

# VB<sub>1</sub> Promoted Green Synthesis of Chalcone and its Neuroprotection

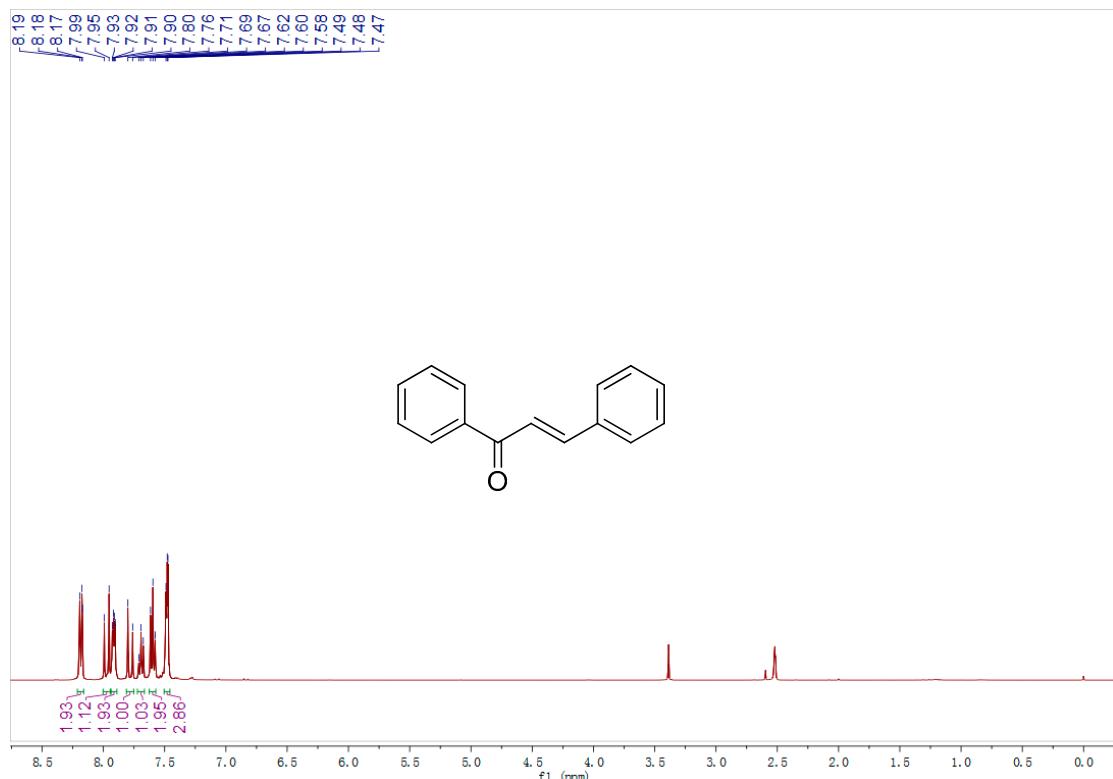
## Potency Evaluation

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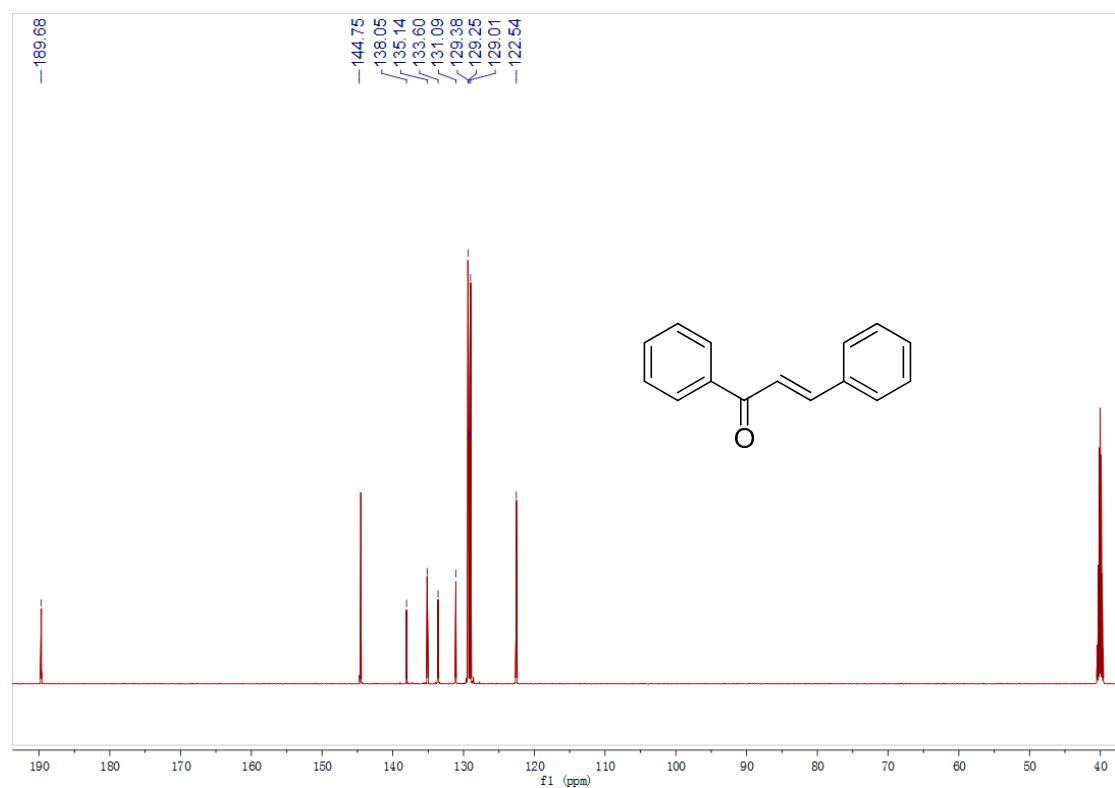
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### Characterization of Compounds 3a–t

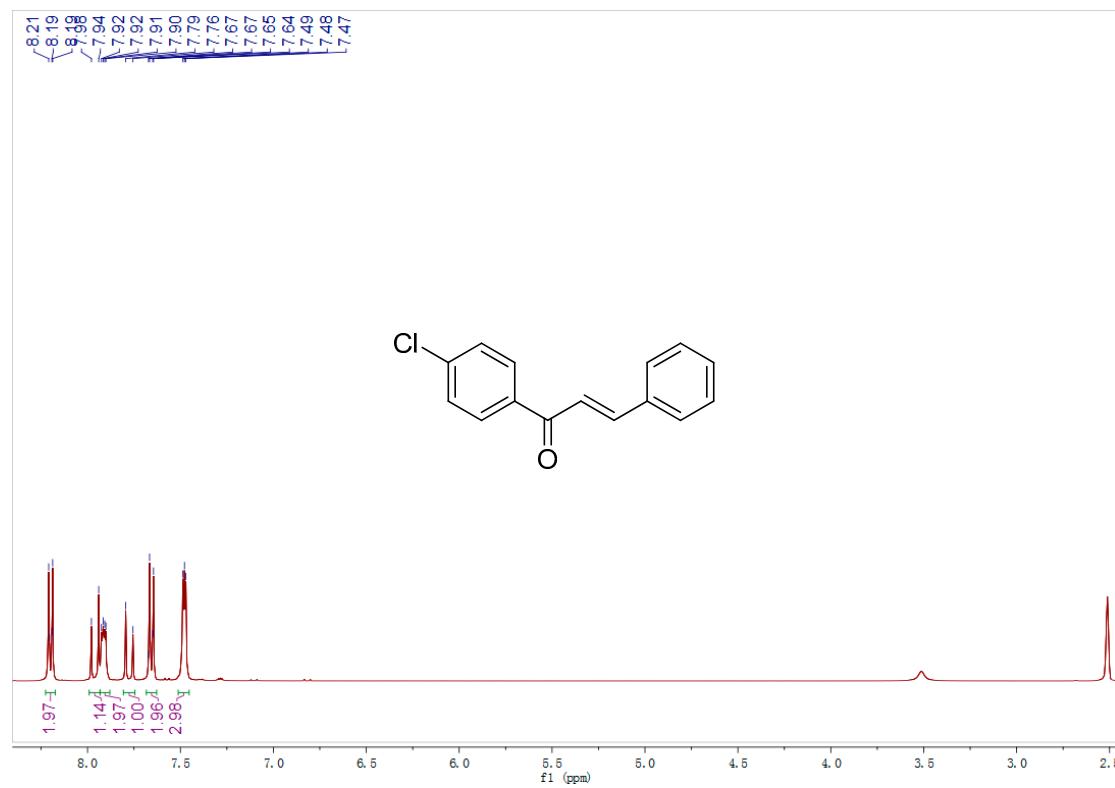
**Figure S1.** <sup>1</sup>H NMR (400 MHz, DMSO-*d*<sub>6</sub>) spectrum of 3a.



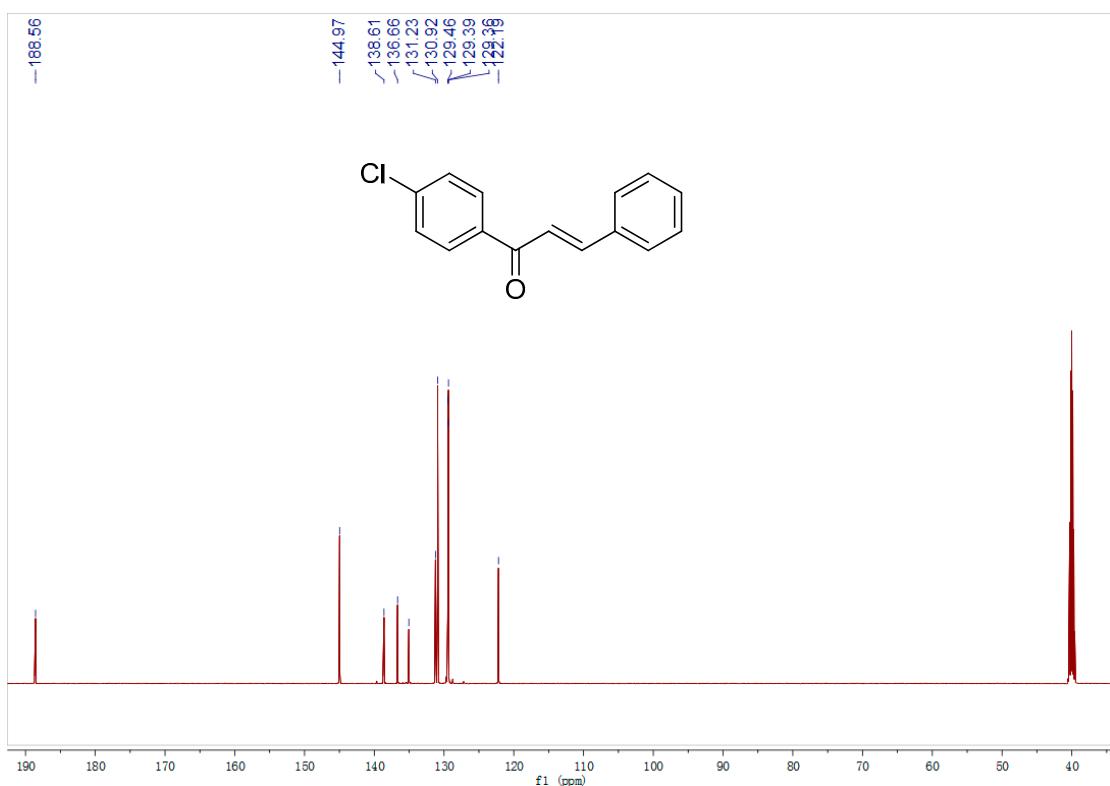
**Figure S2.**  $^{13}\text{C}$  NMR (150 MHz,  $\text{DMSO}-d_6$ ) spectrum of **3a**.



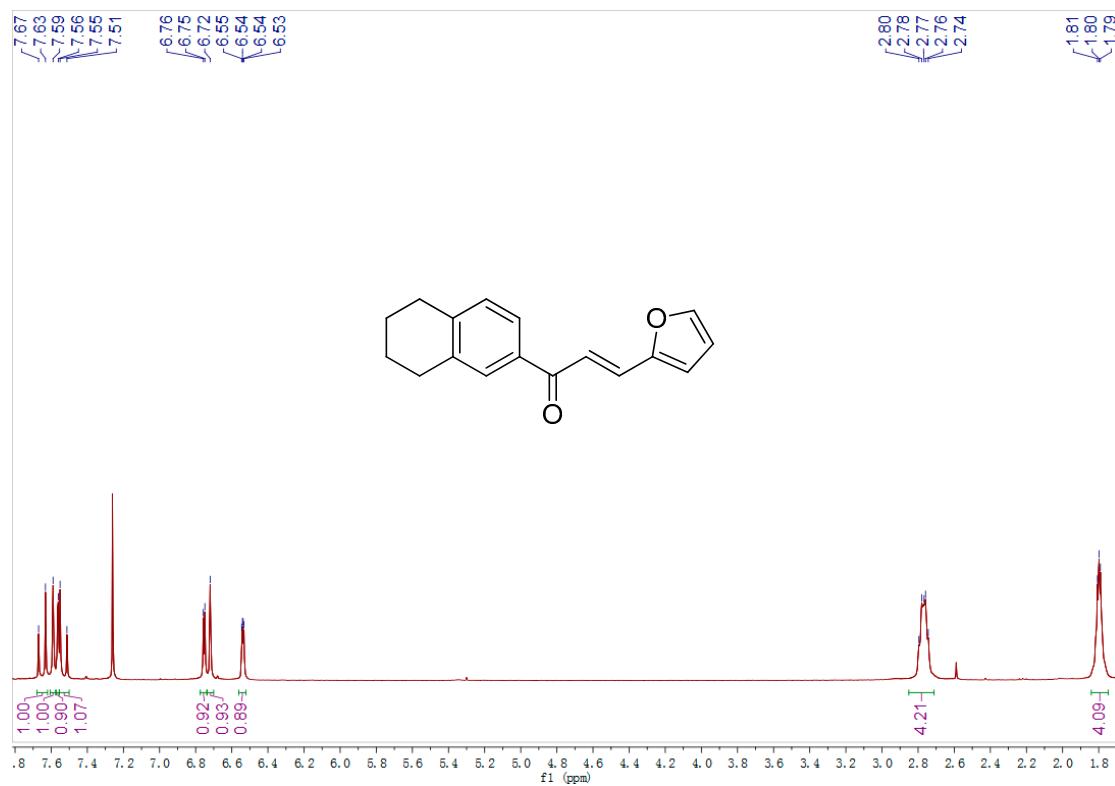
**Figure S3.**  $^1\text{H}$  NMR (400 MHz,  $\text{DMSO}-d_6$ ) spectrum of **3b**.



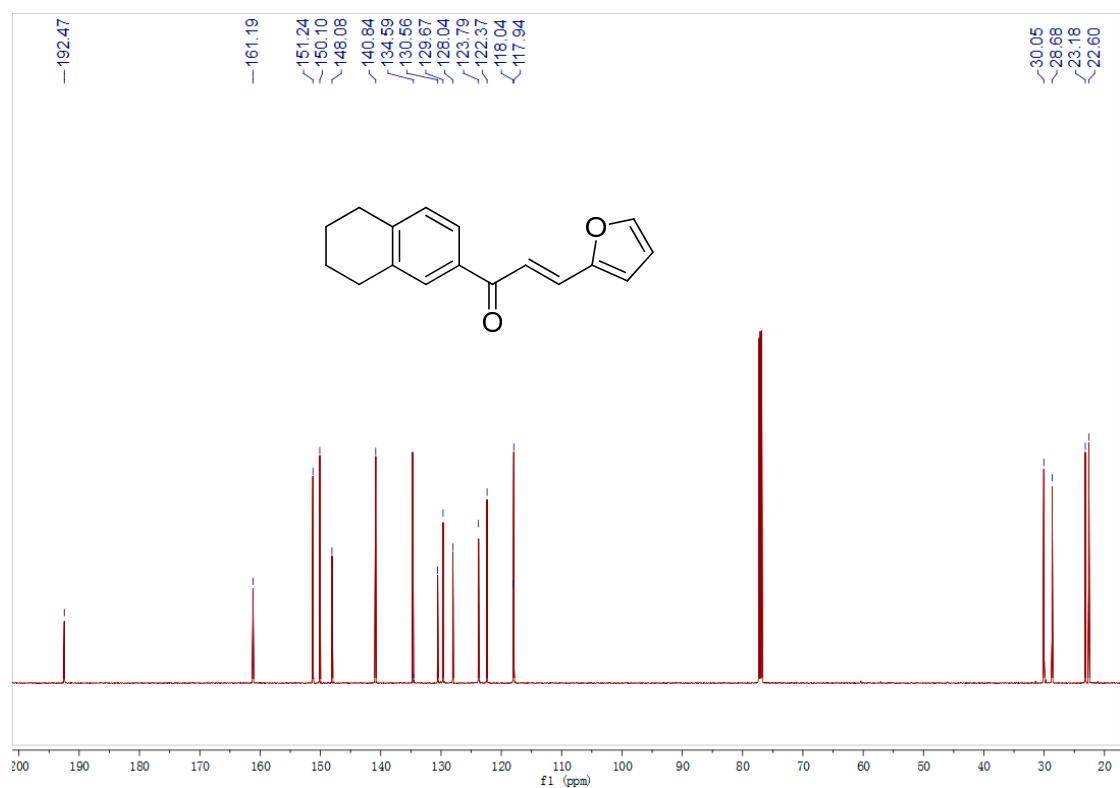
**Figure S4.**  $^{13}\text{C}$  NMR (150 MHz,  $\text{DMSO}-d_6$ ) spectrum of **3b**.



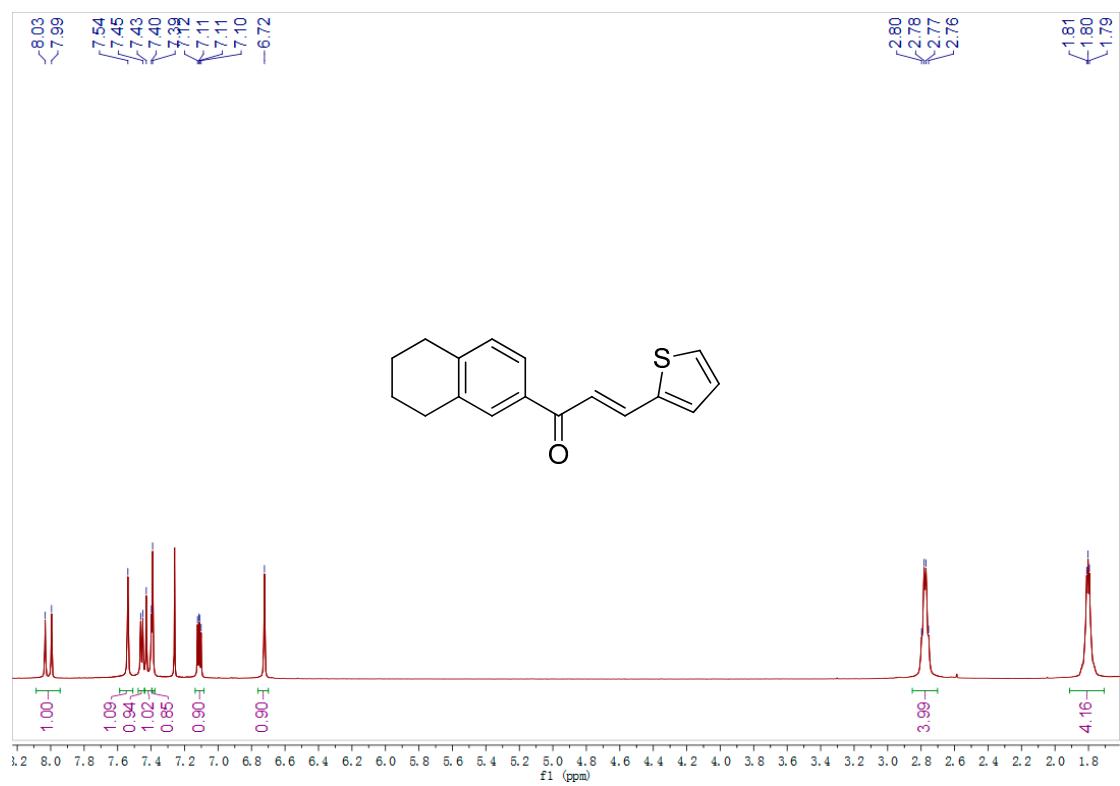
**Figure S5.**  $^1\text{H}$  NMR (400 MHz,  $\text{CDCl}_3$ ) spectrum of **3c**.



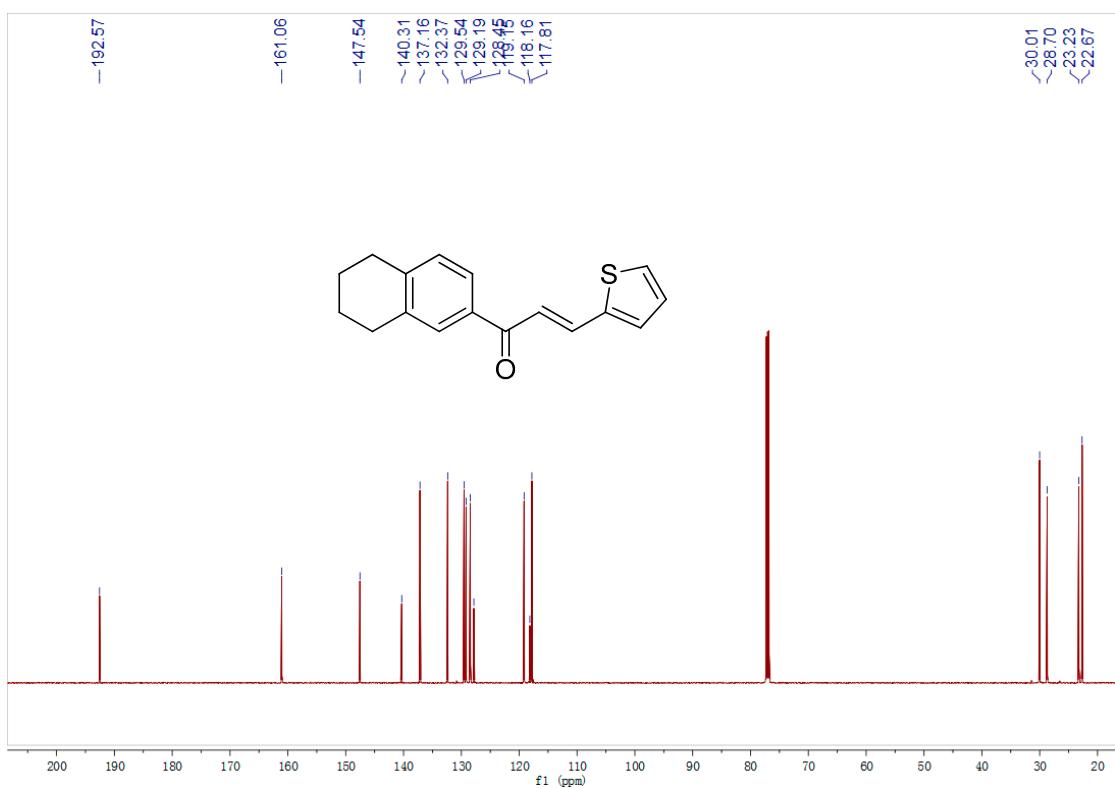
**Figure S6.**  $^{13}\text{C}$  NMR (150 MHz,  $\text{CDCl}_3$ ) spectrum of **3c**.



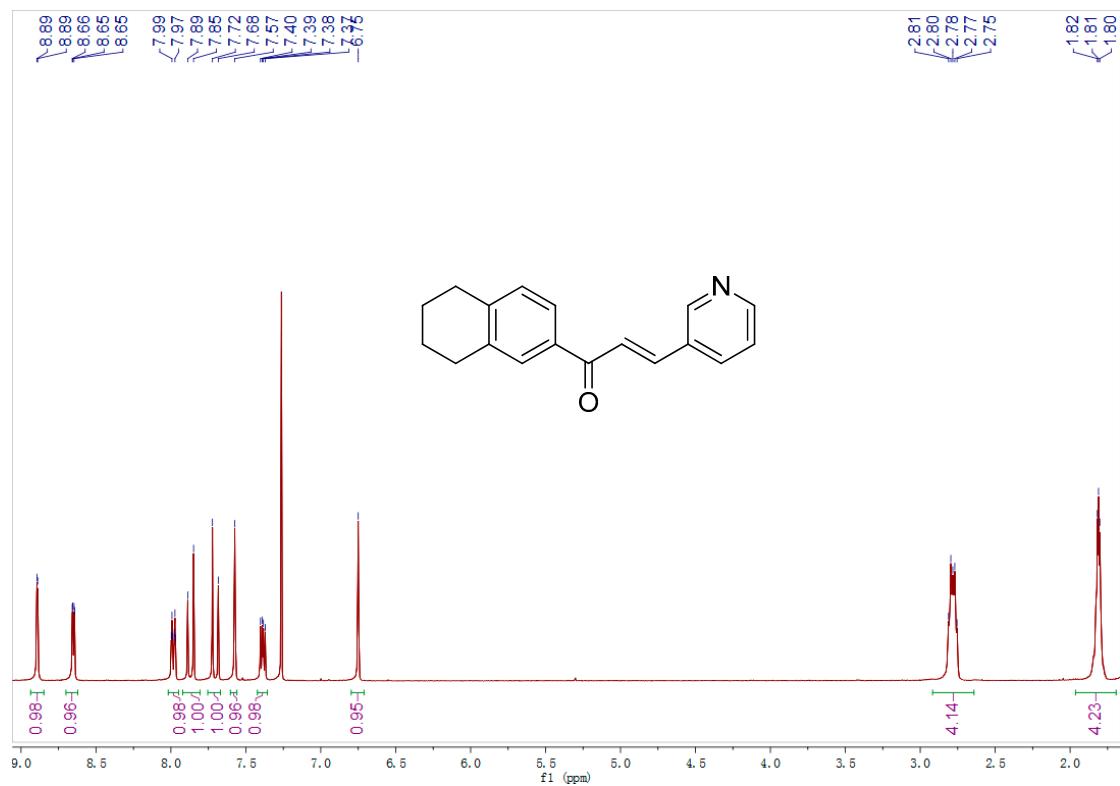
**Figure S7.**  $^1\text{H}$  NMR (400 MHz,  $\text{CDCl}_3$ ) spectrum of **3d**.



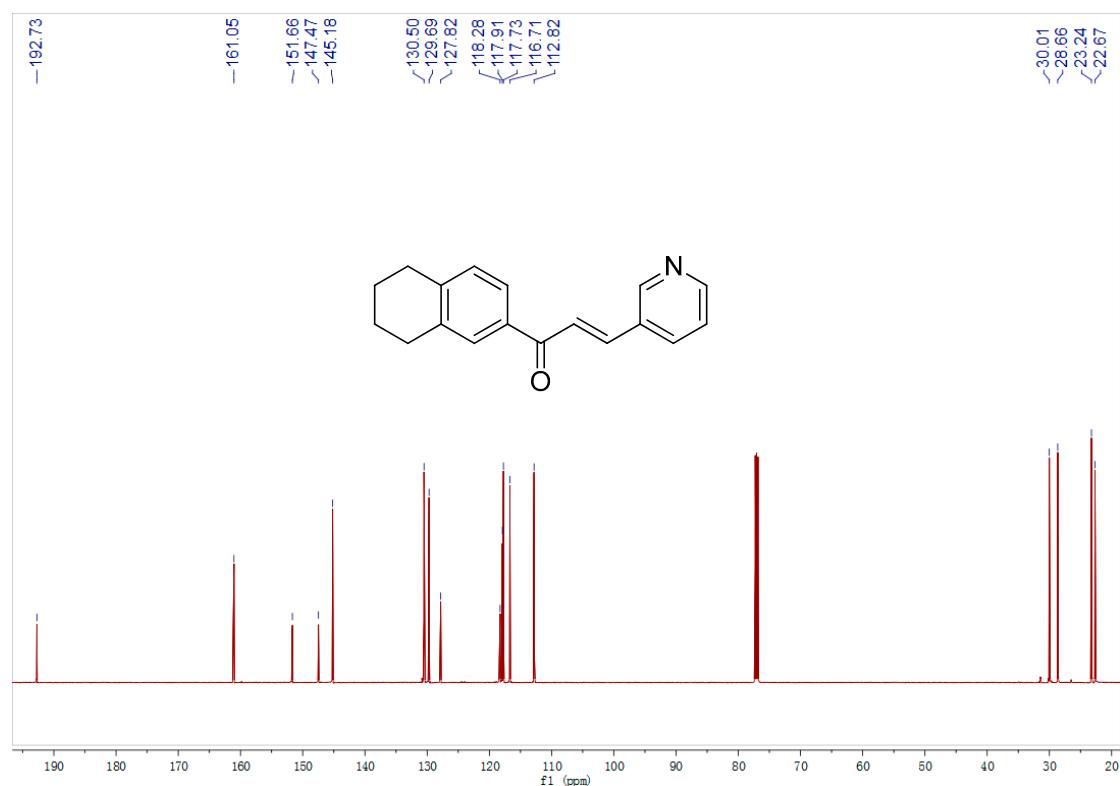
**Figure S8.**  $^{13}\text{C}$  NMR (150 MHz,  $\text{CDCl}_3$ ) spectrum of **3d**.



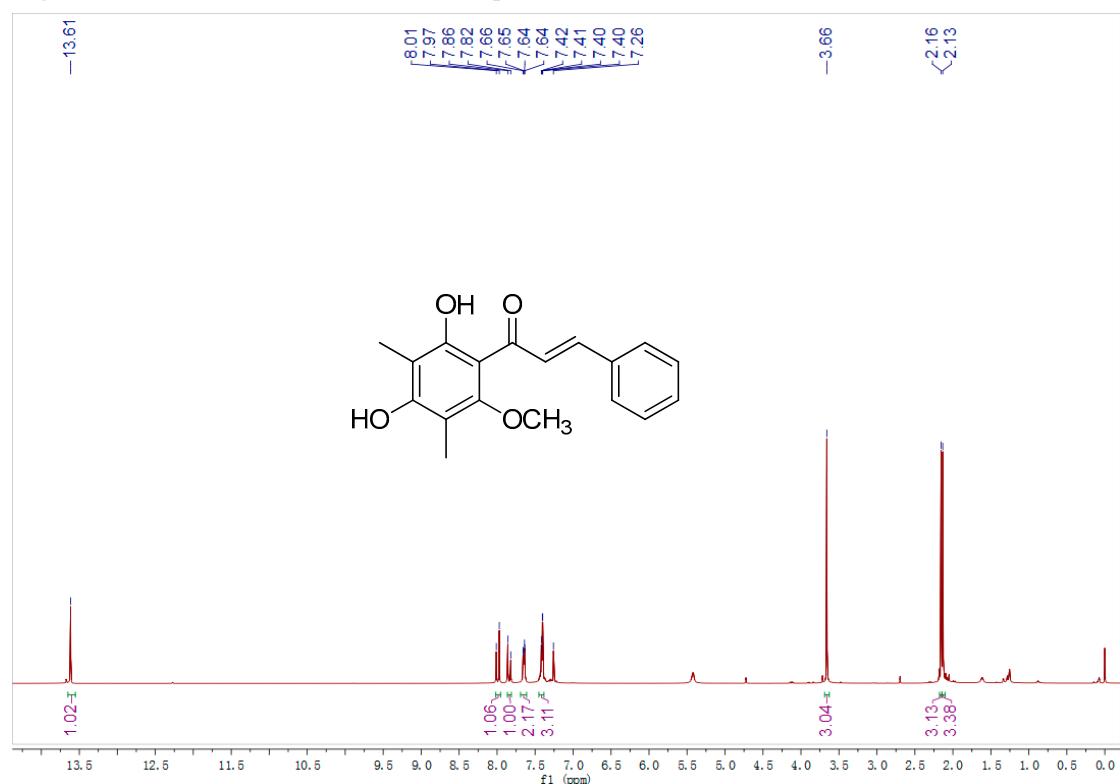
**Figure S9.**  $^1\text{H}$  NMR (400 MHz,  $\text{CDCl}_3$ ) spectrum of **3e**.



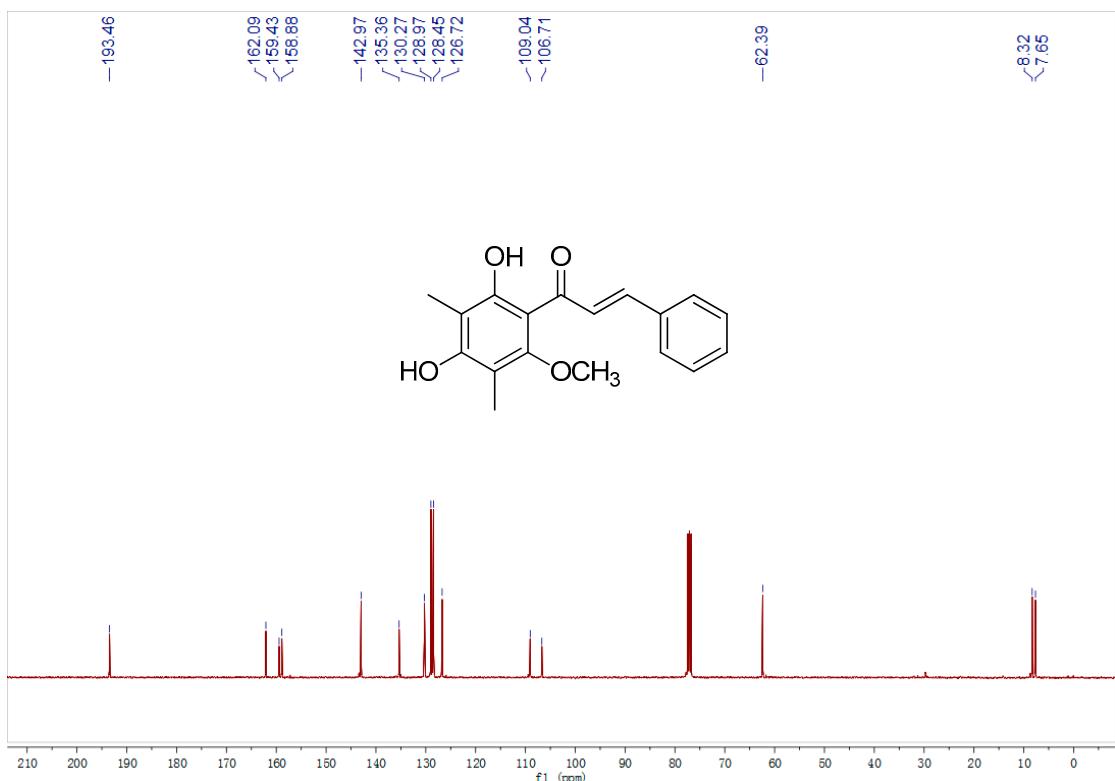
**Figure S10.**  $^{13}\text{C}$  NMR (150 MHz,  $\text{CDCl}_3$ ) spectrum of **3e**.



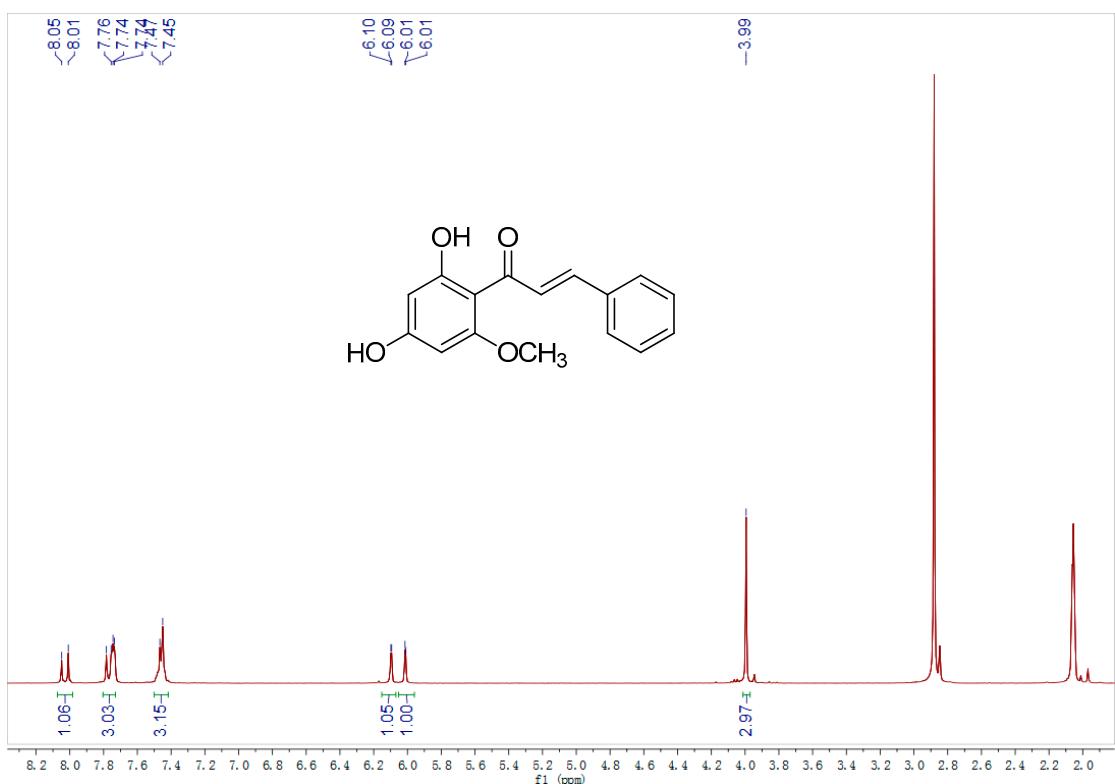
**Figure S11.**  $^1\text{H}$  NMR (400 MHz,  $\text{CDCl}_3$ ) spectrum of **3f**.



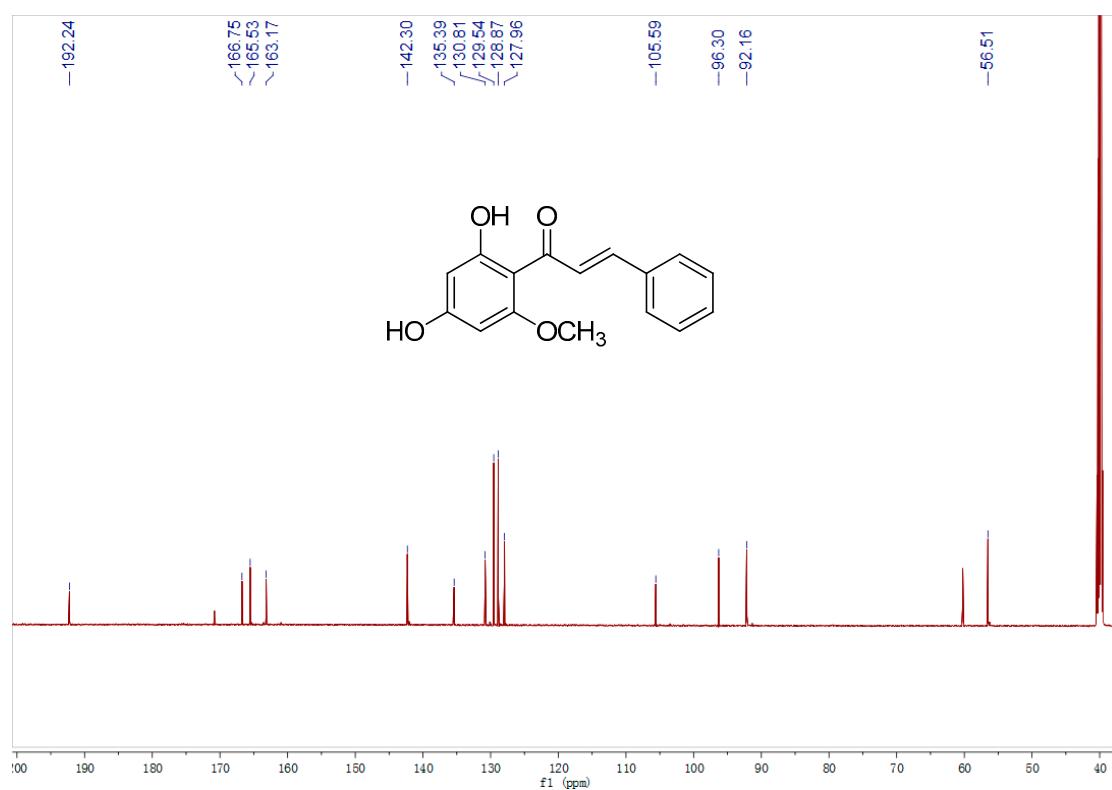
**Figure S12.**  $^{13}\text{C}$  NMR (100 MHz,  $\text{CDCl}_3$ ) spectrum of **3f**.



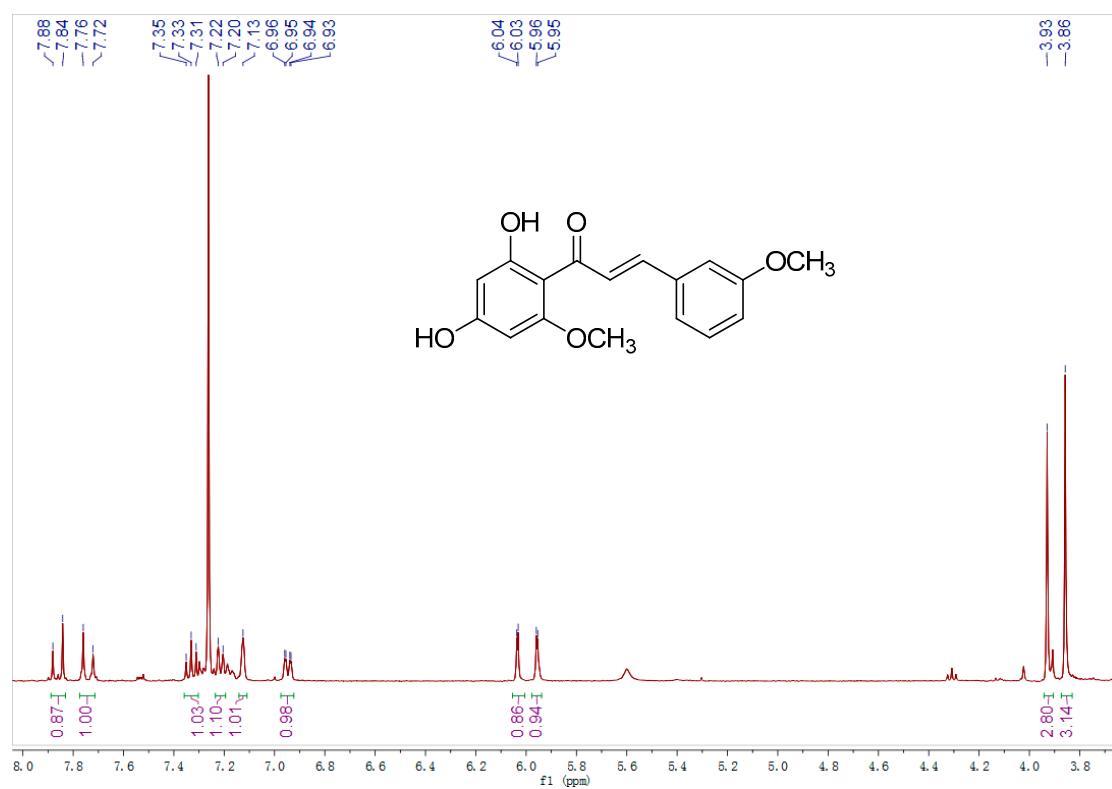
**Figure S13.**  $^1\text{H}$  NMR (400 MHz, Acetone- $d_6$ ) spectrum of **3g**.



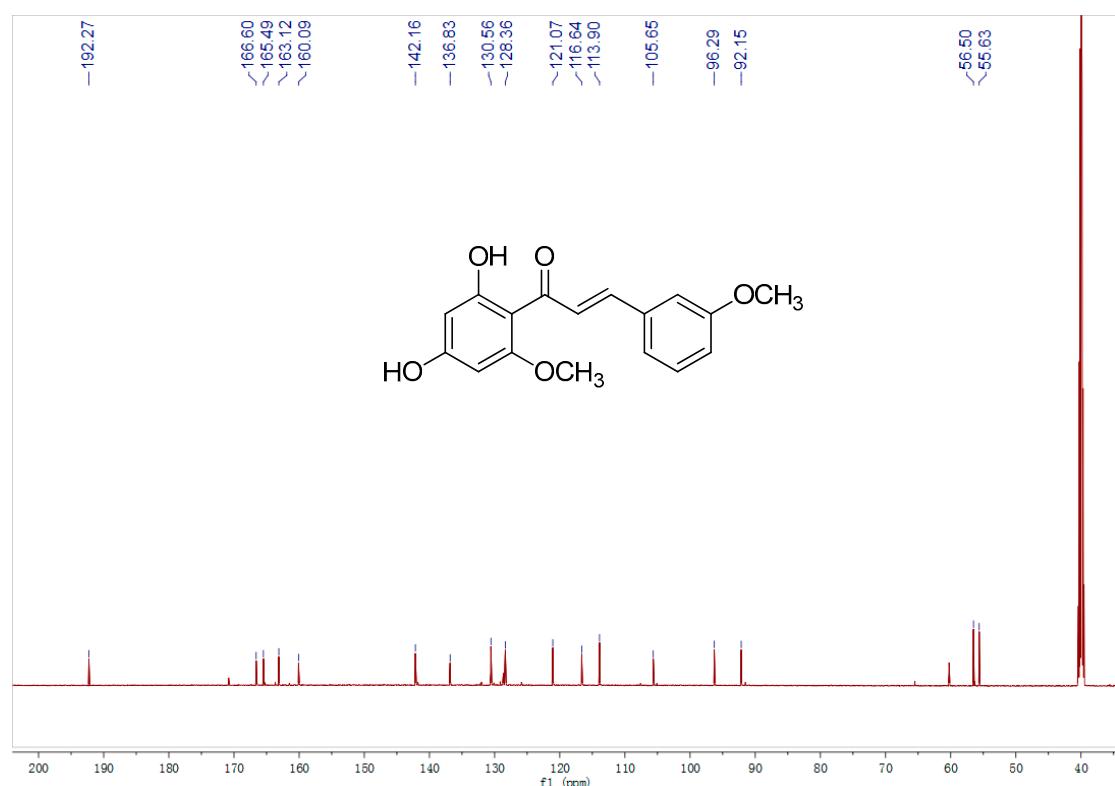
**Figure S14.**  $^{13}\text{C}$  NMR (150 MHz,  $\text{DMSO}-d_6$ ) spectrum of **3g**.



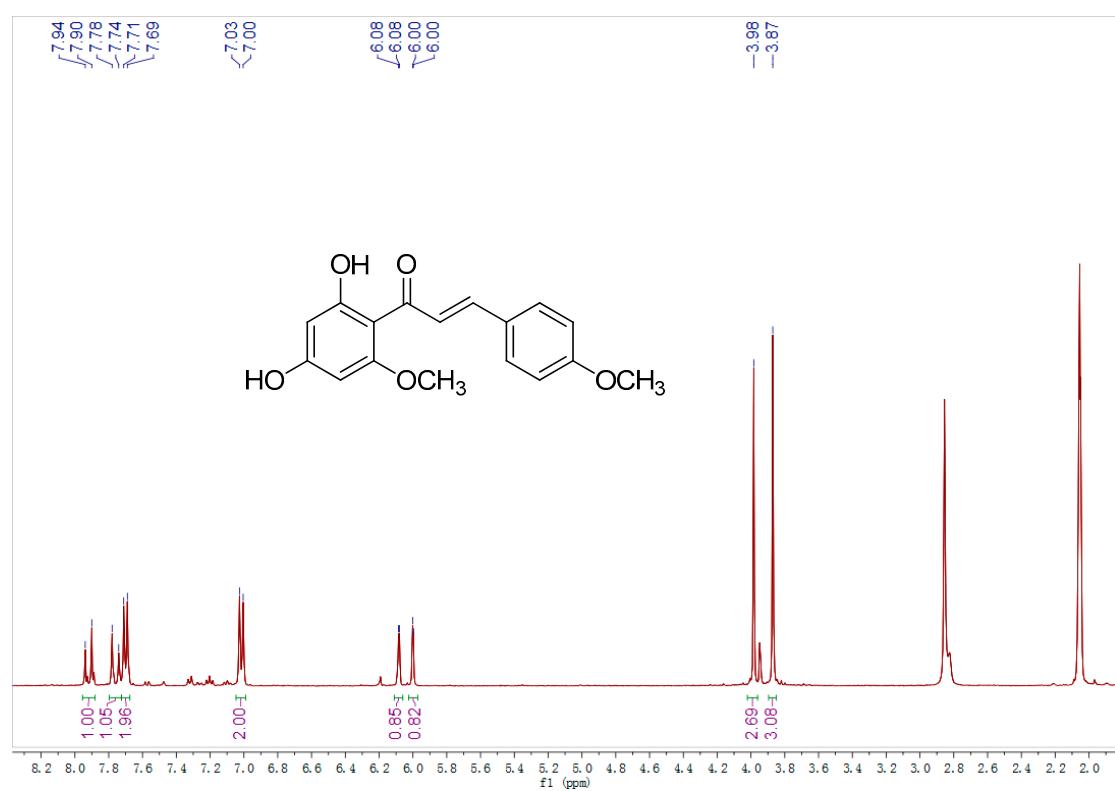
**Figure S15.**  $^1\text{H}$  NMR (400 MHz,  $\text{CDCl}_3$ ) spectrum of **3h**.



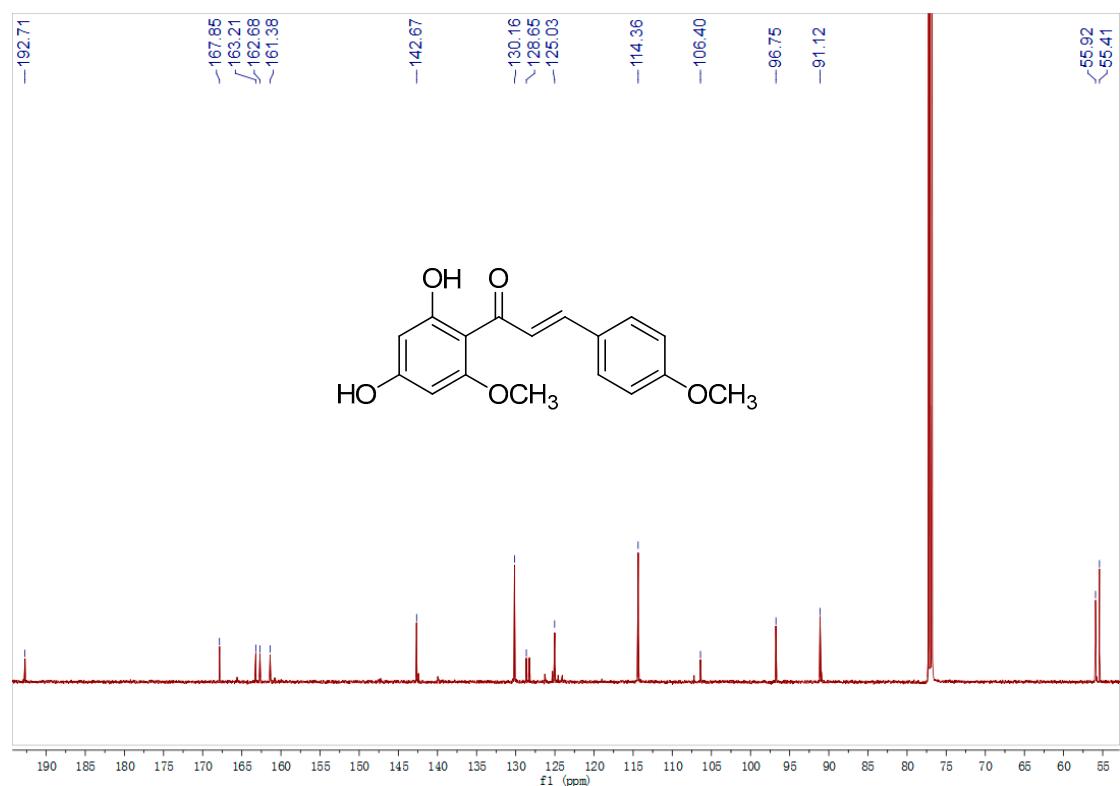
**Figure S16.**  $^{13}\text{C}$  NMR (150 MHz, DMSO- $d_6$ ) spectrum of **3h**.



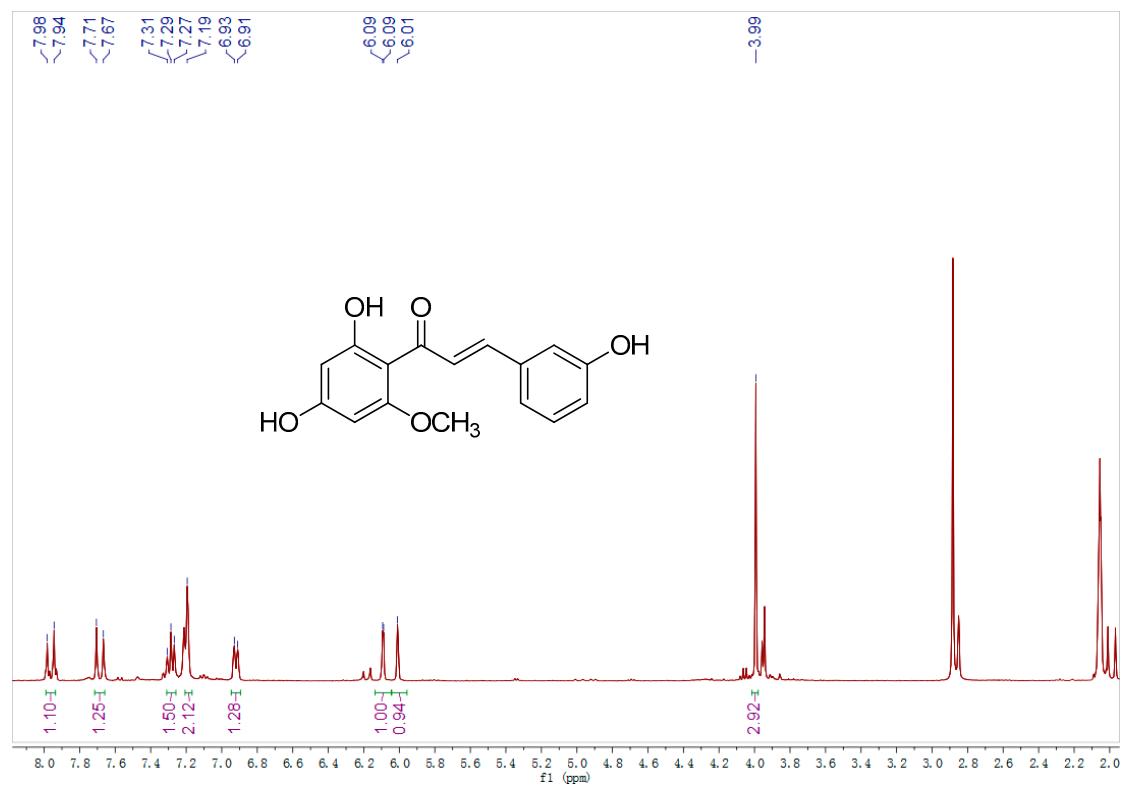
**Figure S17.**  $^1\text{H}$  NMR (400 MHz, Acetone- $d_6$ ) spectrum of **3i**.



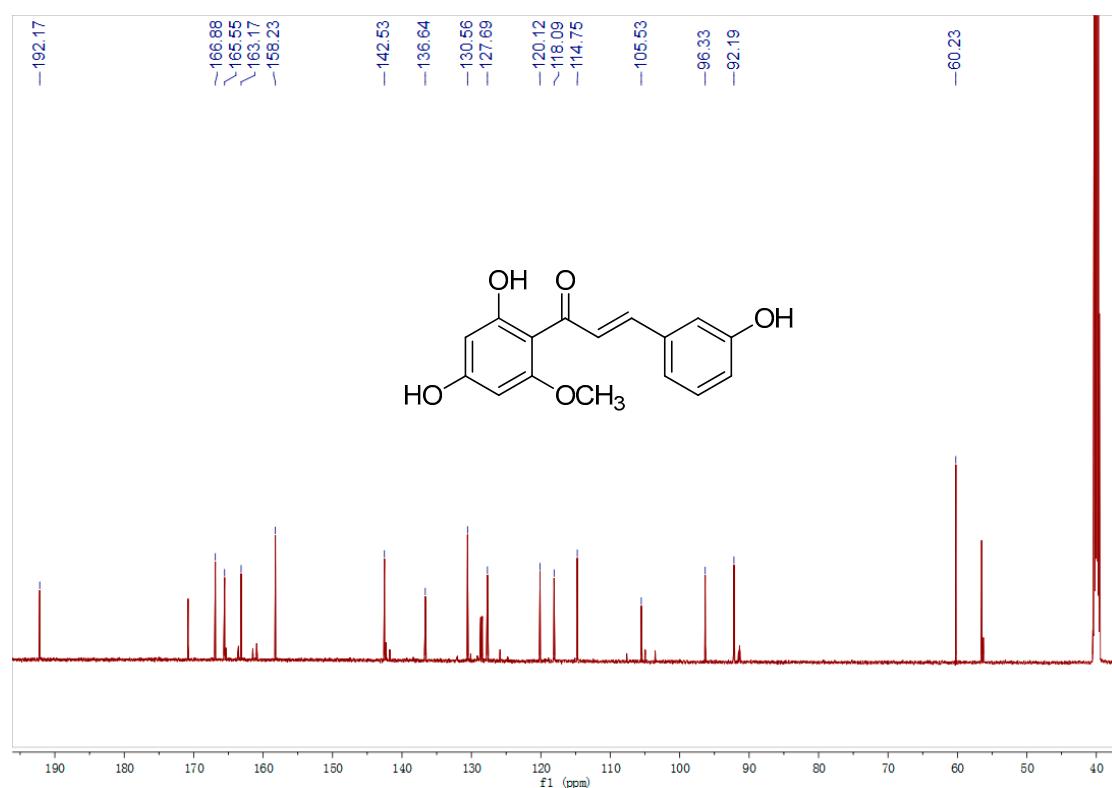
**Figure S18.**  $^{13}\text{C}$  NMR (150 MHz,  $\text{CDCl}_3$ ) spectrum of **3i**.



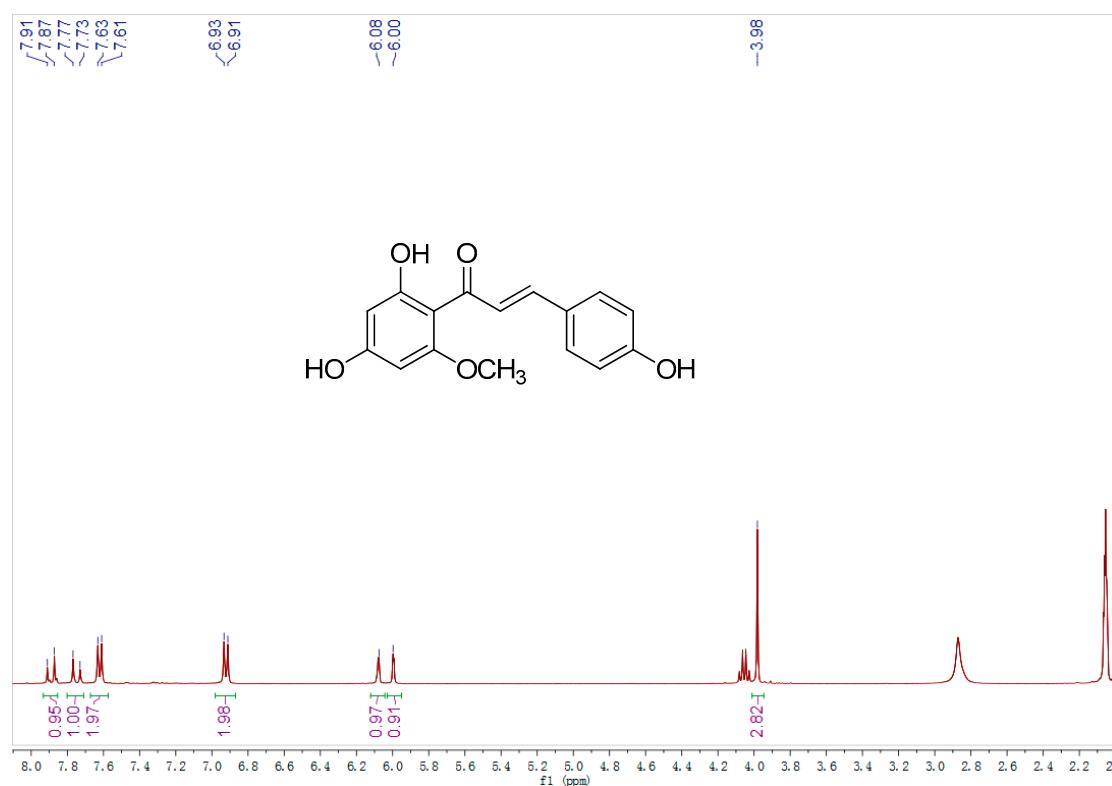
**Figure S19.**  $^1\text{H}$  NMR (400 MHz, Acetone- $d_6$ ) spectrum of **3j**.



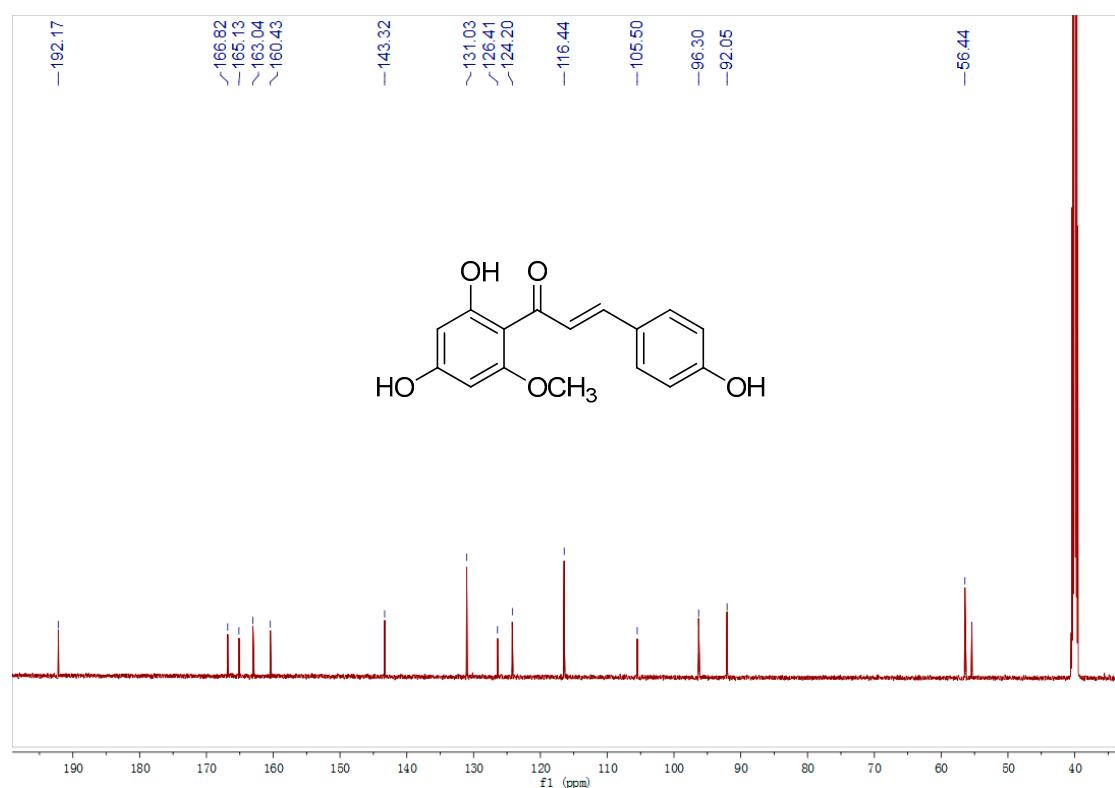
**Figure S20.**  $^{13}\text{C}$  NMR (150 MHz,  $\text{DMSO}-d_6$ ) spectrum of **3j**.



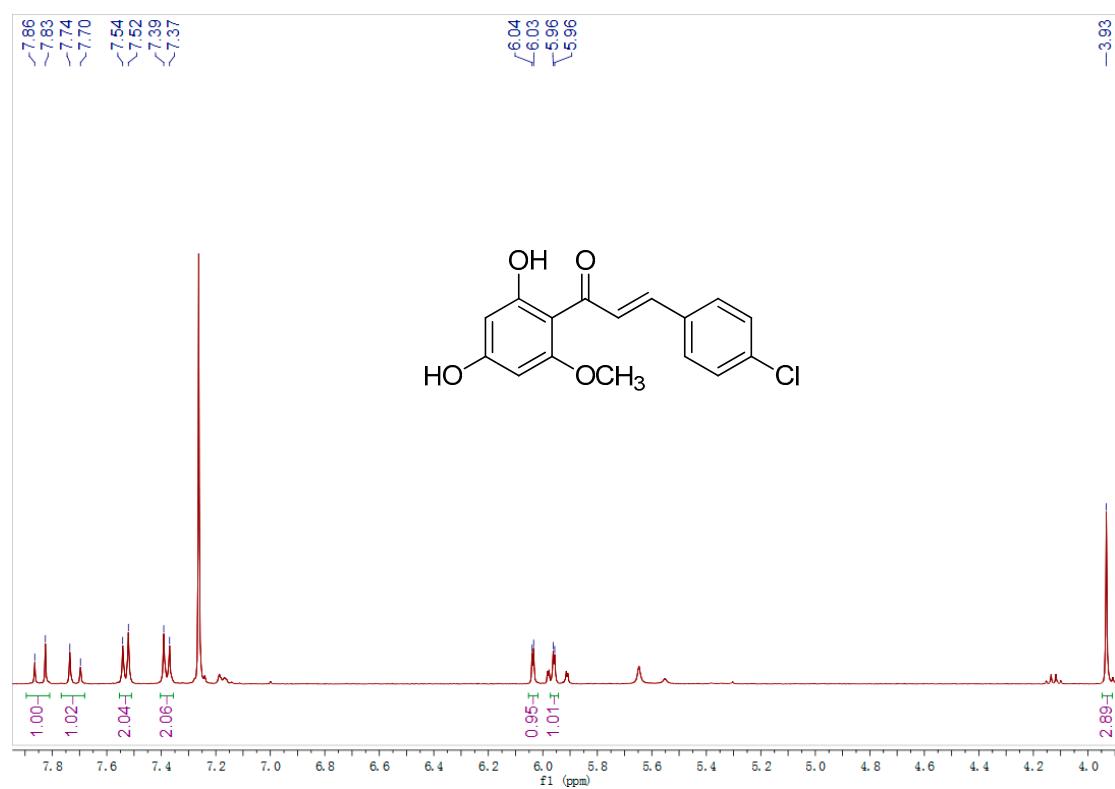
**Figure S21.**  $^1\text{H}$  NMR (400 MHz, Acetone- $d_6$ ) spectrum of **3k**.



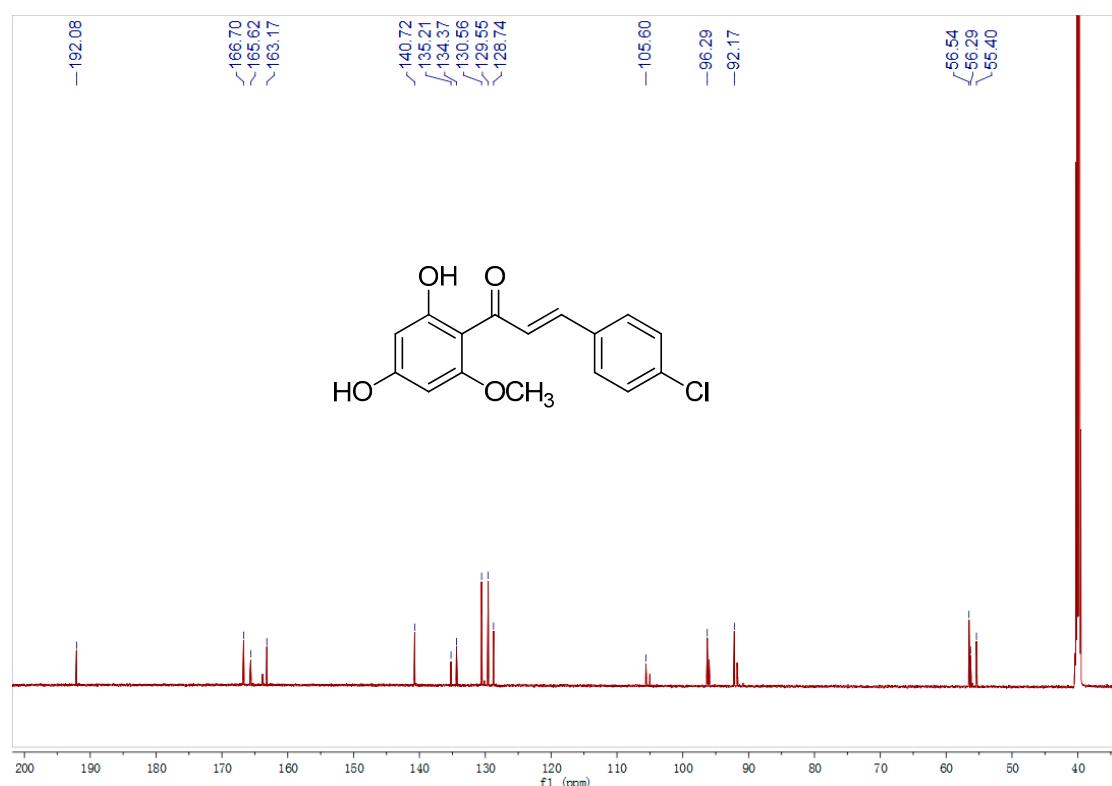
**Figure S22.**  $^{13}\text{C}$  NMR (150 MHz,  $\text{DMSO}-d_6$ ) spectrum of **3k**.



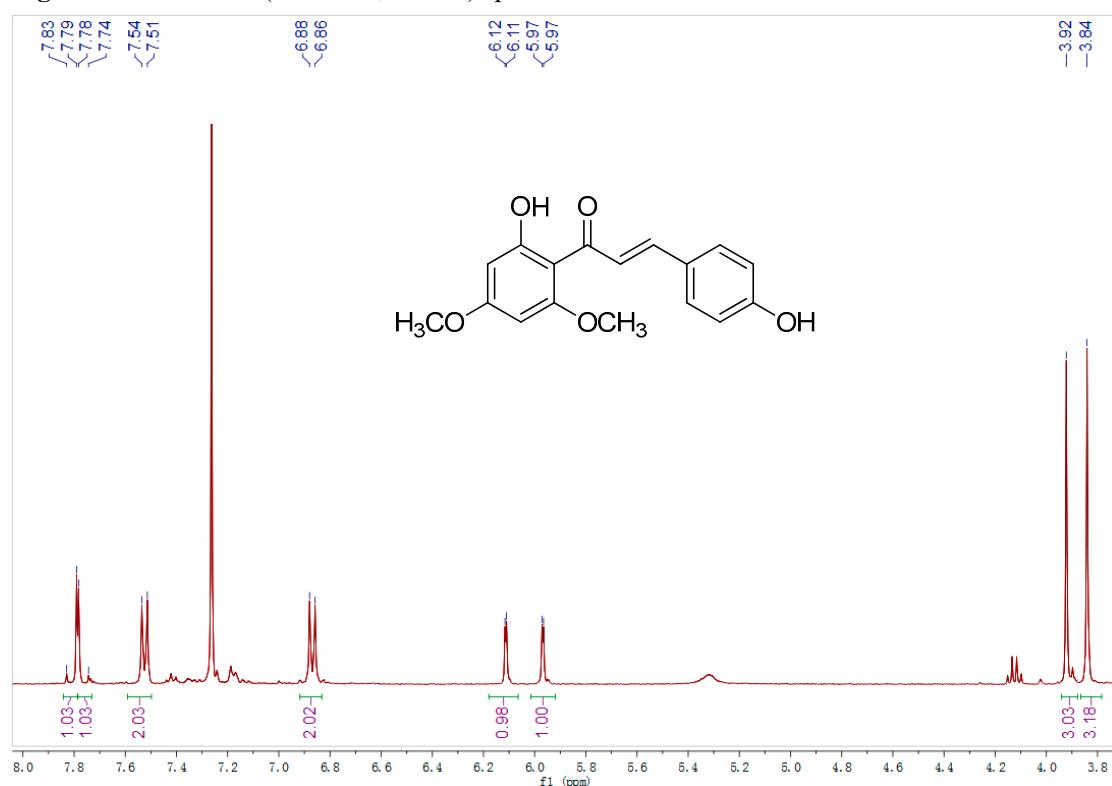
**Figure S23.**  $^1\text{H}$  NMR (400 MHz,  $\text{CDCl}_3$ ) spectrum of **3m**.



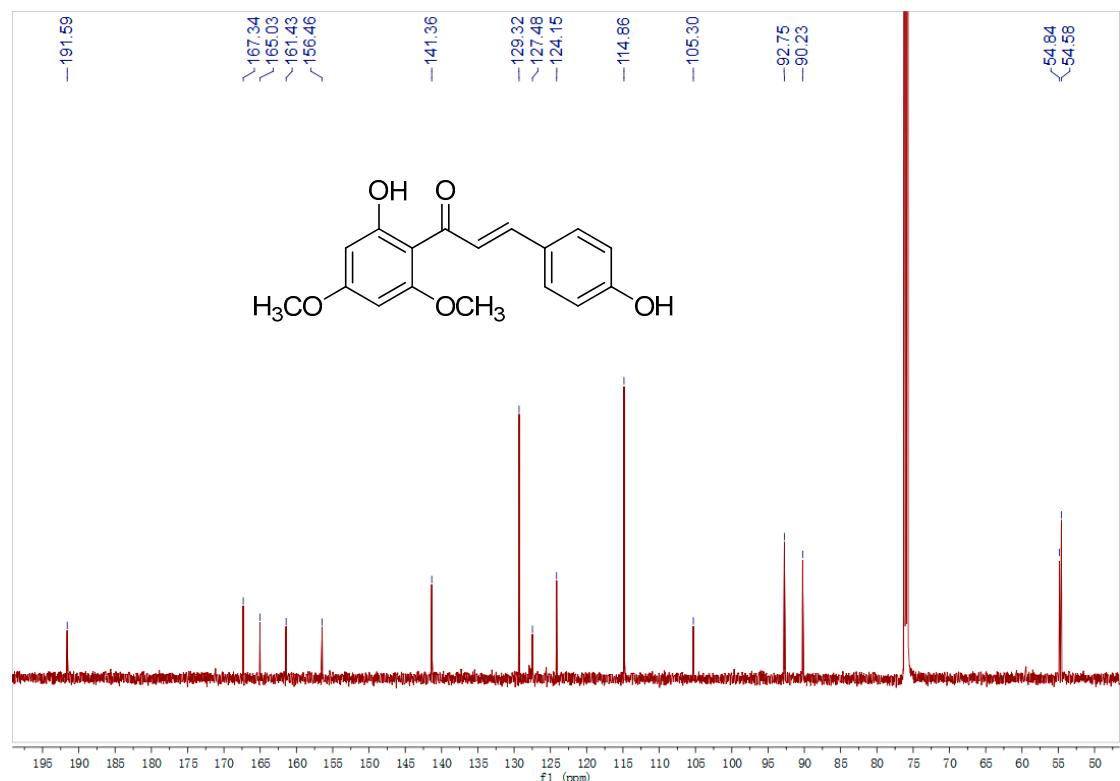
**Figure S24.**  $^{13}\text{C}$  NMR (150 MHz,  $\text{DMSO}-d_6$ ) spectrum of **3m**.



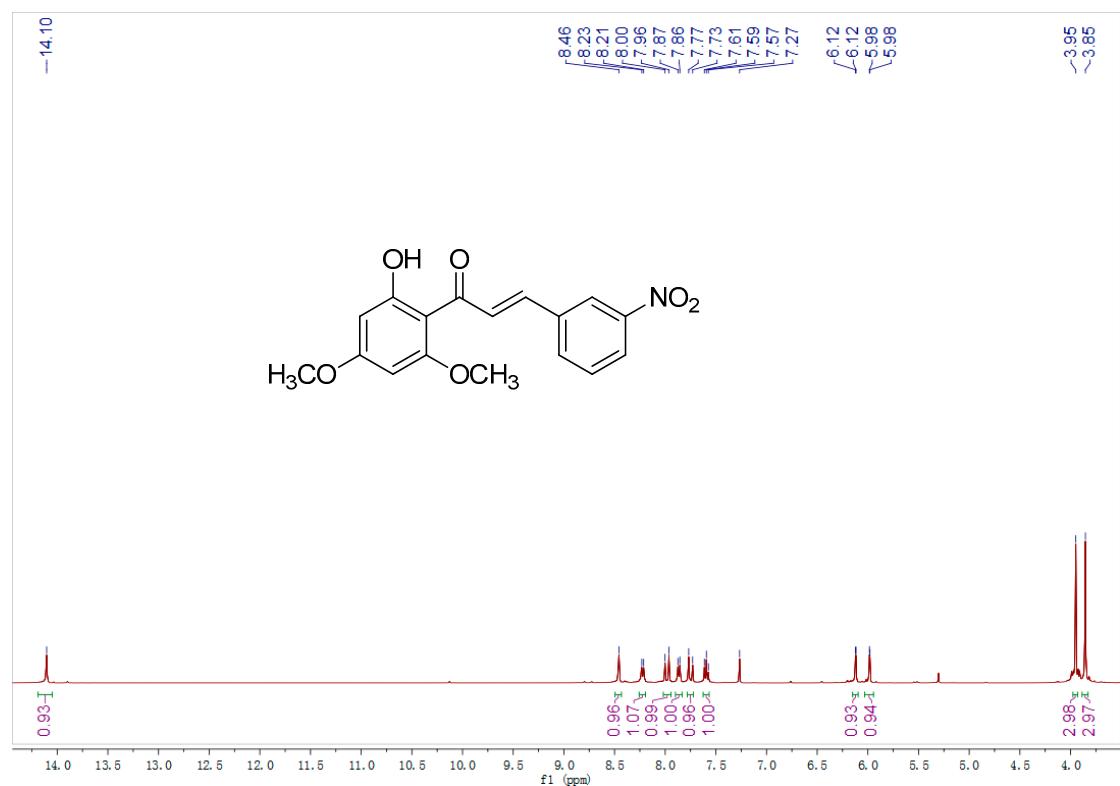
**Figure S25.**  $^1\text{H}$  NMR (400 MHz,  $\text{CDCl}_3$ ) spectrum of **3n**.



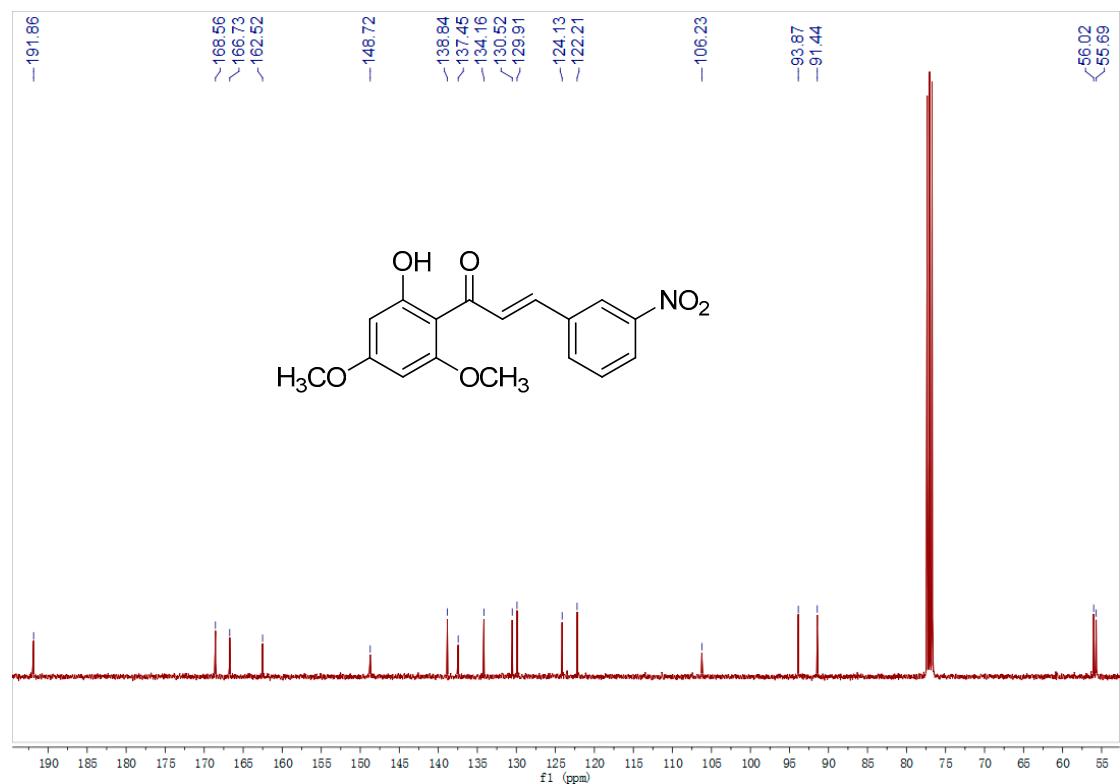
**Figure S26.**  $^{13}\text{C}$  NMR (150 MHz,  $\text{CDCl}_3$ ) spectrum of **3n**.



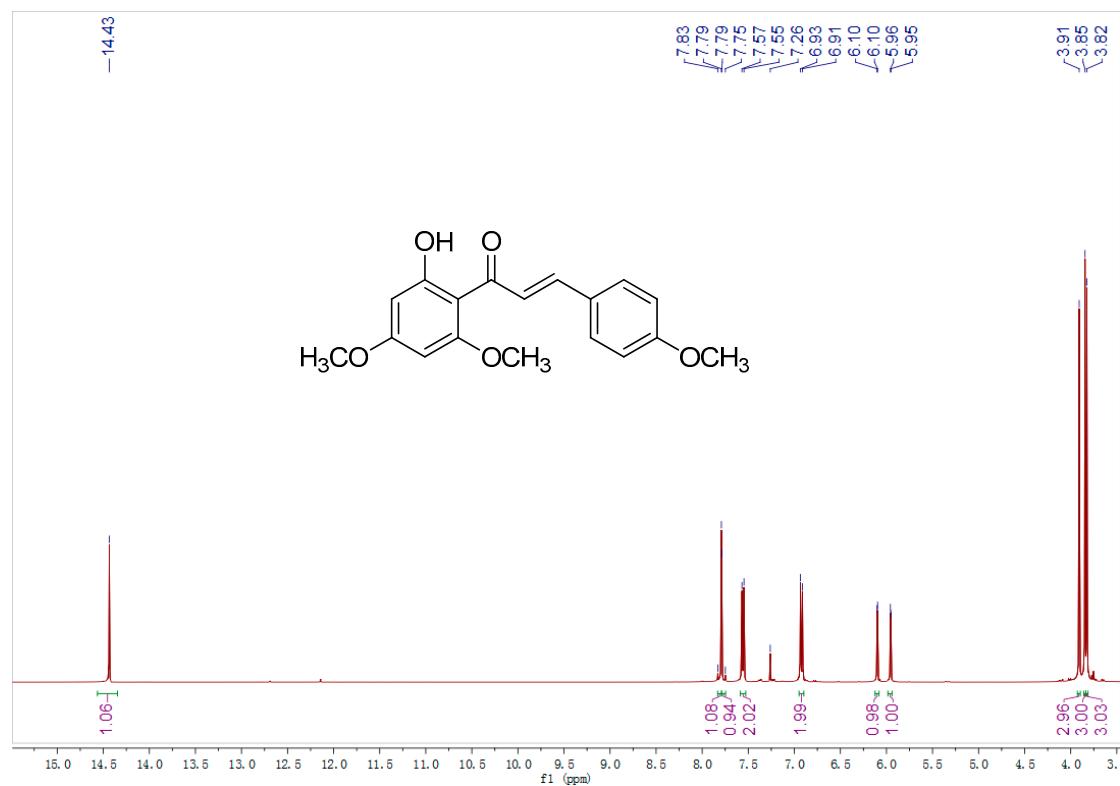
**Figure S27.**  $^1\text{H}$  NMR (400 MHz,  $\text{CDCl}_3$ ) spectrum of **3o**.



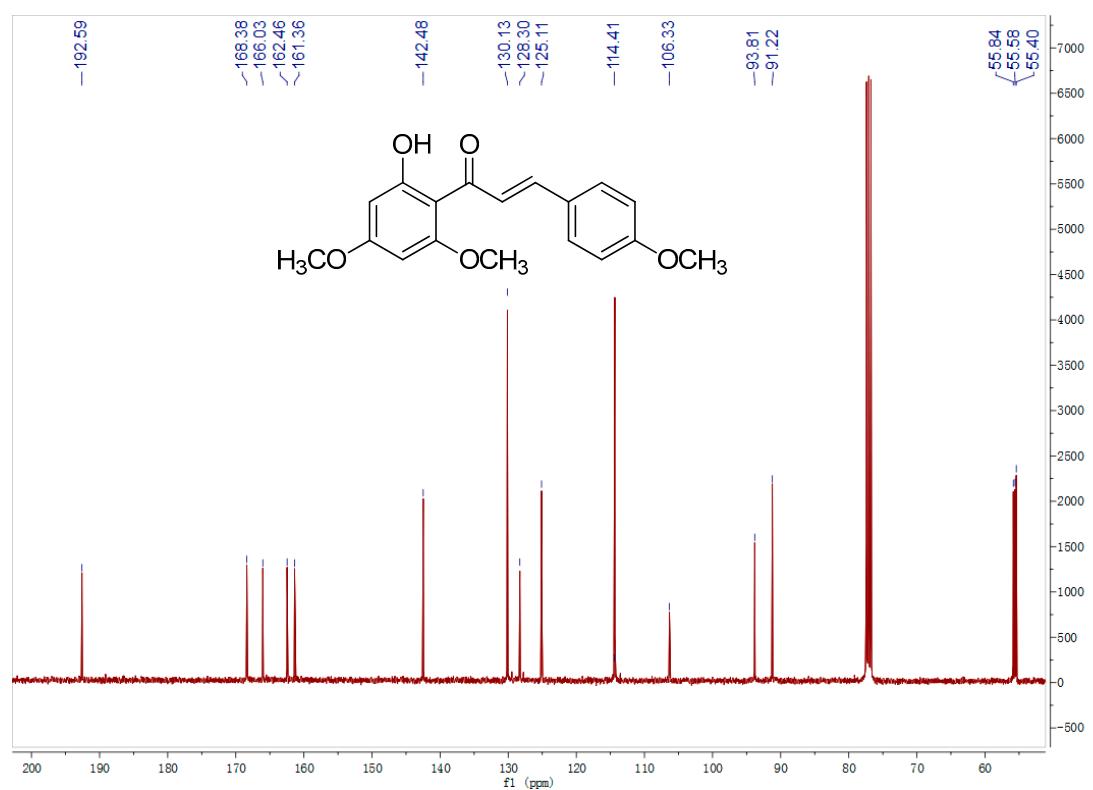
**Figure S28.**  $^{13}\text{C}$  NMR (100 MHz,  $\text{CDCl}_3$ ) spectrum of **3o**.



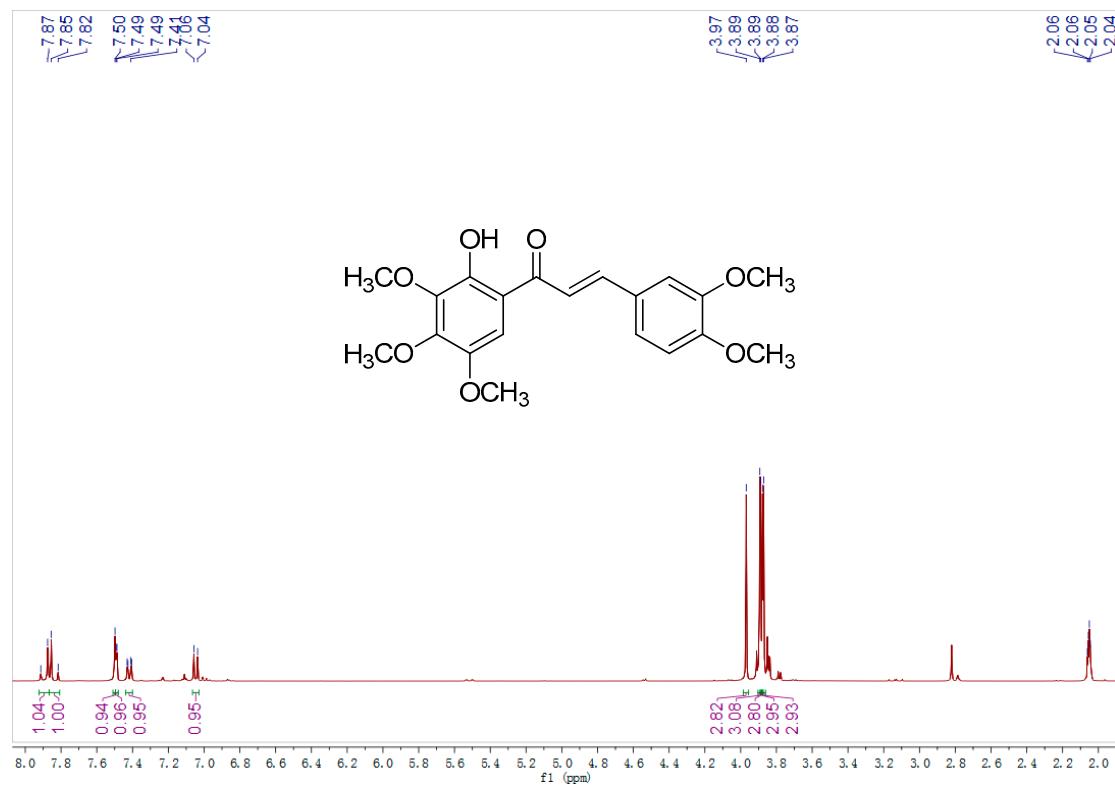
**Figure S29.**  $^1\text{H}$  NMR (400 MHz,  $\text{CDCl}_3$ ) spectrum of **3p**.



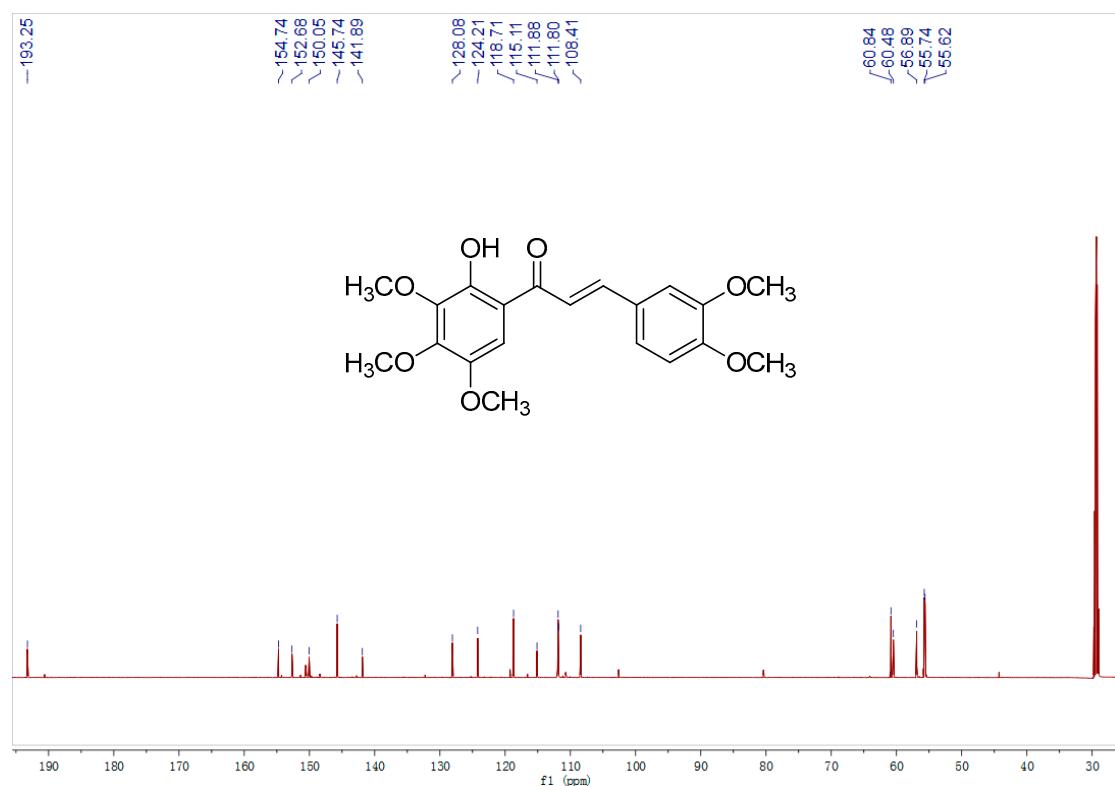
**Figure S30.**  $^{13}\text{C}$  NMR (100 MHz,  $\text{CDCl}_3$ ) spectrum of **3p**.



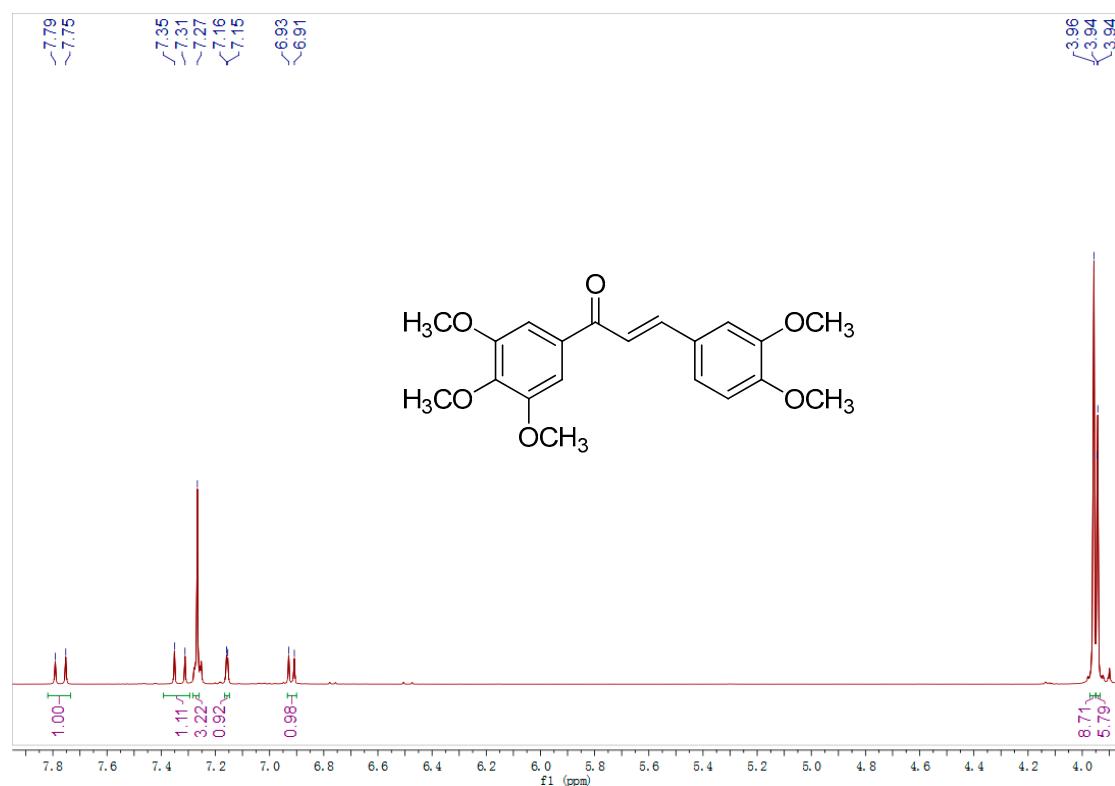
**Figure S31.**  $^1\text{H}$  NMR (400 MHz, Acetone- $d_6$ ) spectrum of **3q**.



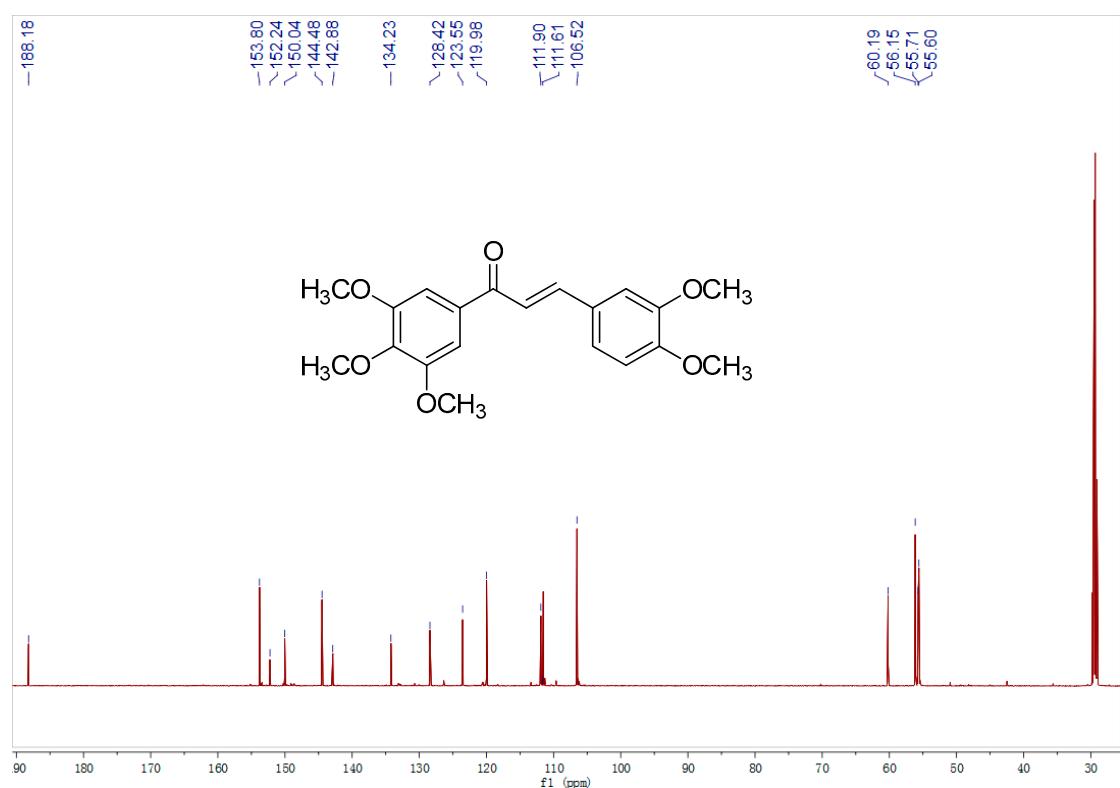
**Figure S32.**  $^{13}\text{C}$  NMR (150 MHz, Acetone- $d_6$ ) spectrum of **3q**.



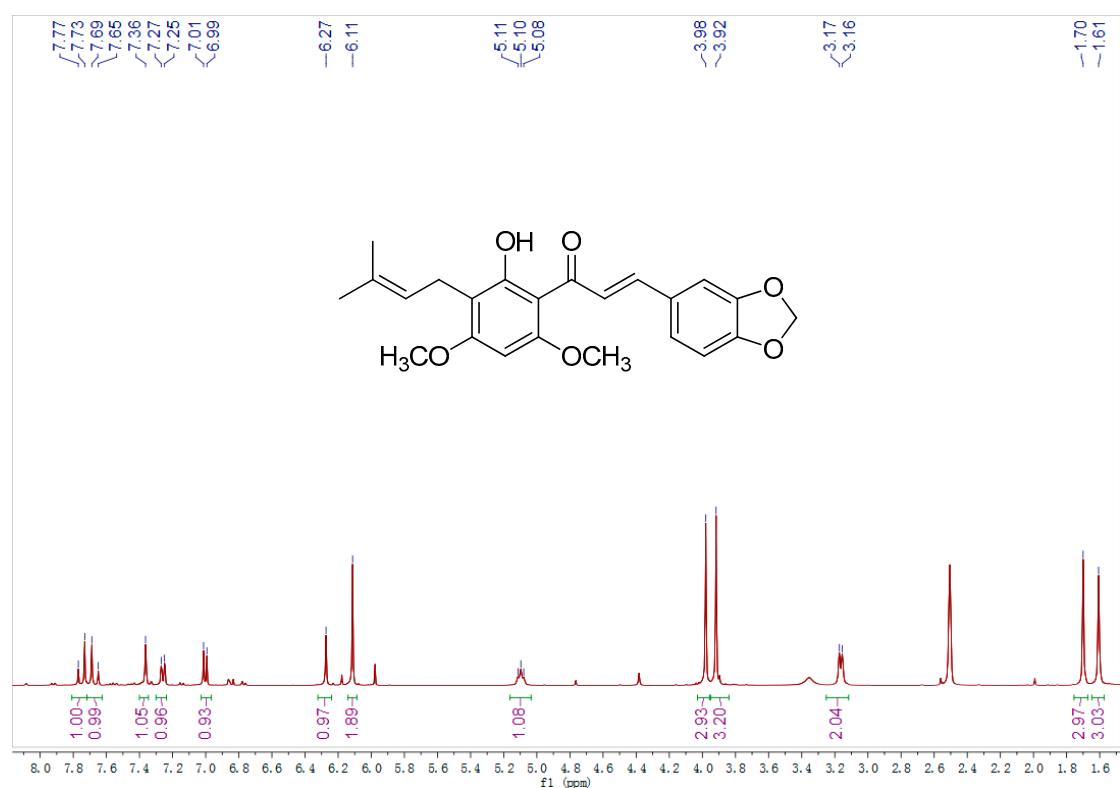
**Figure S33.**  $^1\text{H}$  NMR (400 MHz,  $\text{CDCl}_3$ ) spectrum of **3r**.



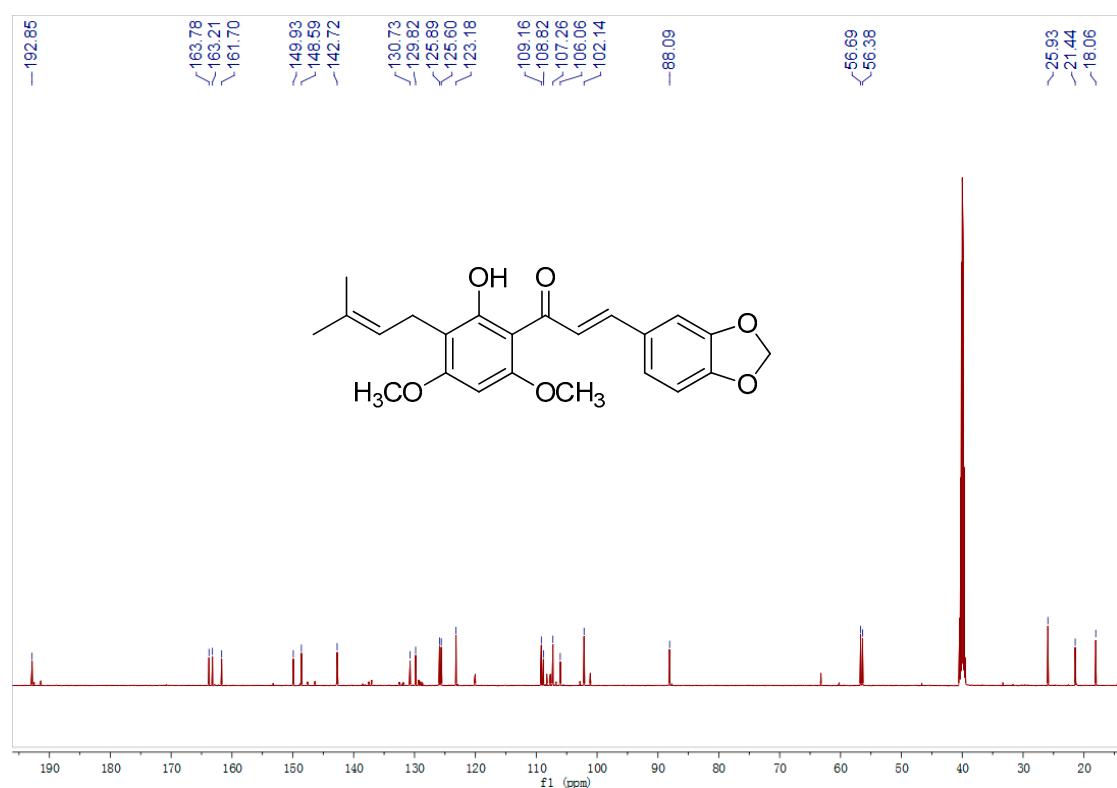
**Figure S34.**  $^{13}\text{C}$  NMR (150 MHz, Acetone- $d_6$ ) spectrum of **3r**.



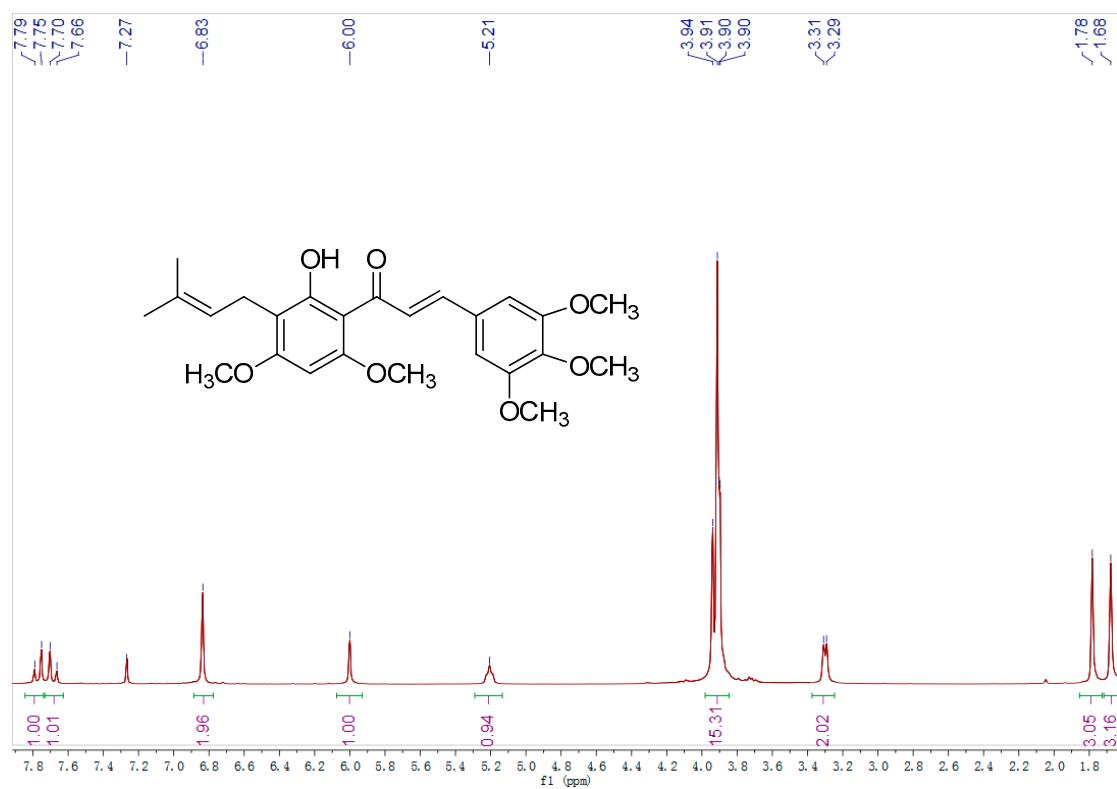
**Figure S35.**  $^1\text{H}$  NMR (400 MHz, DMSO- $d_6$ ) spectrum of **3s**.



**Figure S36.**  $^{13}\text{C}$  NMR (150 MHz,  $\text{DMSO}-d_6$ ) spectrum of **3s**.



**Figure S37.**  $^1\text{H}$  NMR (400 MHz,  $\text{CDCl}_3$ ) spectrum of **3t**.



**Figure S38.**  $^{13}\text{C}$  NMR (150 MHz,  $\text{DMSO}-d_6$ ) spectrum of **3t**.

