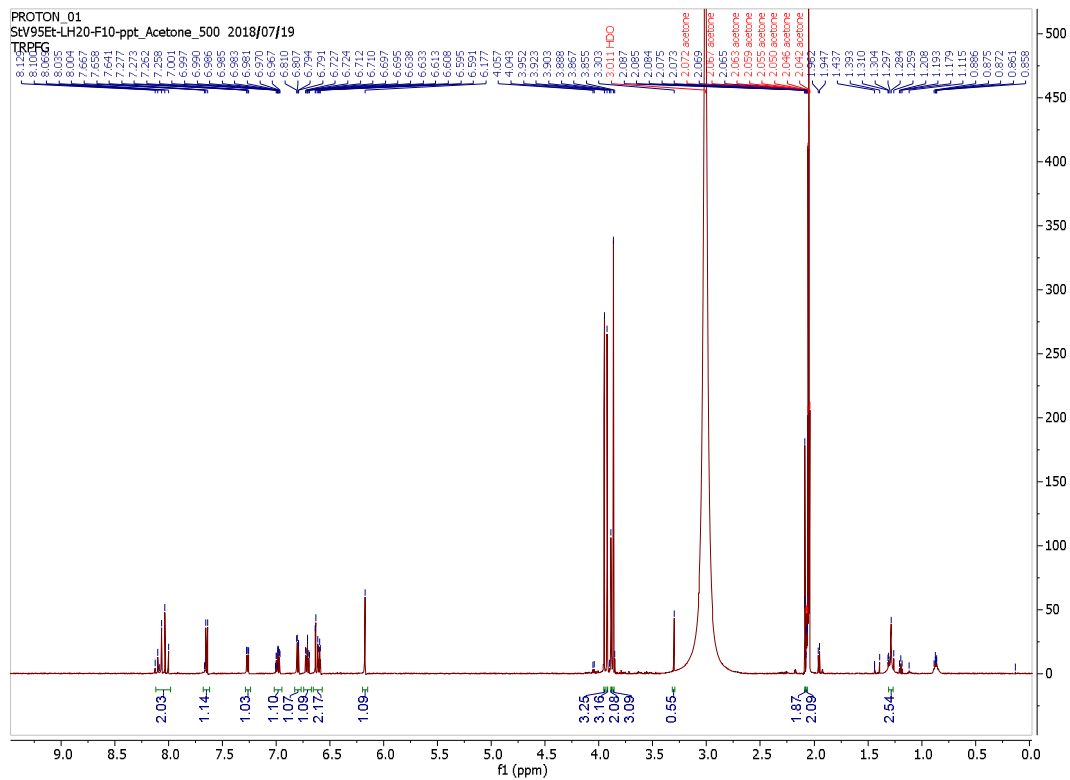


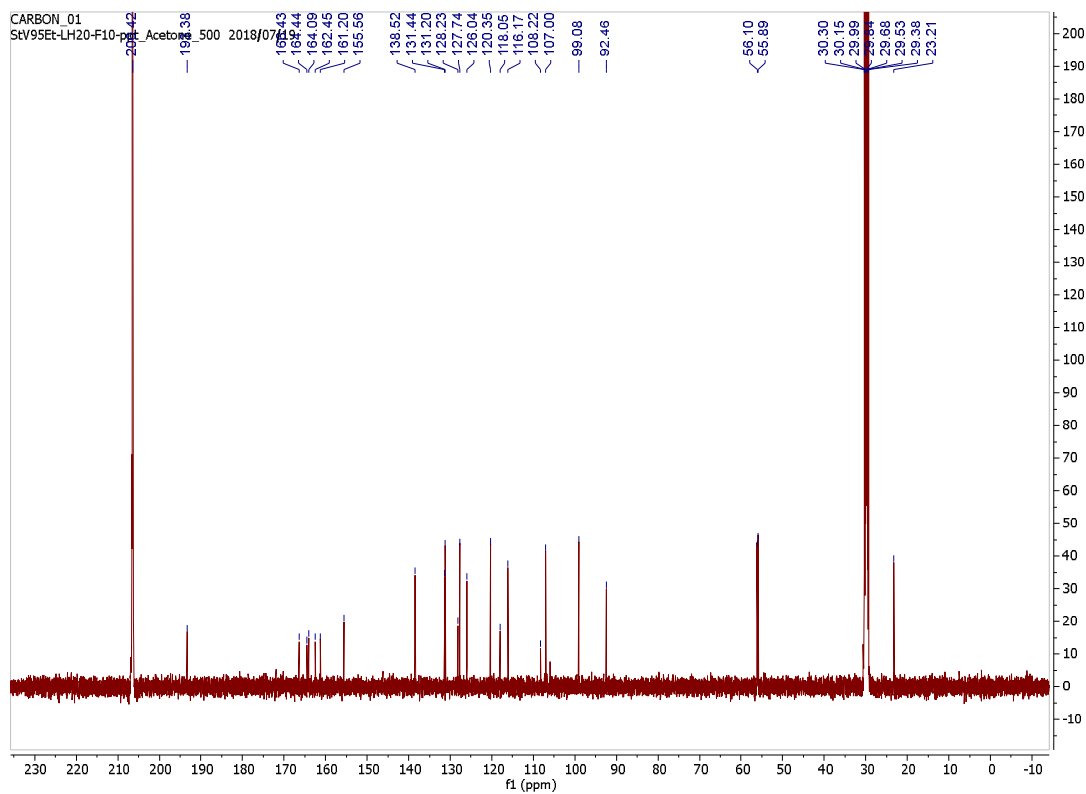
**SUPPLEMENT MATERIAL**

**Bioassay-guided isolation and HPLC quantification of antiproliferative metabolites from *Stahlianthus thorelii***

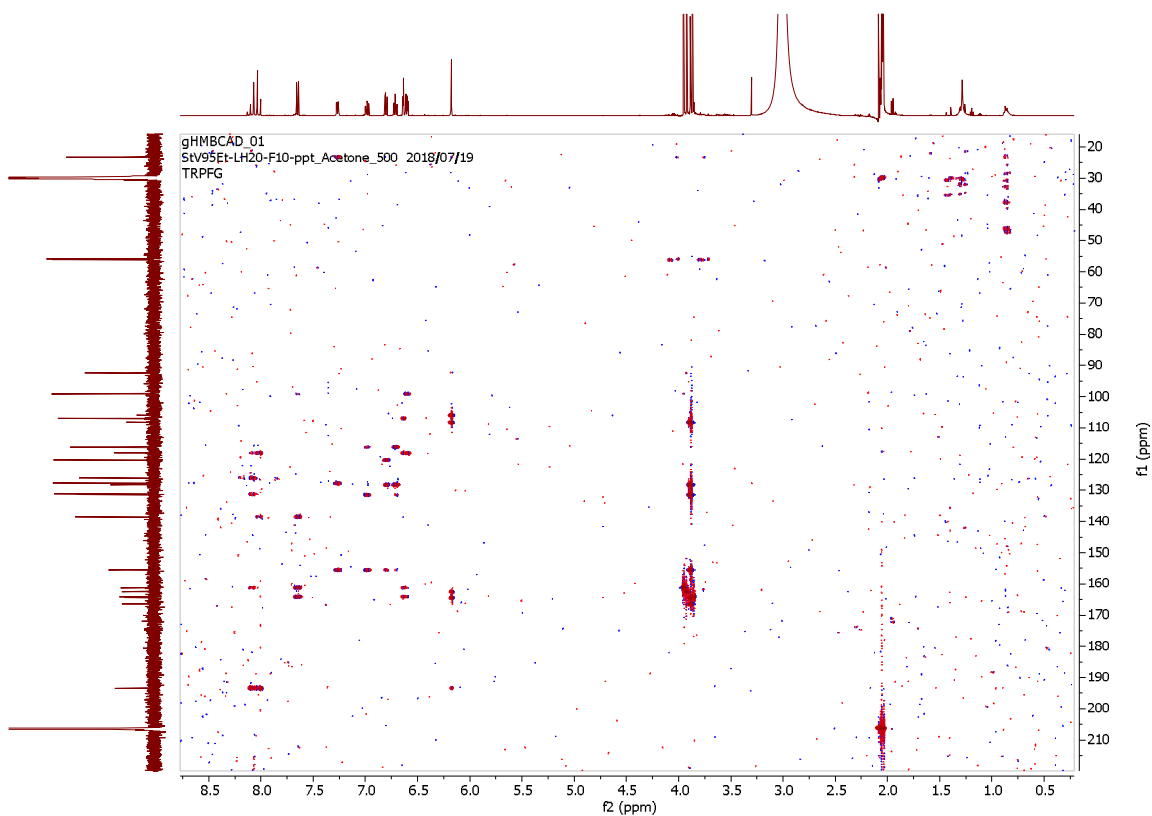
**Nham-Linh Nguyen<sup>a,b</sup>, Hoa Thanh Vo<sup>a,b</sup>, Yu-Chi Lin<sup>b</sup>, Zhi-Hu Lin<sup>b</sup>, Mei-Chuan Chen<sup>a\*</sup>,  
and Yao-Haur Kuo<sup>b,c\*</sup>**

**<sup>1</sup>H NMR and <sup>13</sup>C-NMR spectrums, and HREIMS of *Stahlianthus thorelii*****1. <sup>1</sup>H NMR and <sup>13</sup>C-NMR spectrums, and HREIMS of (E)-1-(3',5'-dihydroxy-4'-(2''-hydroxybenzyl)-2''-methoxyphenyl)-3-(2,4-dimethoxyphenyl) prop-2-en-1-one (1)**

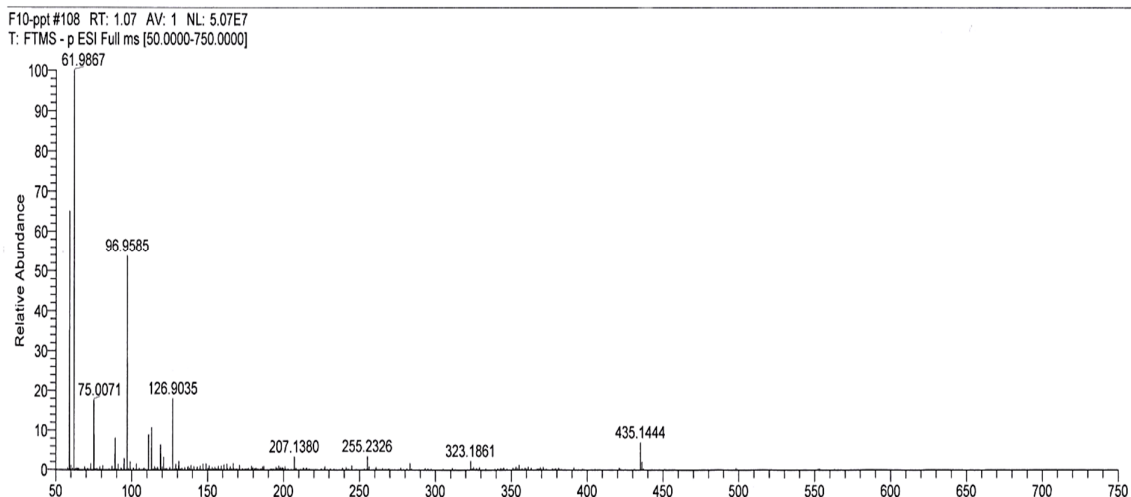
**Figure S1.** <sup>1</sup>H NMR spectrum of ((E)-1-(3',5'-dihydroxy-4'-(2''-hydroxybenzyl)-2''-methoxyphenyl)-3-(2,4-dimethoxyphenyl) prop-2-en-1-one) (**1**) measured in 500 MHz in acetone



**Figure S2.**  $^{13}\text{C}$  NMR spectrum of ((E)-1-(3',5'-dihydroxy-4'-(2''- hydroxybenzyl) -2'-methoxyphenyl) -3- (2,4-dimethoxyphenyl) prop-2-en-1-one) (**1**) measured in 500 MHz in acetone

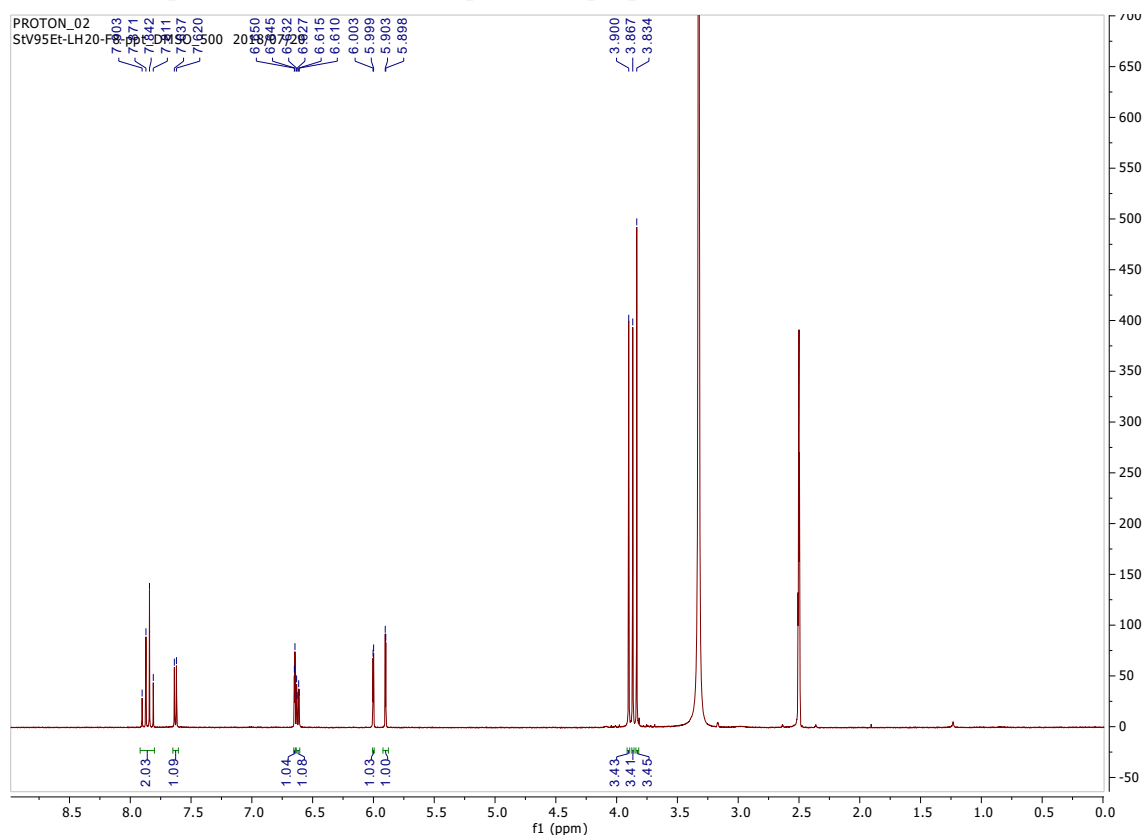


**Figure S3.** HMBC spectrum of ((E)-1-(3',5'-dihydroxy-4'-(2''- hydroxybenzyl) -2'- methoxyphenyl) -3- (2,4-dimethoxyphenyl) prop-2-en-1-one) (**1**) measured in 500 MHz in acetone

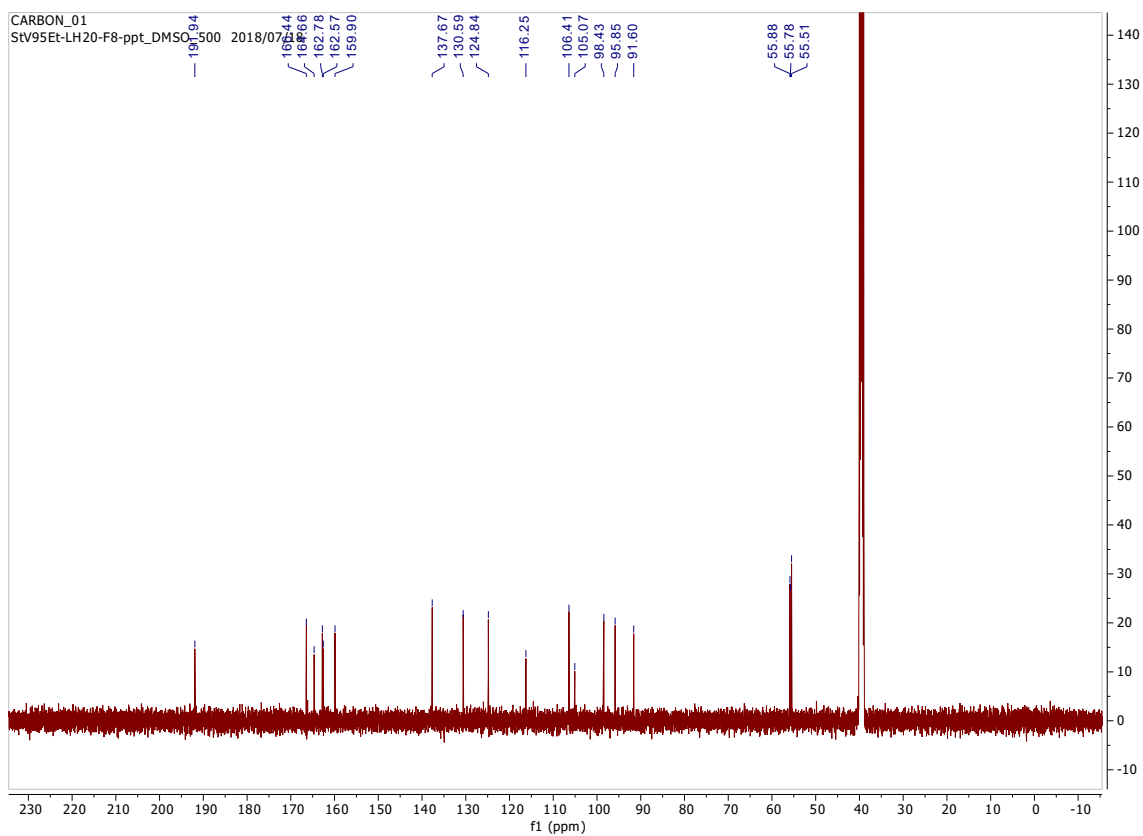


**Figure S4.** The HREIMS of (E)-1-(3',5'-dihydroxy-4'-(2''- hydroxybenzyl) -2''- methoxyphenyl) -3-(2,4-dimethoxyphenyl) prop-2-en-1-one (**1**),  $M=436$ ,  $[M - H]^-$

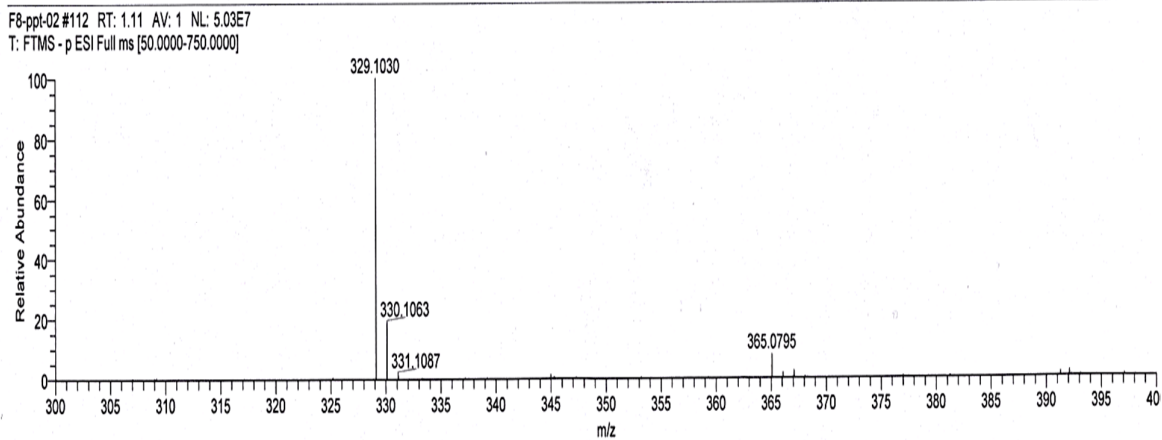
**2.  $^1\text{H}$  NMR and  $^{13}\text{C}$ -NMR spectrums, and HREIMS of (2E)-1-(2,4-Dihydroxy-6-methoxyphenyl)-3-(2,4-dimethoxyphenyl)-2-propen-1-one (**2**)**



**Figure S5.**  $^1\text{H}$  NMR spectrum of (2E)-1-(2,4-Dihydroxy-6-methoxyphenyl)-3-(2,4-dimethoxyphenyl)-2-propen-1-one (**2**) measured in 500 MHz in DMSO

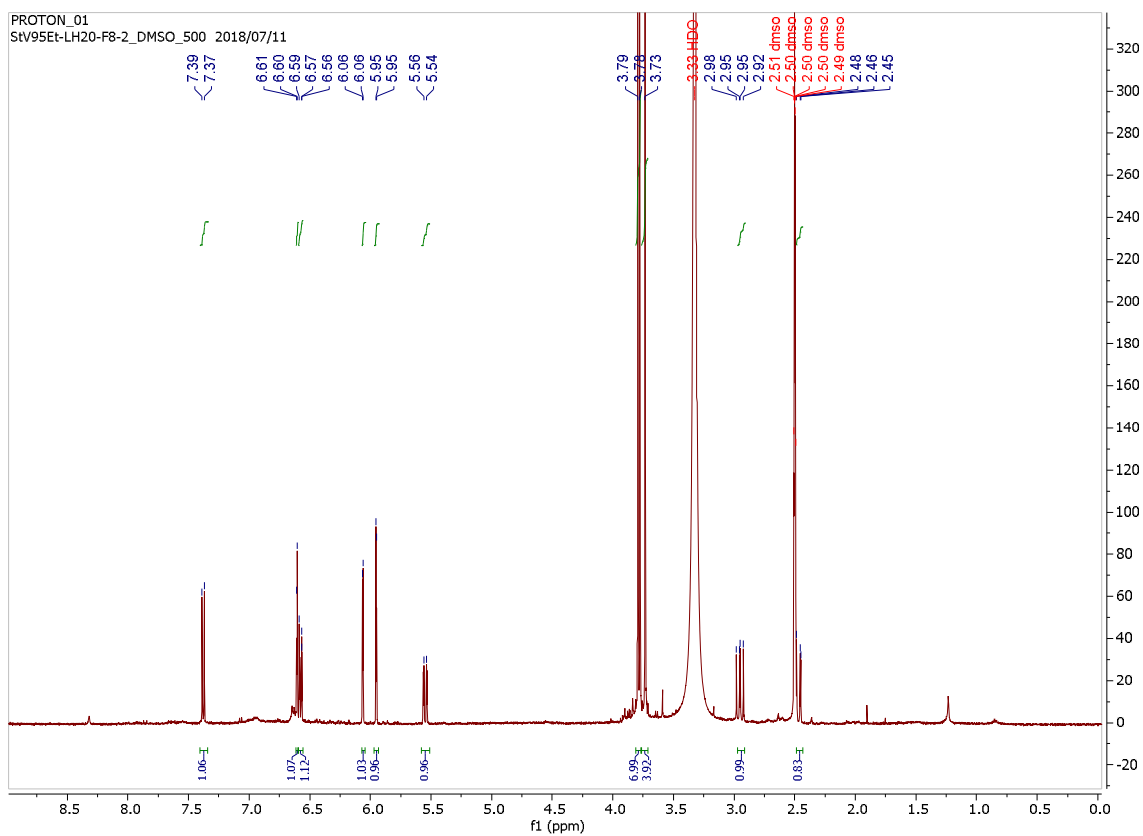


**Figure S6.**  $^{13}\text{C}$  NMR spectrum of (2E)-1-(2,4-Dihydroxy-6-methoxyphenyl)-3-(2,4-dimethoxyphenyl)-2-propen-1-one (**2**) measured in 500 MHz in DMSO

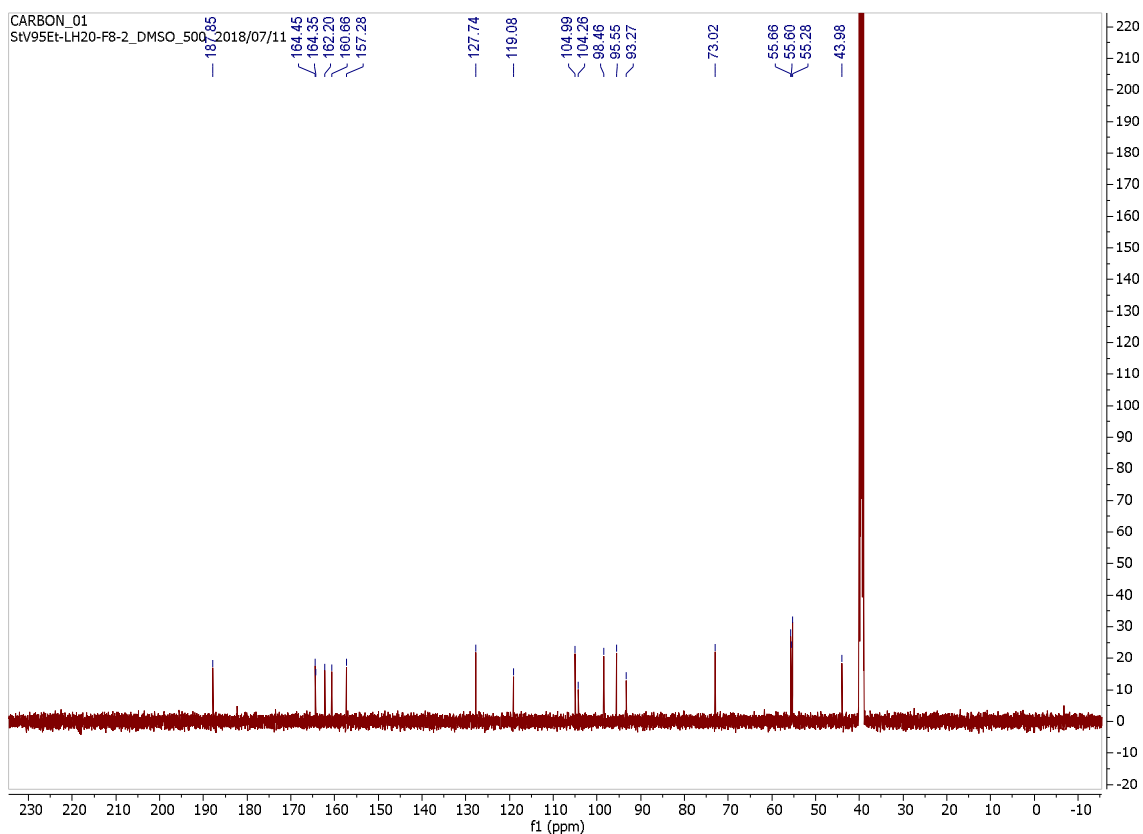


**Figure S7.** The HREIMS of (2E)-1-(2,4-Dihydroxy-6-methoxyphenyl)-3-(2,4-dimethoxyphenyl)-2-propen-1-one (**2**),  $M = 330$ ,  $[\text{M} - \text{H}]^-$

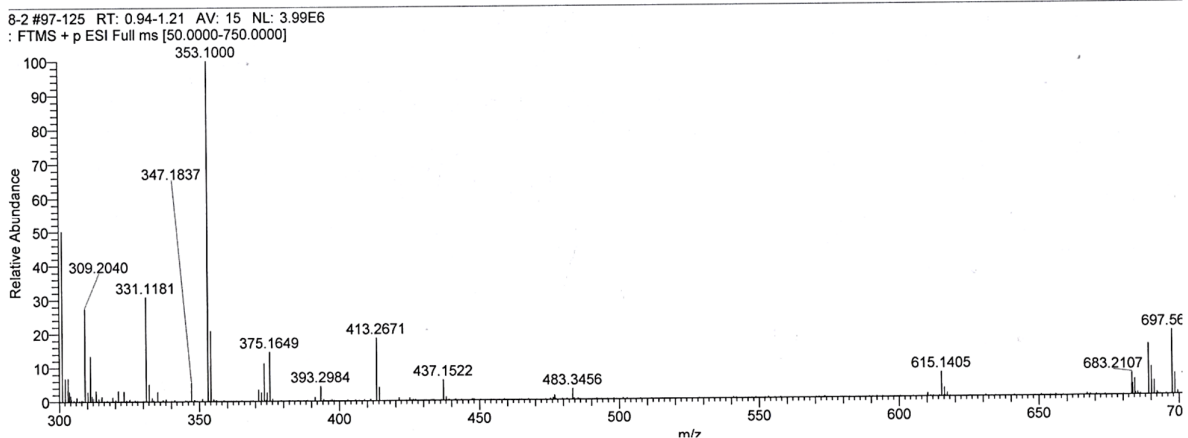
3.  $^1\text{H}$  NMR and  $^{13}\text{C}$ -NMR spectrums, and HREIMS of 7-hydroxyethoxy-3',4',5-trimethoxy flavone (**3**)



**Figure S8.**  $^1\text{H}$  NMR spectrum of 7-hydroxyethoxy-3',4',5-trimethoxy flavone (**3**) measured in 500 MHz in DMSO

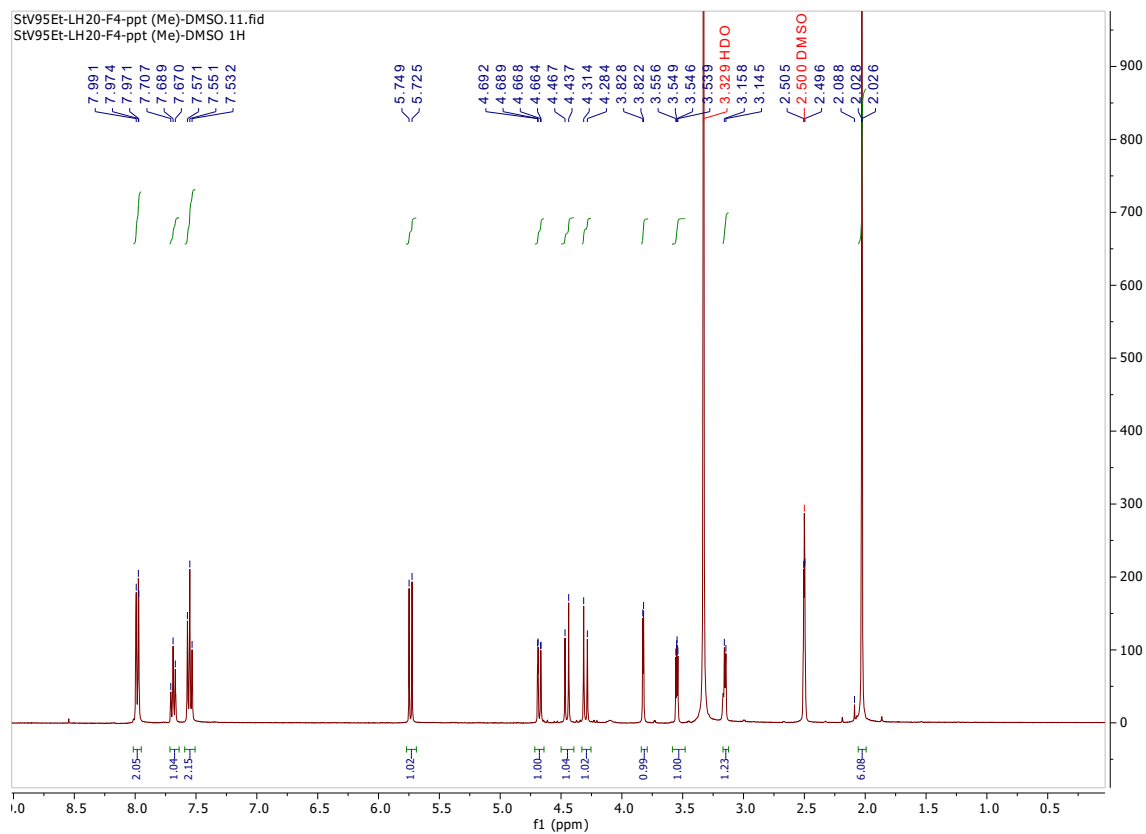


**Figure S9.**  $^{13}\text{C}$  NMR spectrum of 7-hydroxyethoxy-3',4',5-trimethoxy flavone (**3**) measured in 500 MHz in DMSO

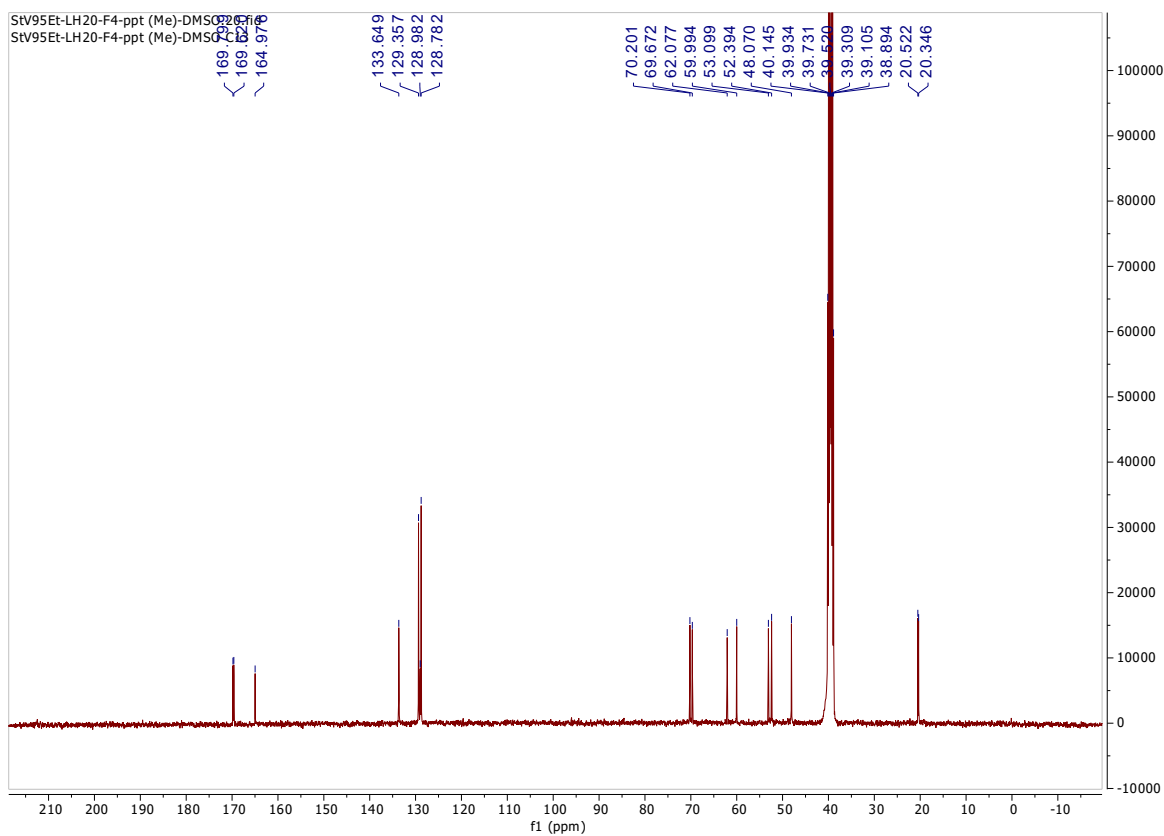


**Figure S10.** The HREIMS of 7-hydroxyethoxy-3',4',5-trimethoxy flavone (**3**),  $M=330$ ,  $[M + Na]^+$

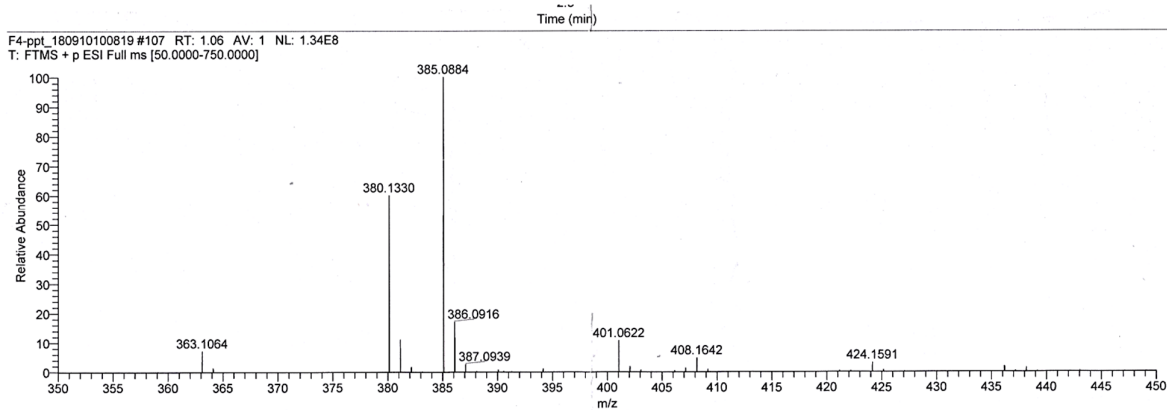
#### 4. $^1H$ NMR and $^{13}C$ -NMR spectrums, and HREIMS of (+)-crotepoide (**4**)



**Figure S11.**  $^1H$  NMR spectrum of (+)-crotepoide (**4**) measured in 500 MHz in DMSO



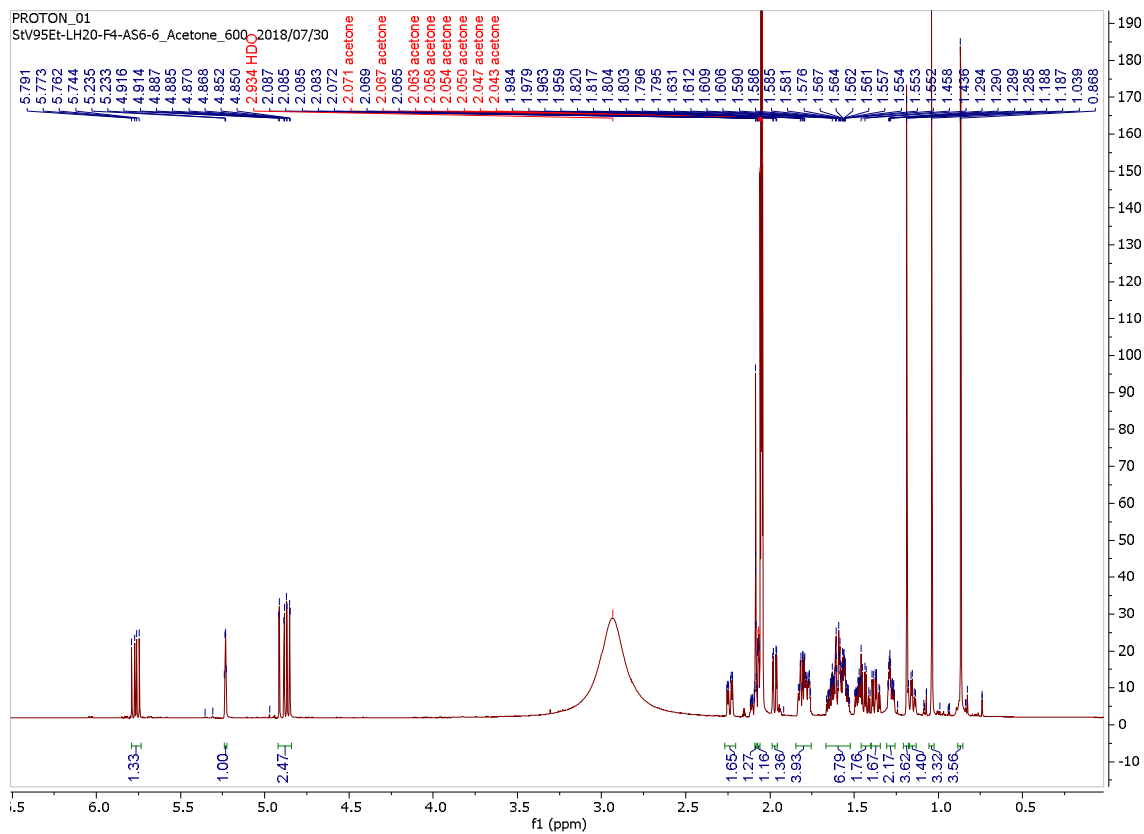
**Figure S12.**  $^{13}\text{C}$  NMR spectrum of (+)-crotopoxide (**4**) measured in 500 MHz in DMSO



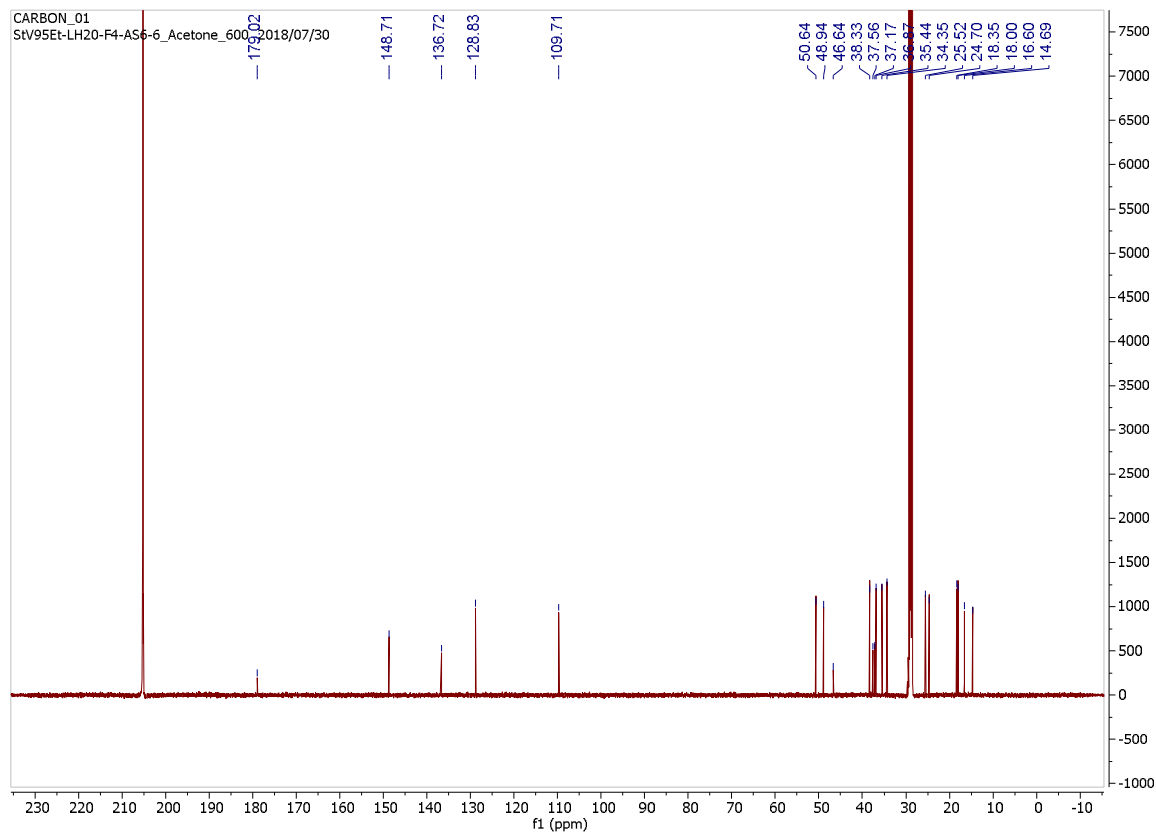
**Figure S13.** The HREIMS of (+)-crotopoxide (**4**),  $M=362$ ,  $[M + \text{Na}]^+$

**5.  $^1\text{H}$  NMR and  $^{13}\text{C}$ -NMR spectrums, and HREIMS of sandaracopimaric acid (**5**)**

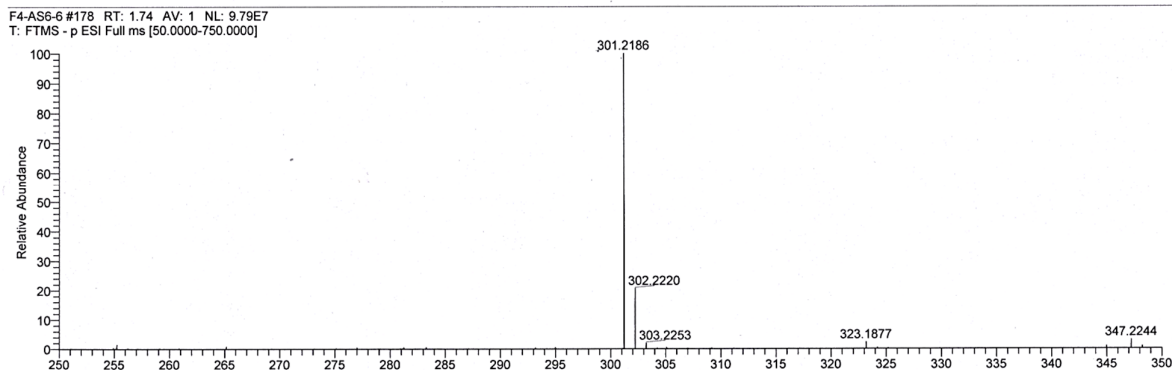




**Figure S14.**  $^1\text{H}$  NMR spectrum of sandaracopimaric acid (**5**) measured in 500 MHz in acetone

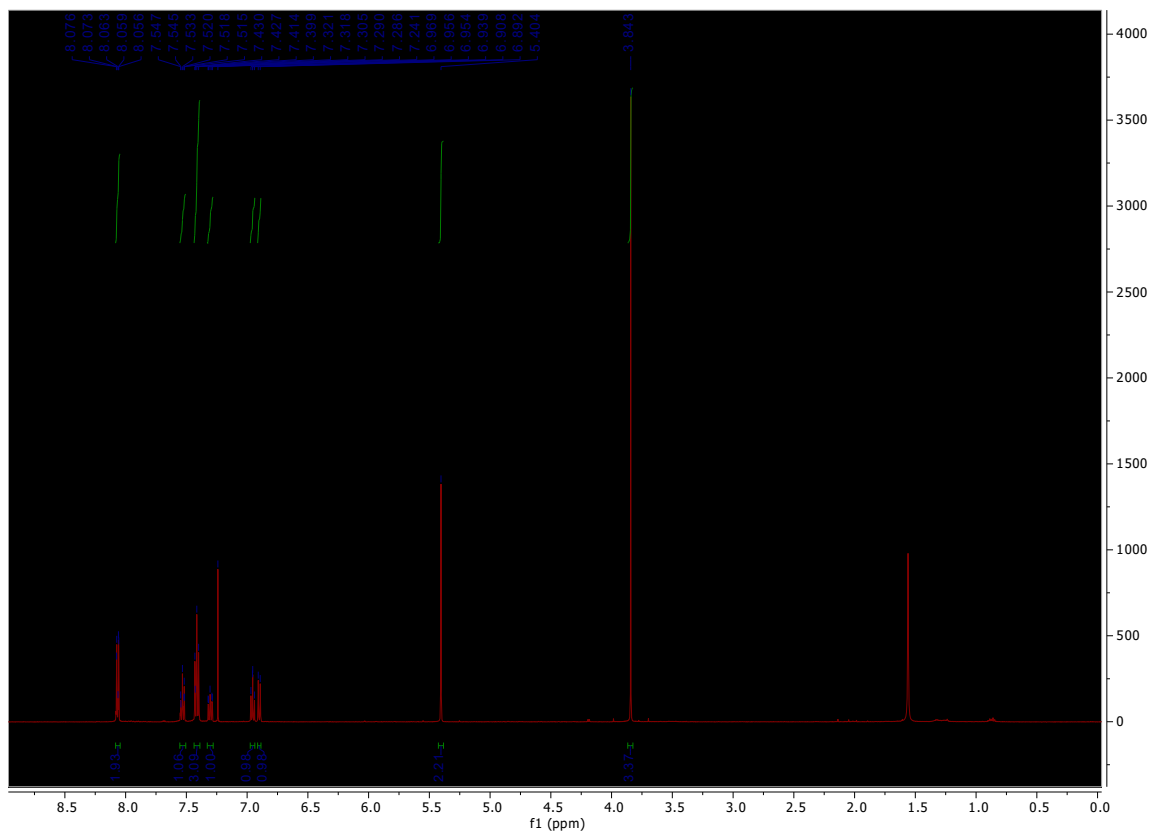


**Figure S15.**  $^{13}\text{C}$  NMR spectrum of sandaracopimaric acid (**5**) measured in 500 MHz in acetone

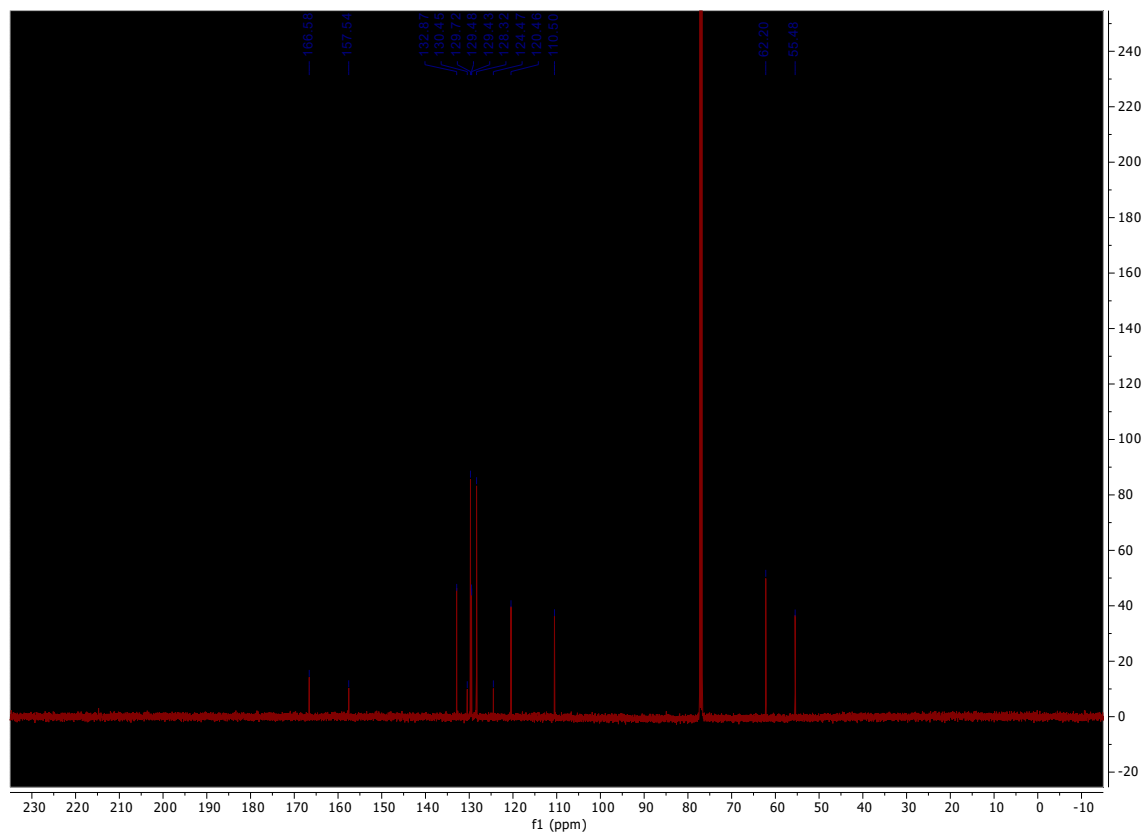


**Figure S16.** The HREIMS of sandaracopimaric acid (**5**),  $M=302$ ,  $[M - H]^-$

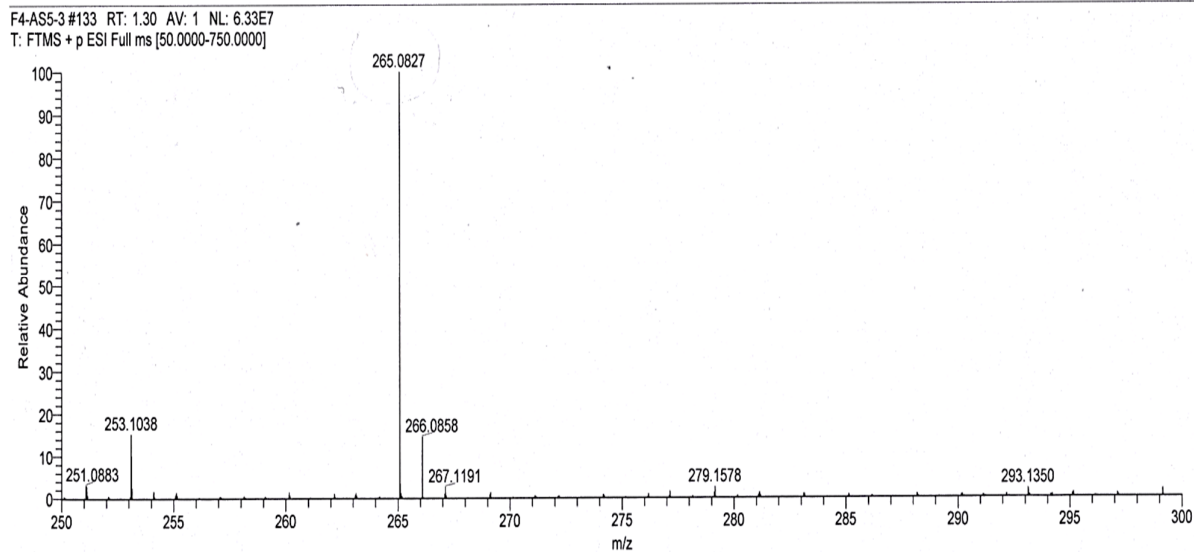
**6.  $^1\text{H}$  NMR and  $^{13}\text{C}$ -NMR spectrums, and HREIMS of *o*-methoxybenzoyl benzoate (**6**)**



**Figure S17.**  $^1\text{H}$  NMR spectrum of *o*-methoxybenzoyl benzoate (**6**) measured in 500 MHz in  $\text{CDCl}_3$

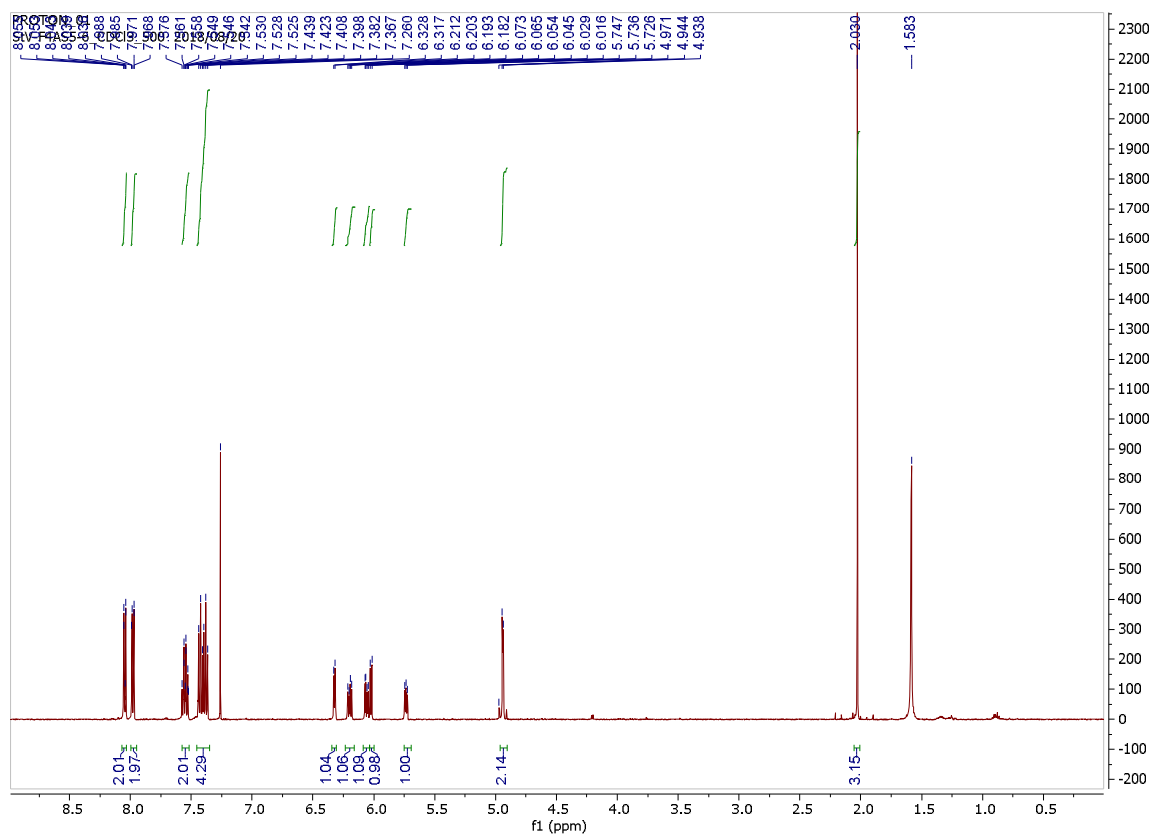


**Figure S18.**  $^{13}\text{C}$  NMR spectrum of o-methoxybenzoyl benzoate (6) measured in 500 MHz in  $\text{CDCl}_3$

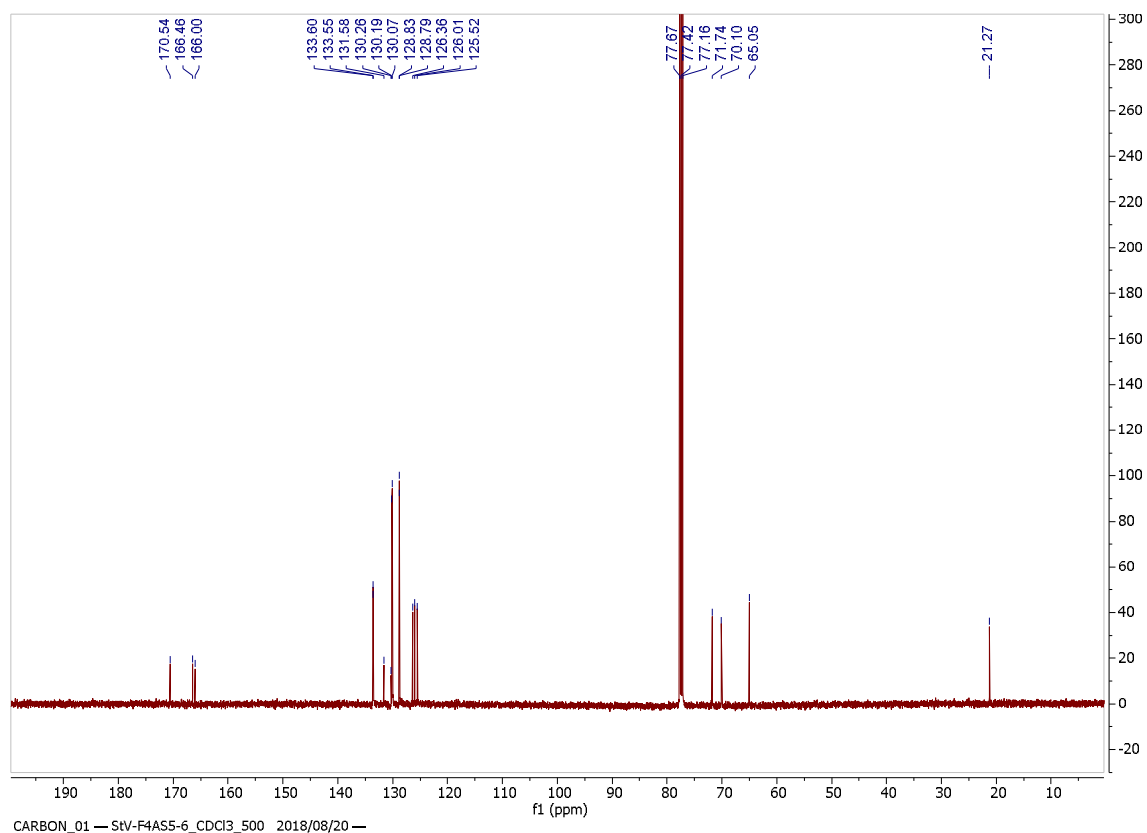


**Figure S19.** The HREIMS of o-methoxybenzoyl benzoate (6),  $M = 242$   $[\text{M} + \text{Na}]^+$

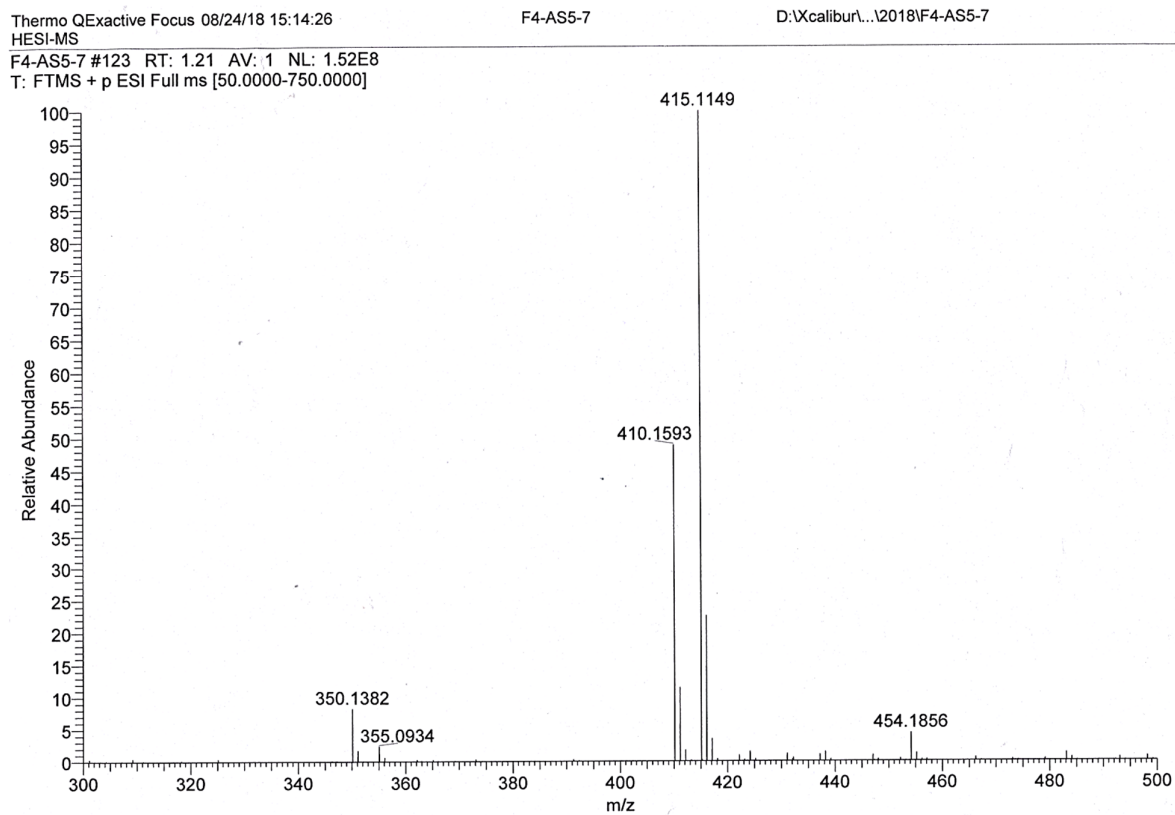
**7.  $^1\text{H}$  NMR and  $^{13}\text{C}$ -NMR spectrums, and HREIMS of (-)-1,6-desoxytinganoxide (7)**



**Figure S20.**  $^1\text{H}$  NMR spectrum of (-)-1,6-desoxytinganoxide (**7**) measured in 500 MHz in  $\text{CDCl}_3$



**Figure S21.**  $^{13}\text{C}$  NMR spectrum of (-)-1,6-desoxytingtanoxide (**7**) measured in 500 MHz in  $\text{CDCl}_3$



**Figure S22.** The HREIMS of (-)-1,6-desoxytingtanoxide (**7**),  $M = 392$ ,  $[\text{M} + \text{Na}]^+$