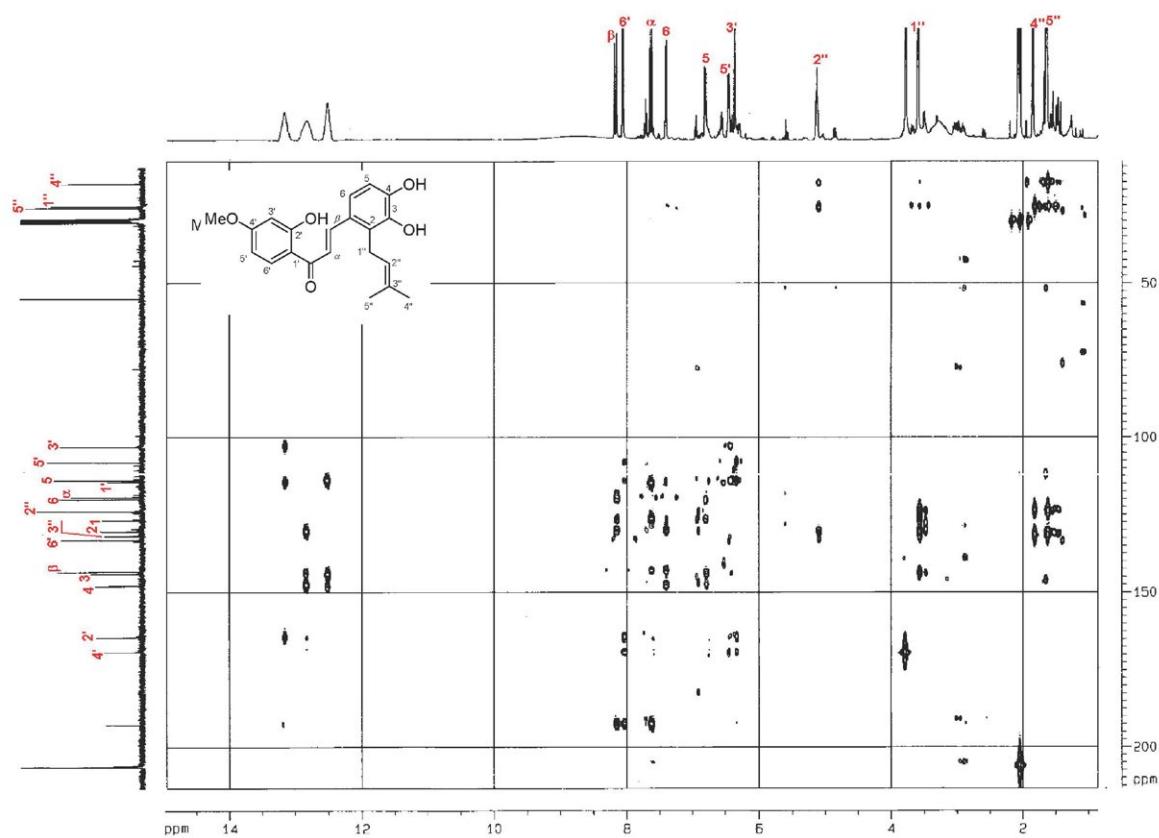
Figure S1. <sup>13</sup>C NMR and DEPT [125 MHz, (CD<sub>3</sub>)<sub>2</sub>CO] spectra of oxyphyllumchalcone A (1).



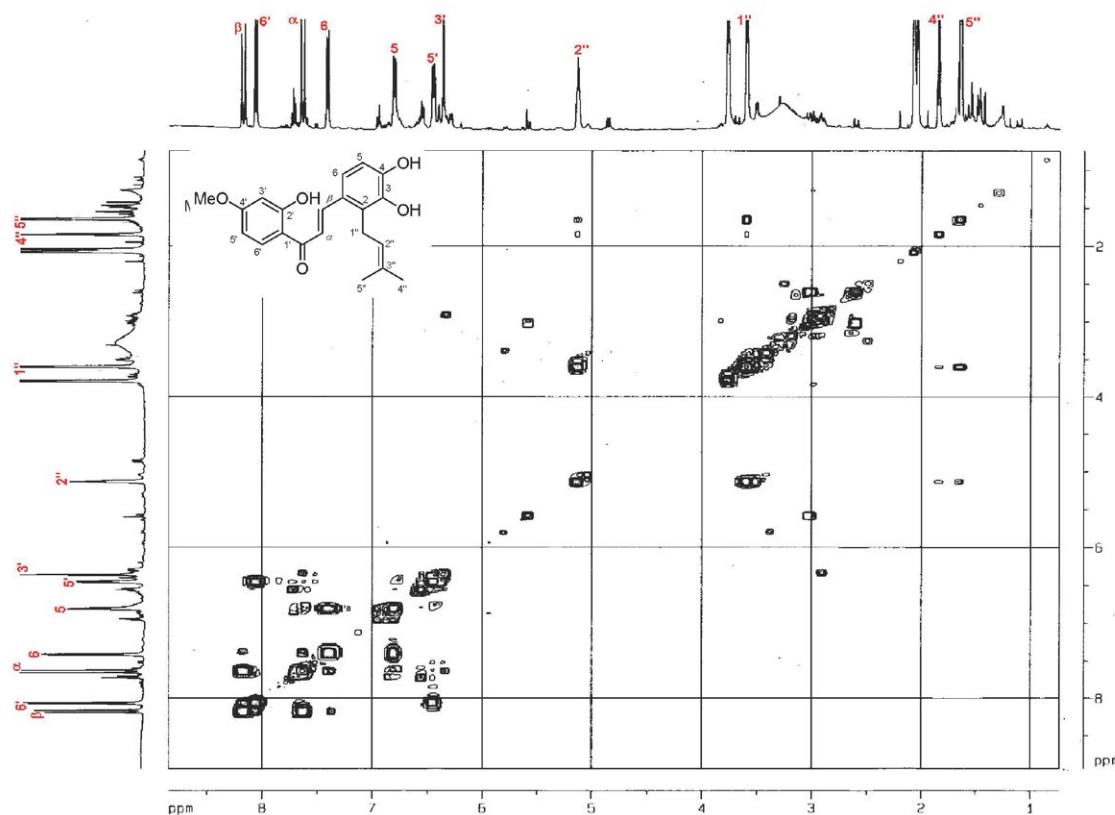
**Figure S2.** <sup>1</sup>H NMR spectrum [500 MHz,  $(CD_3)_2CO$ ] of oxyphyllumchalcone A (**1**).



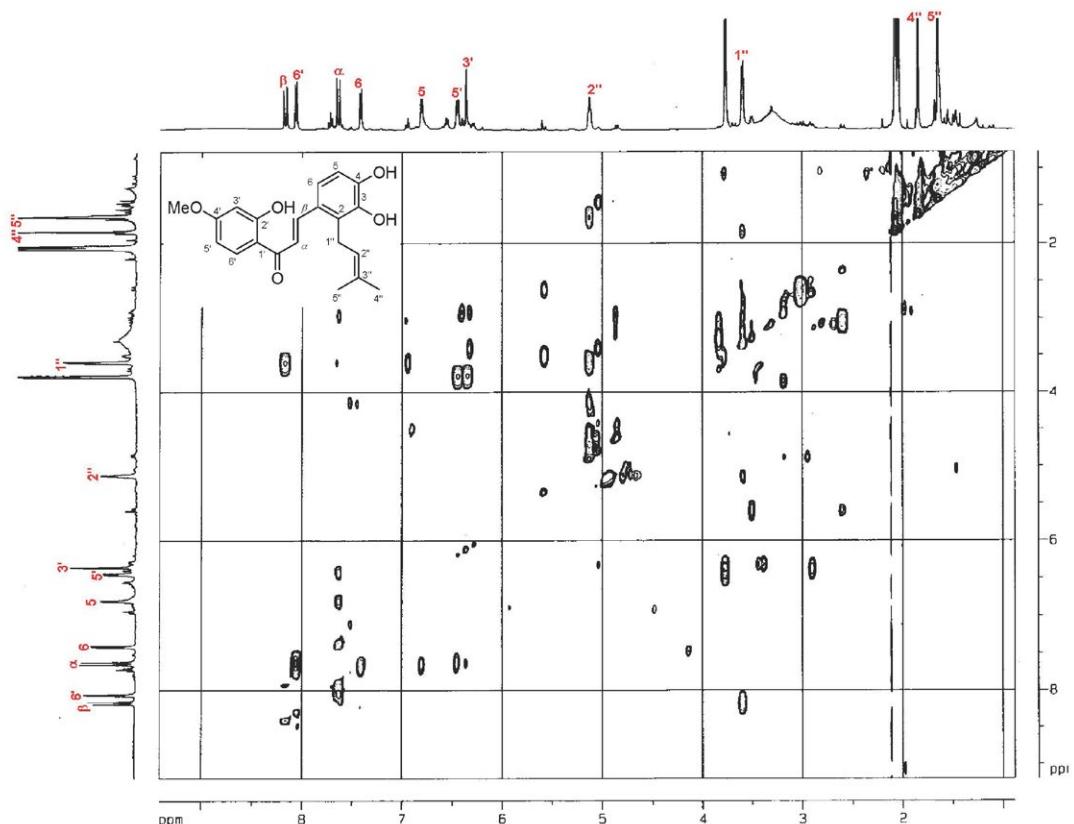
**Figure S3.** HSQC spectrum [500 MHz,  $(CD_3)_2CO$ ] of oxyphyllumchalcone A (**1**).



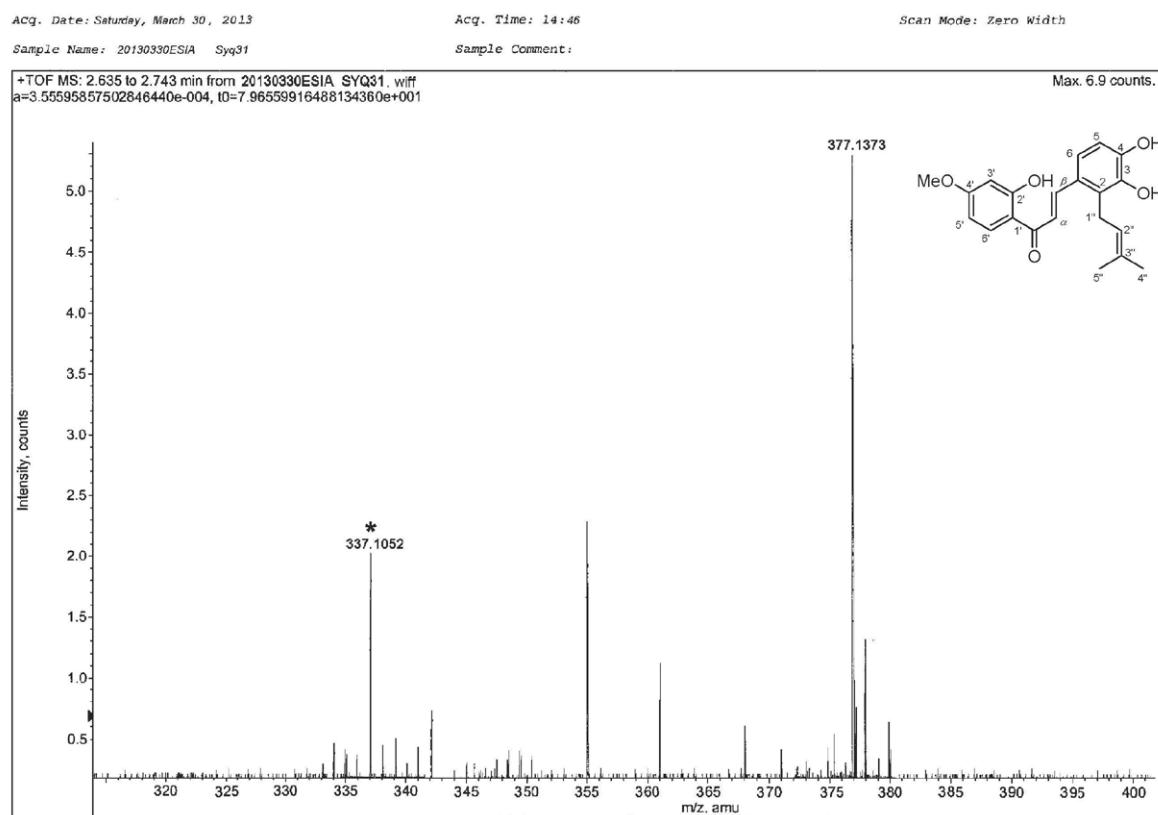
**Figure S4.** HMBC spectrum [500 MHz,  $(\text{CD}_3)_2\text{CO}$ ] of oxyphyllumchalcone A (1).



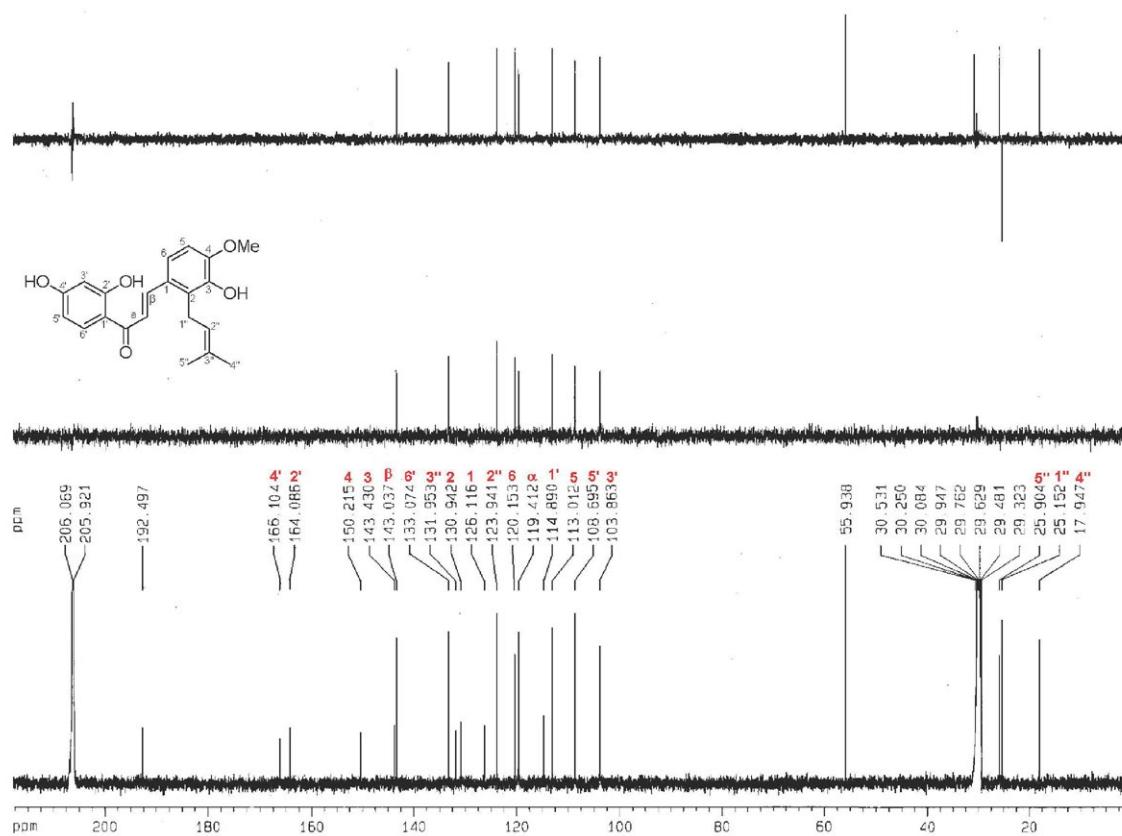
**Figure S5.** <sup>1</sup>H-<sup>1</sup>H COSY spectrum [500 MHz,  $(\text{CD}_3)_2\text{CO}$ ] of oxyphyllumchalcone A (1).



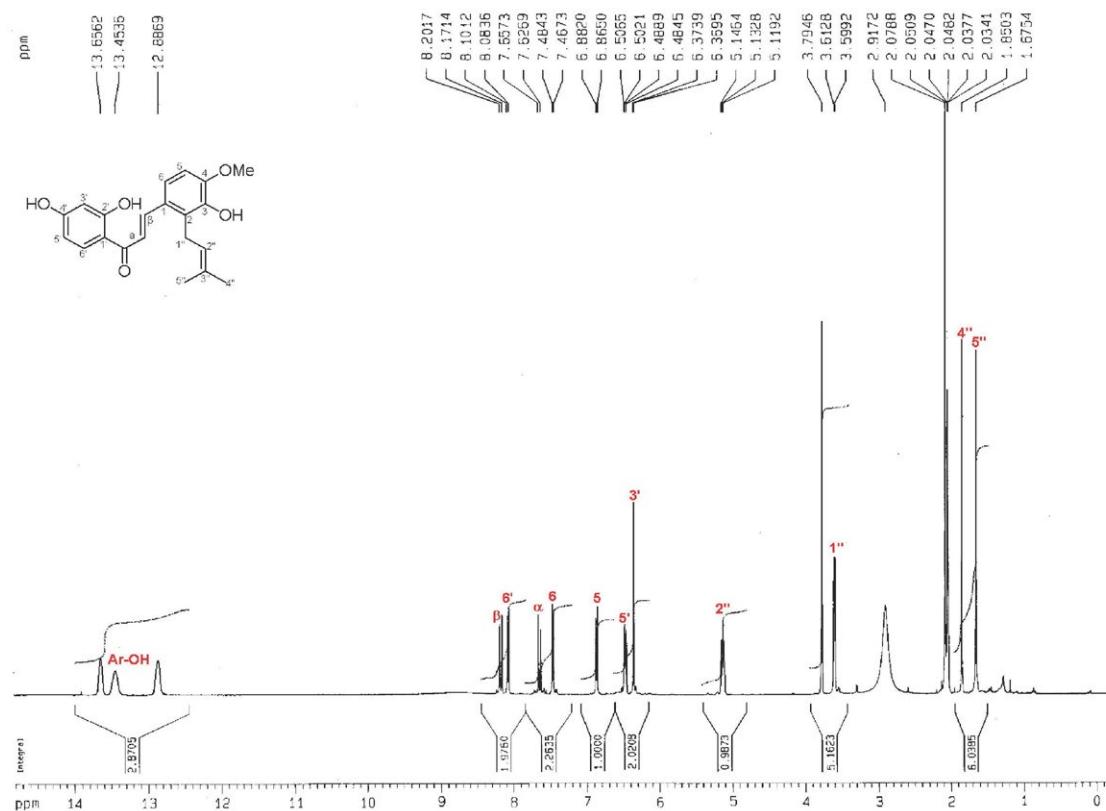
**Figure S6.** ROESY spectrum [500 MHz,  $(CD_3)_2CO$ ] of oxyphyllumchalcone A (**1**).



**Figure S7.** HRESIMS spectrum of oxyphyllumchalcone A (**1**).



**Figure S8.** <sup>13</sup>C NMR and DEPT spectra [125 MHz,  $(CD_3)_2CO$ ] of oxyphyllumchalcone B (**2**).



**Figure S9.** <sup>1</sup>H NMR spectrum [500 MHz,  $(CD_3)_2CO$ ] of oxyphyllumchalcone B (**2**).

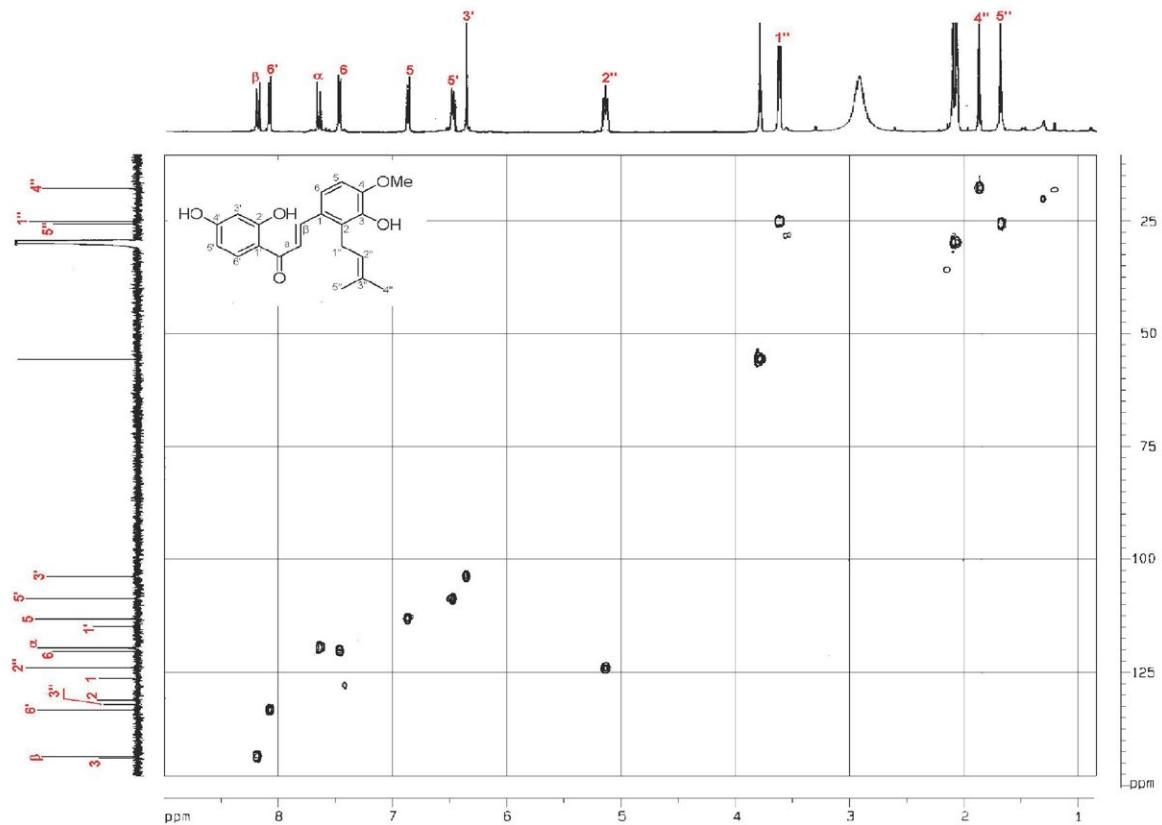


Figure S10. HSQC spectrum [500 MHz, ( $\text{CD}_3$ )<sub>2</sub>CO] of oxyphyllumchalcone B (2).

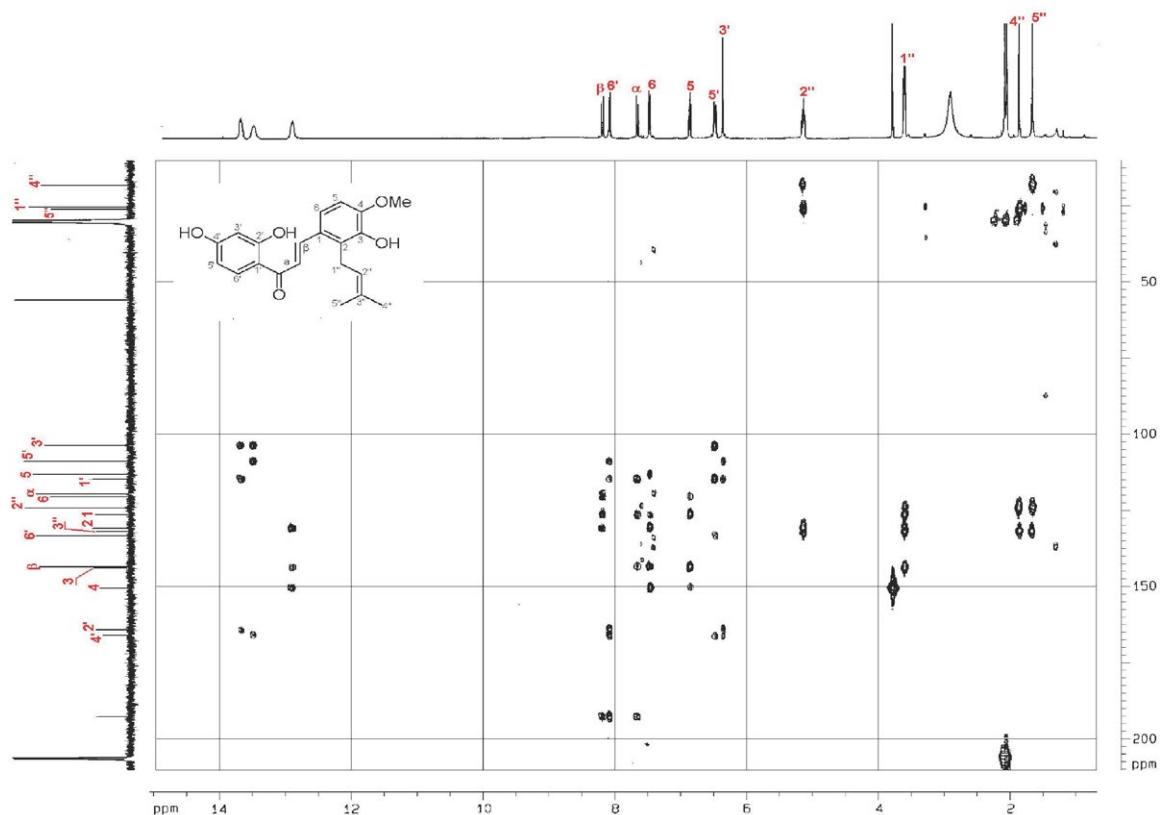
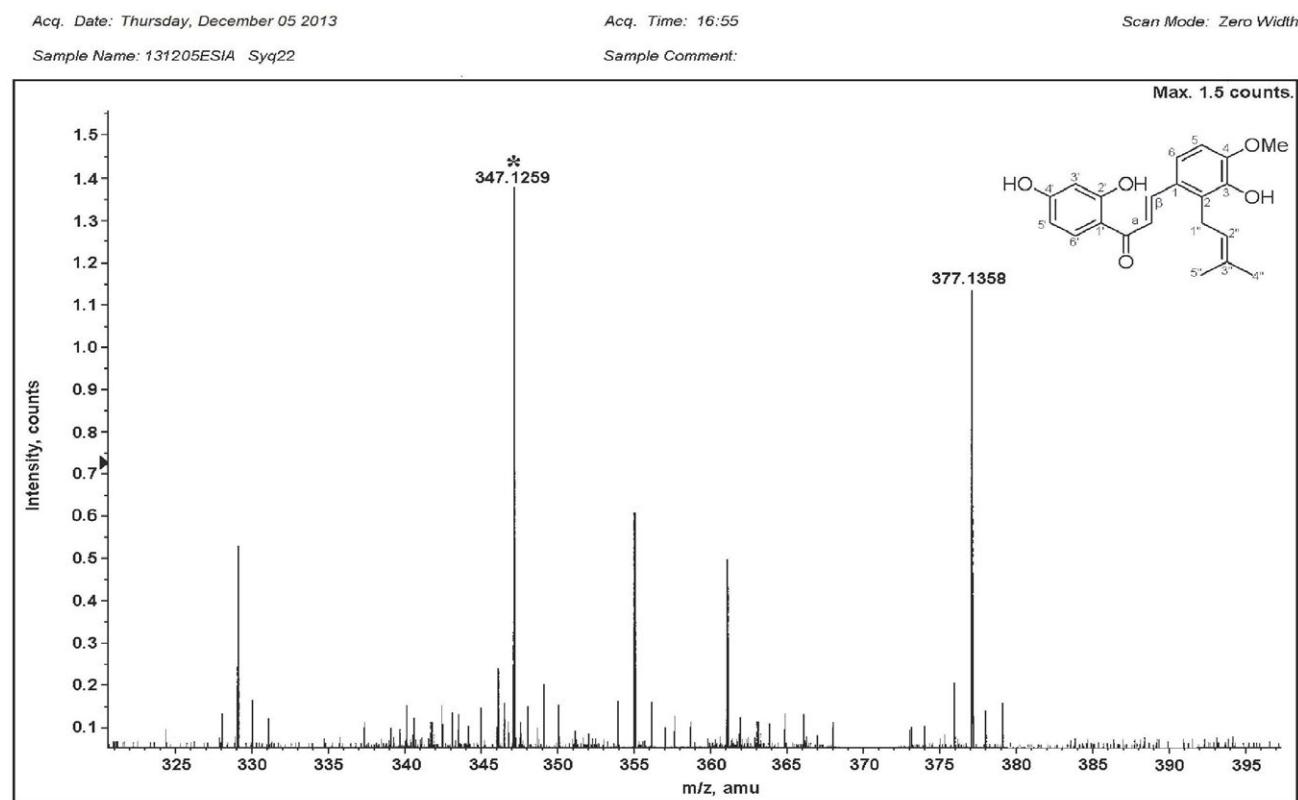
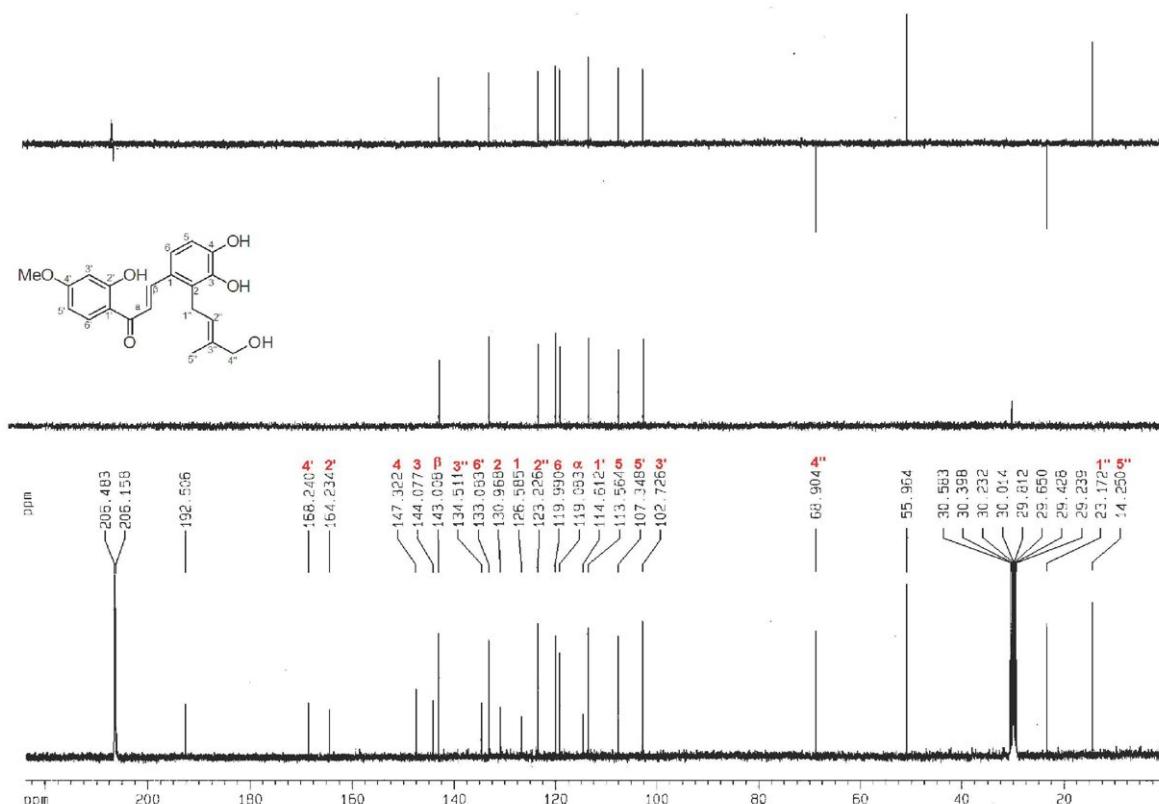
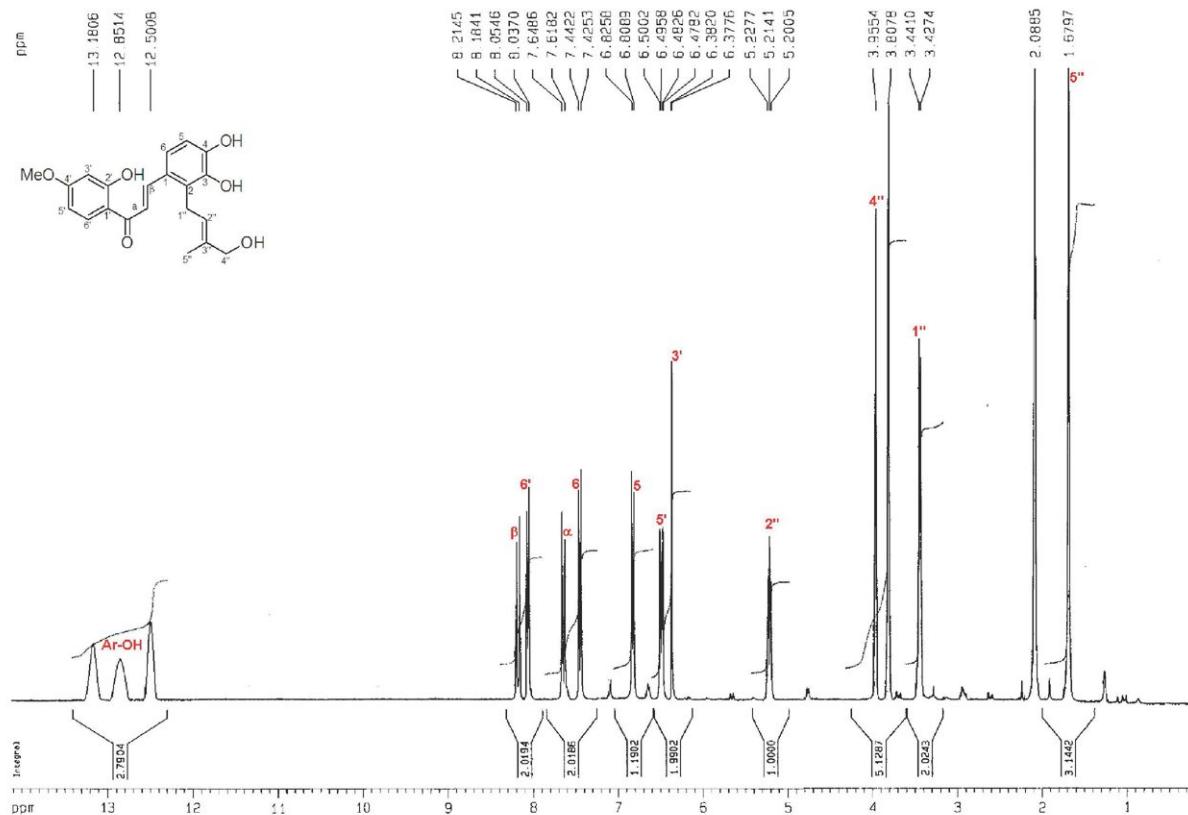
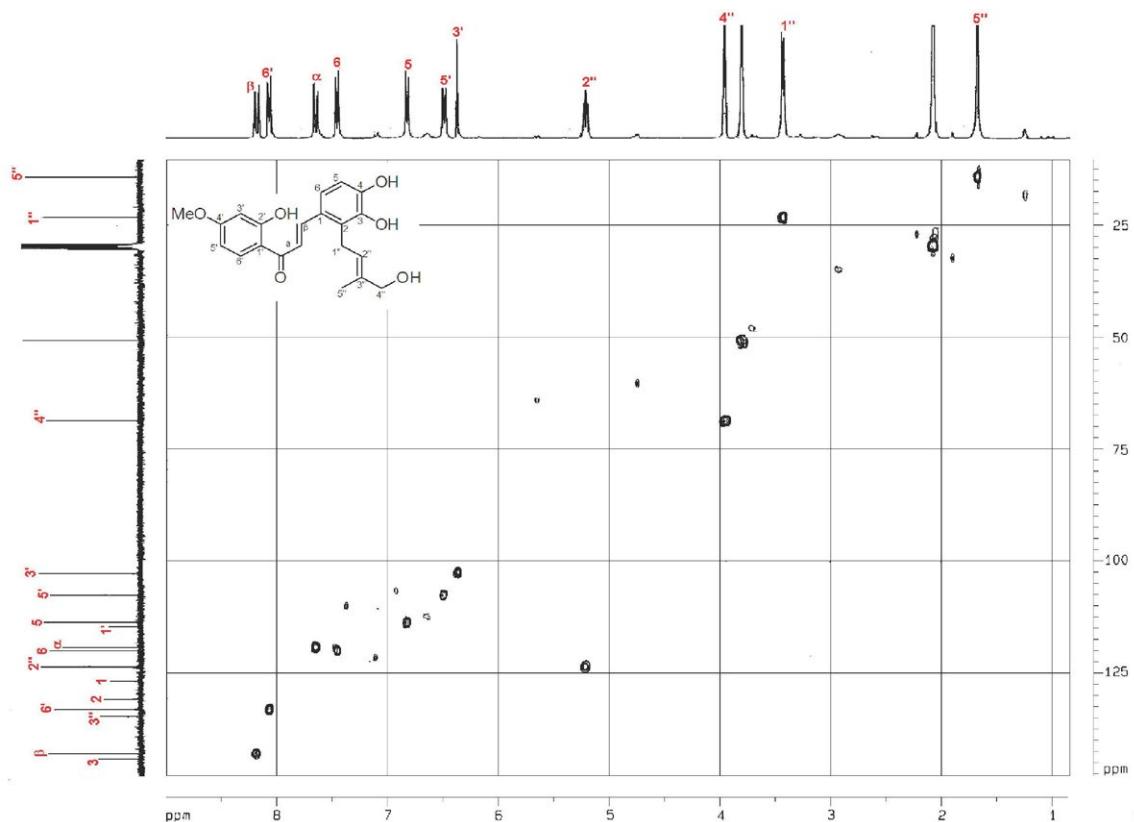


Figure S11. HMBC spectrum [500 MHz, ( $\text{CD}_3$ )<sub>2</sub>CO] of oxyphyllumchalcone B (2).

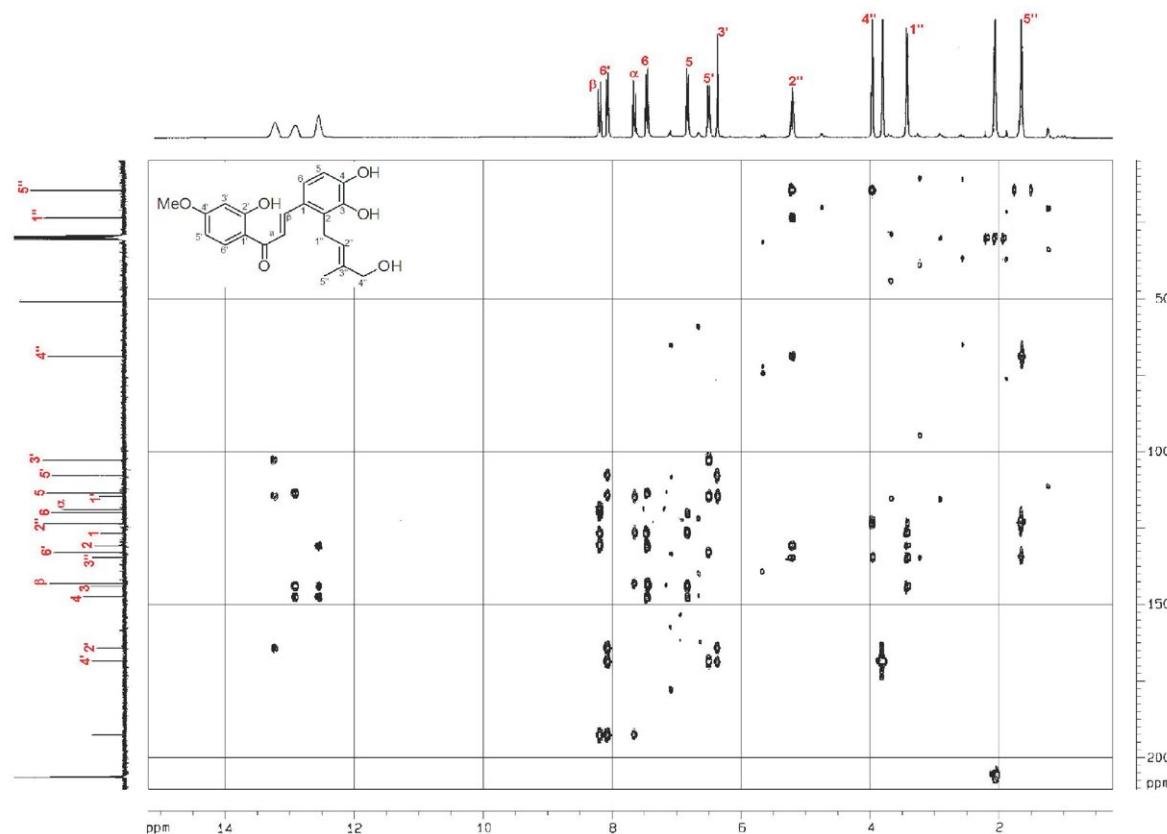
**Figure S12.** HRESIMS spectrum of oxyphyllumchalcone B (**2**).**Figure S13.**  $^{13}\text{C}$  NMR and DEPT spectra [125 MHz,  $(\text{CD}_3)_2\text{CO}$ ] of oxyphyllumchalcone C (**3**).



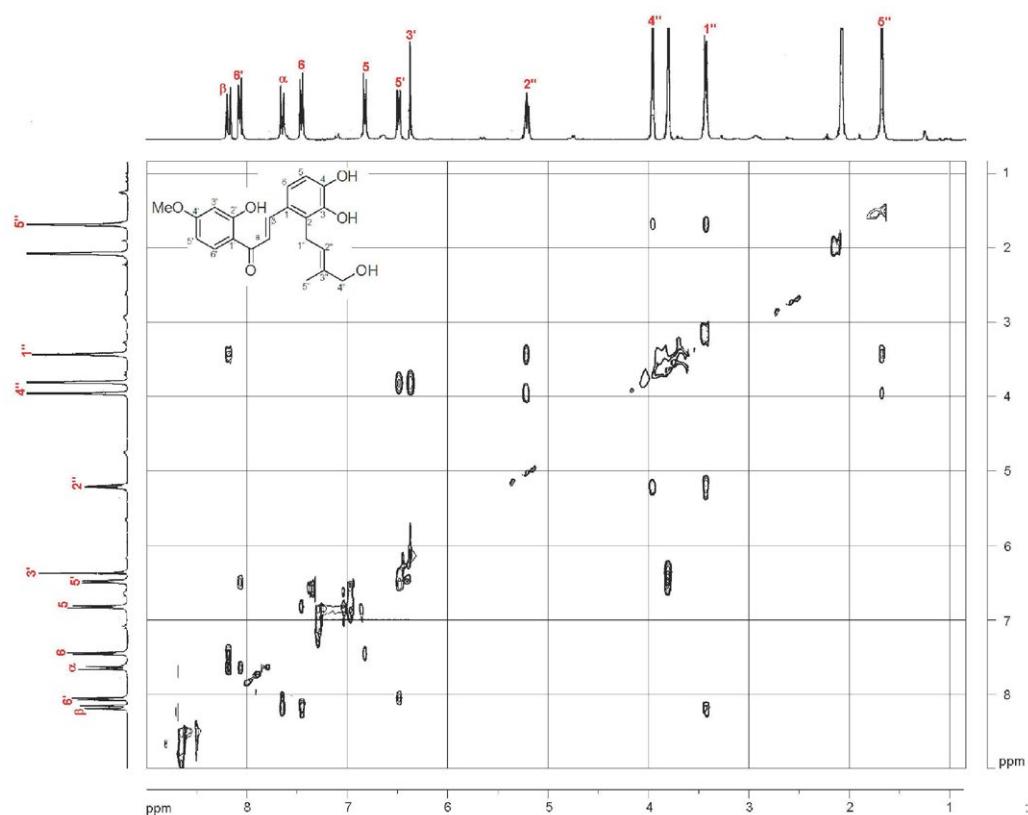
**Figure S14.**  $^1\text{H}$  NMR spectrum [500 MHz,  $(CD_3)_2CO$ ] of oxyphyllumchalcone C (3).



**Figure S15.** HSQC spectrum [500 MHz,  $(CD_3)_2CO$ ] of oxyphyllumchalcone C (3).



**Figure S16.** HMBC spectrum [500 MHz, ( $\text{CD}_3\right)_2\text{CO}$ ] of oxyphyllumchalcone C (3).



**Figure S17.** ROESY spectrum [500 MHz, ( $\text{CD}_3\right)_2\text{CO}$ ] of oxyphyllumchalcone C (3).

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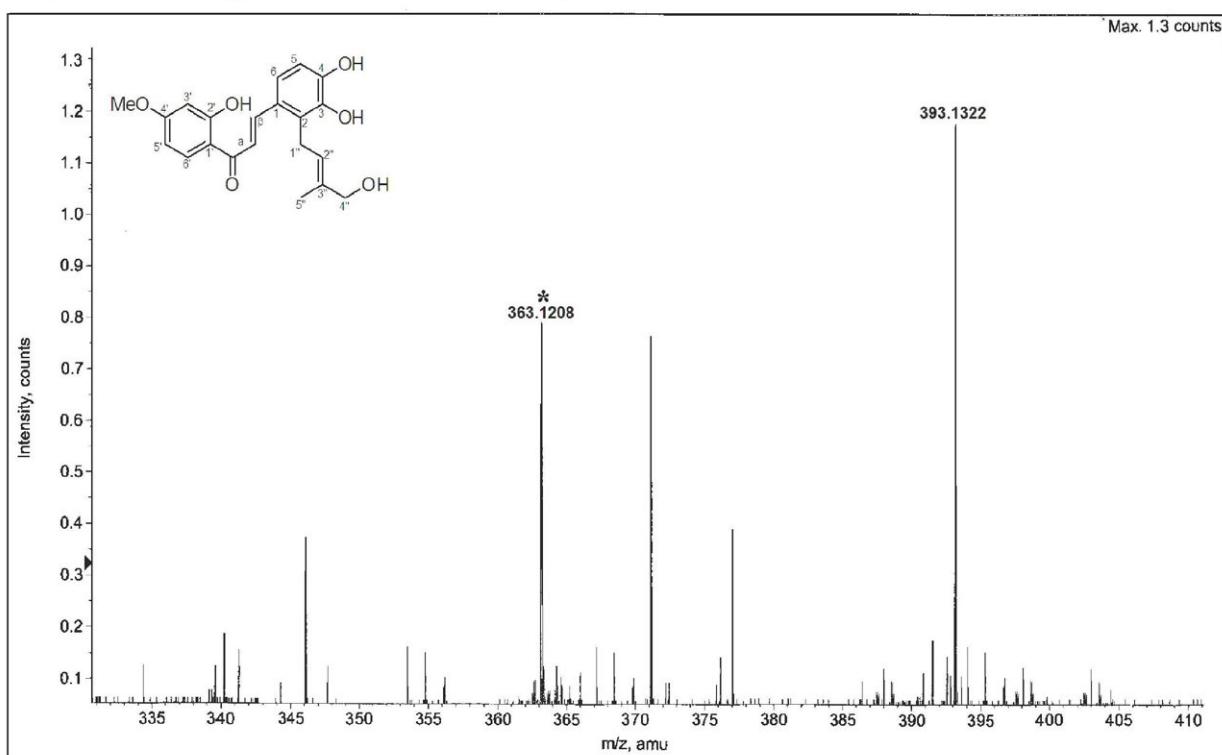


Figure S18. HRESIMS spectrum of oxyphyllumchalcone C (3).