

## **Synthesis and neuroprotective activity of a (–)-cytisine-isoflavone conjugate**

**Li Tang<sup>1</sup>, Ling-Yan Chen<sup>1,2\*</sup>, Zi-Hao Jia<sup>1</sup>, Hao Zheng<sup>1</sup>,  
Zhang-Rui Li<sup>1</sup>, Xiaoying Yin<sup>1\*</sup>**

<sup>1</sup> *College of Chemistry and Chemical Engineering, Shanghai University of Engineering Science,  
333 Longteng Road, Shanghai 201620, China*

<sup>2</sup> *Key Laboratory of Specially Functional Polymeric Materials and Related Technology  
(Ministry of Education), East China University of Science and Technology,  
Shanghai 200237, China; e-mail: [lingyan.chen@hotmail.com](mailto:lingyan.chen@hotmail.com), [ncyxoy@163.com](mailto:ncyxoy@163.com)*

## **SUPPLEMENTARY INFORMATION**

Figures S1-S2. <sup>1</sup>H NMR, <sup>13</sup>C NMR spectra of compound **8a**.

Figures S3-S4. <sup>1</sup>H NMR, <sup>13</sup>C NMR spectra of compound **4a**.

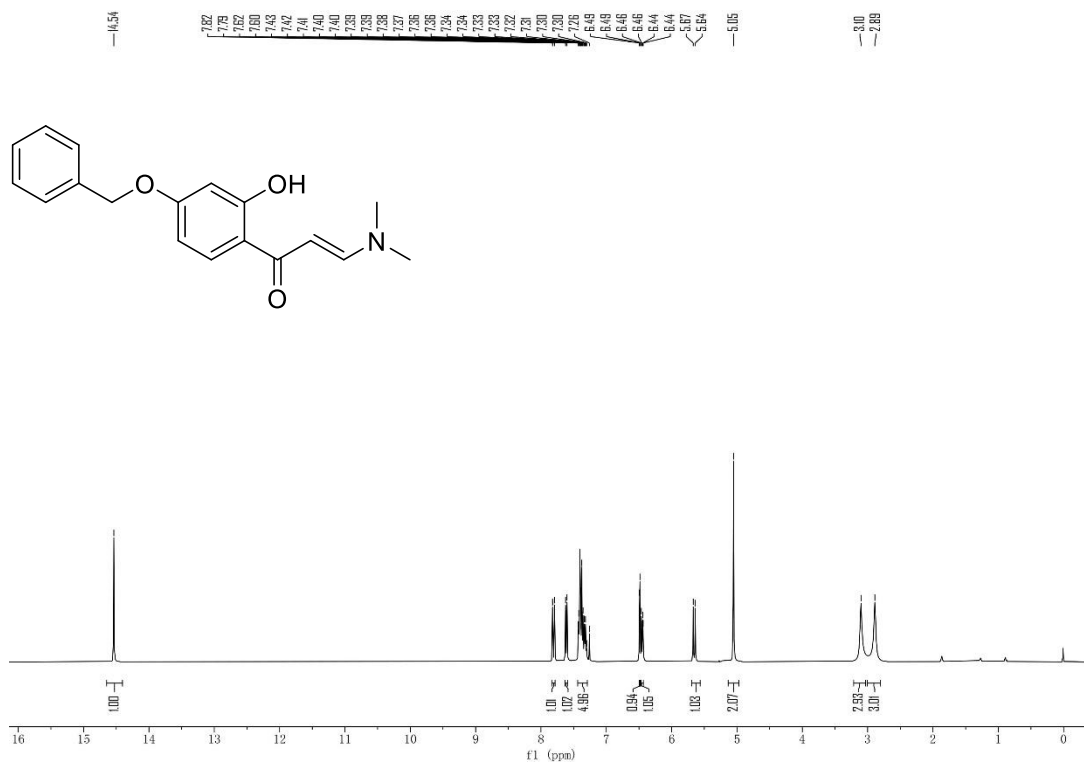
Figures S5-S6. <sup>1</sup>H NMR, <sup>13</sup>C NMR spectra of compound **9**.

Figures S7-S8. <sup>1</sup>H NMR, <sup>13</sup>C NMR spectra of compound **6**.

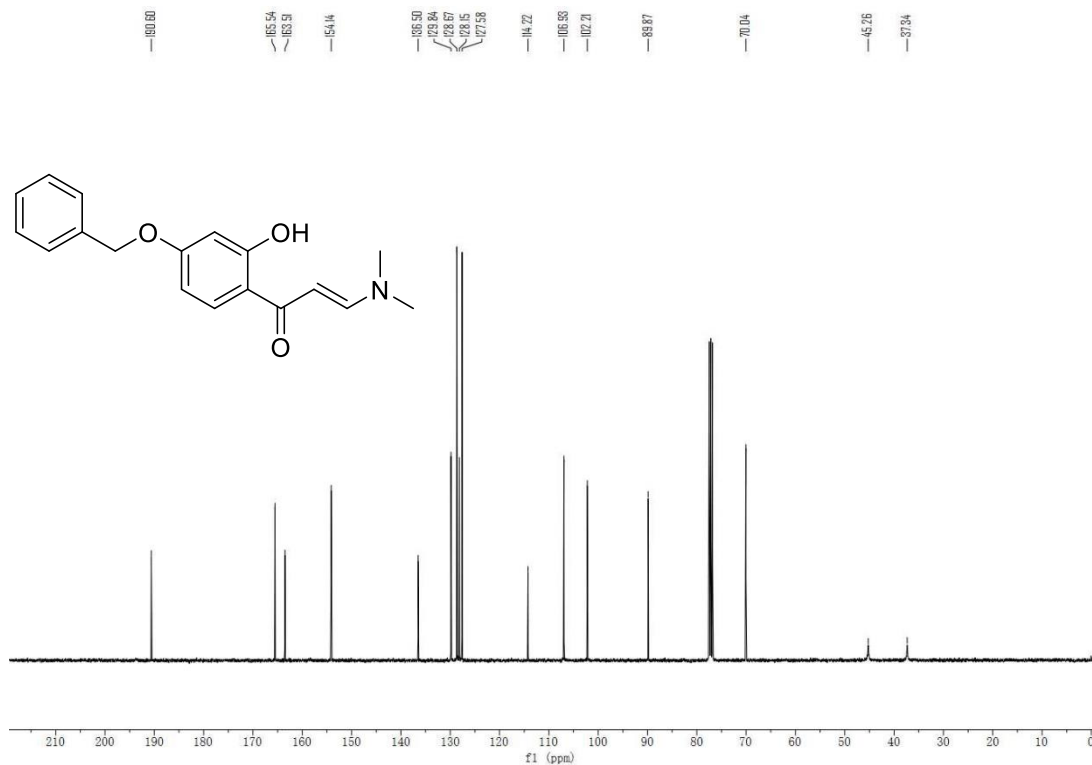
Figures S9-S10. <sup>1</sup>H NMR, <sup>13</sup>C NMR spectra of compound **3a**.

Figures S11-S12. <sup>1</sup>H NMR, <sup>13</sup>C NMR spectra of compound **2**.

Figures S13-S14. <sup>1</sup>H NMR, <sup>13</sup>C NMR spectra of compound **1**.

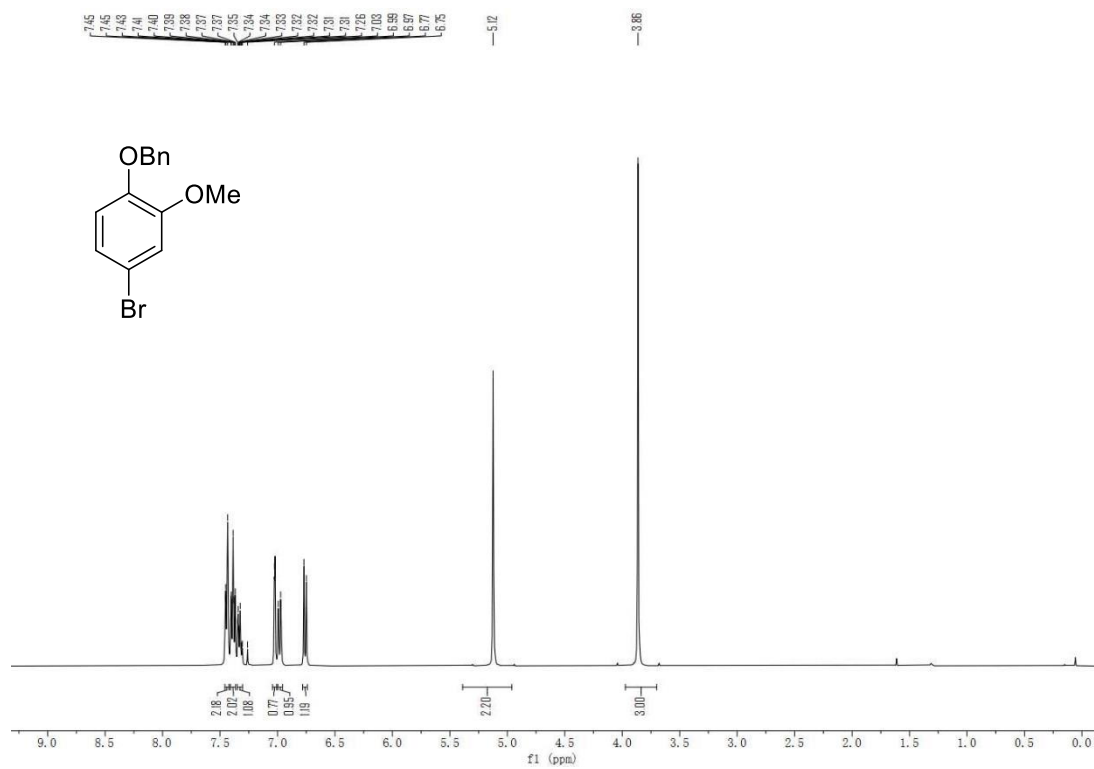


Figures S1 <sup>1</sup>H NMR spectrum of compound **8a**

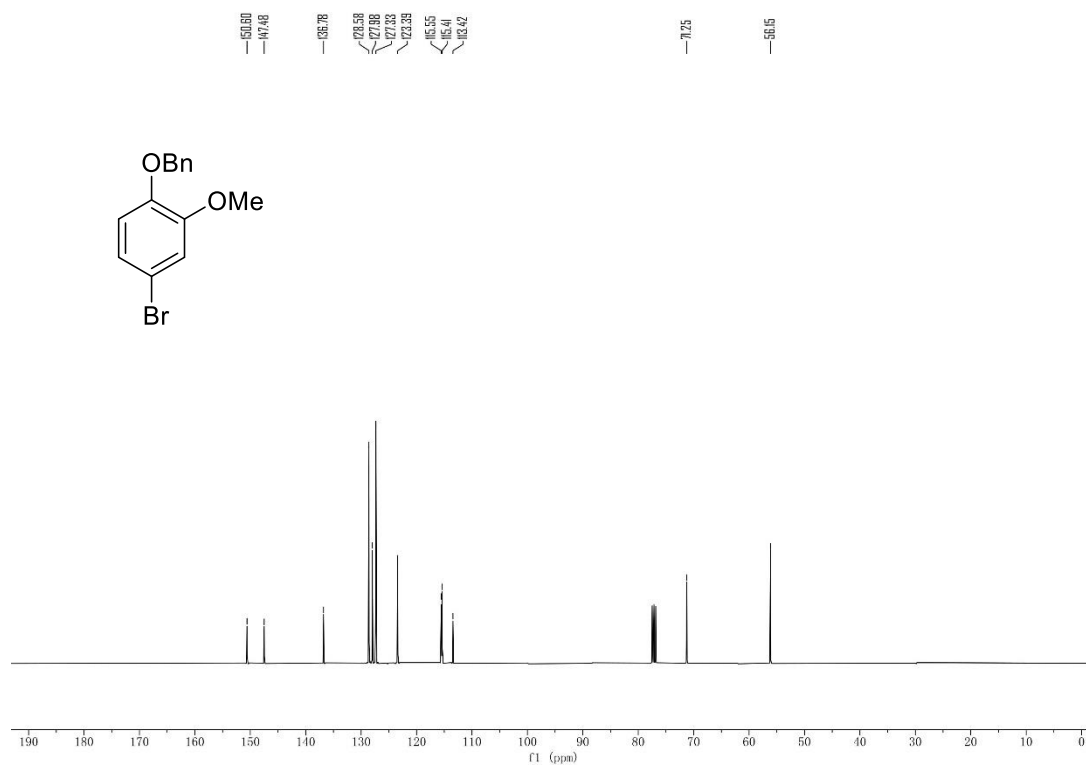


Figures S2 <sup>13</sup>C NMR spectrum of compound **8a**

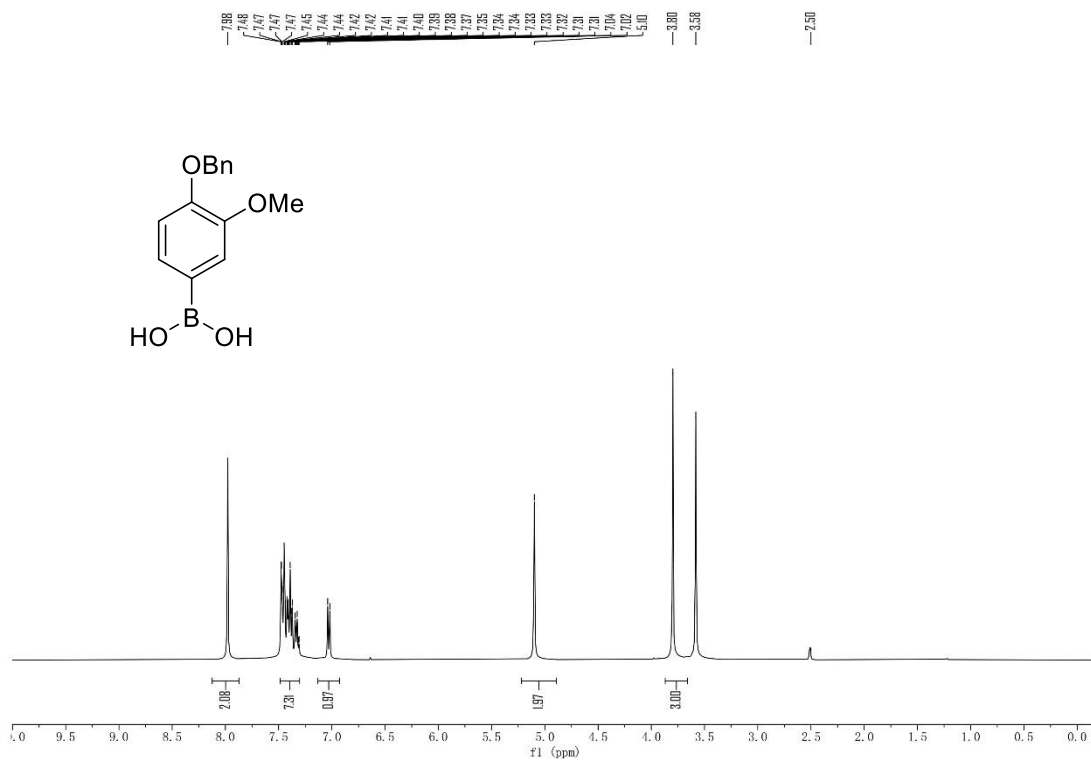




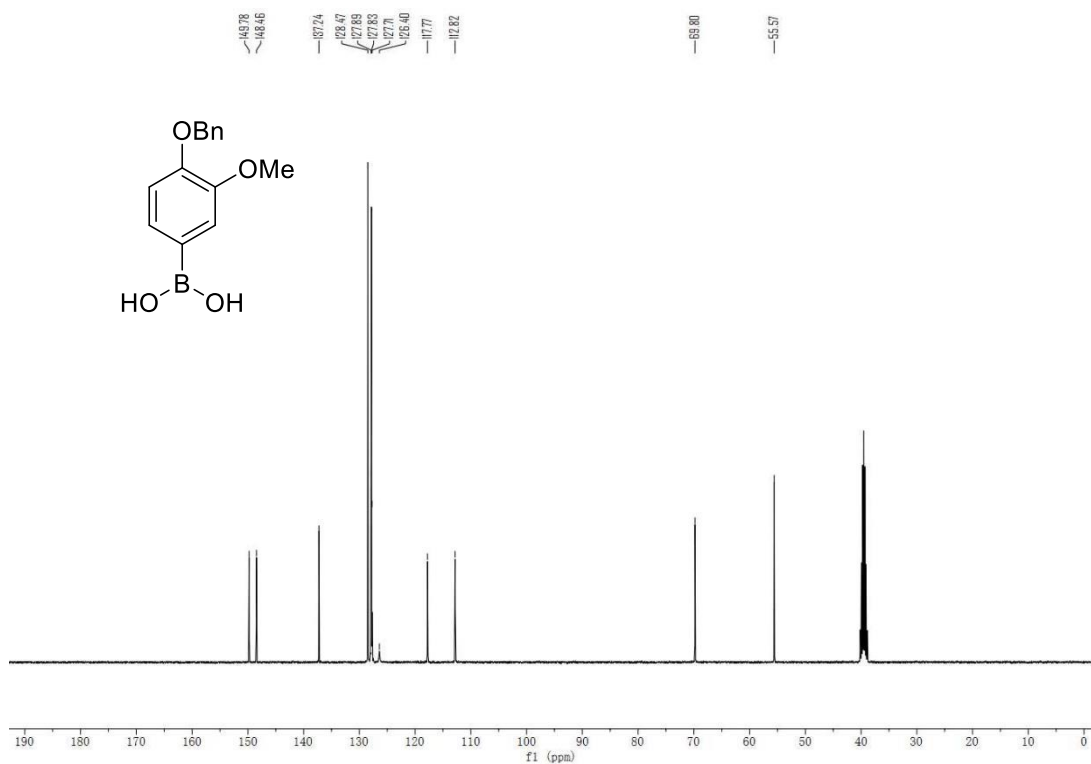
Figures S5 <sup>1</sup>H NMR spectrum of compound 9



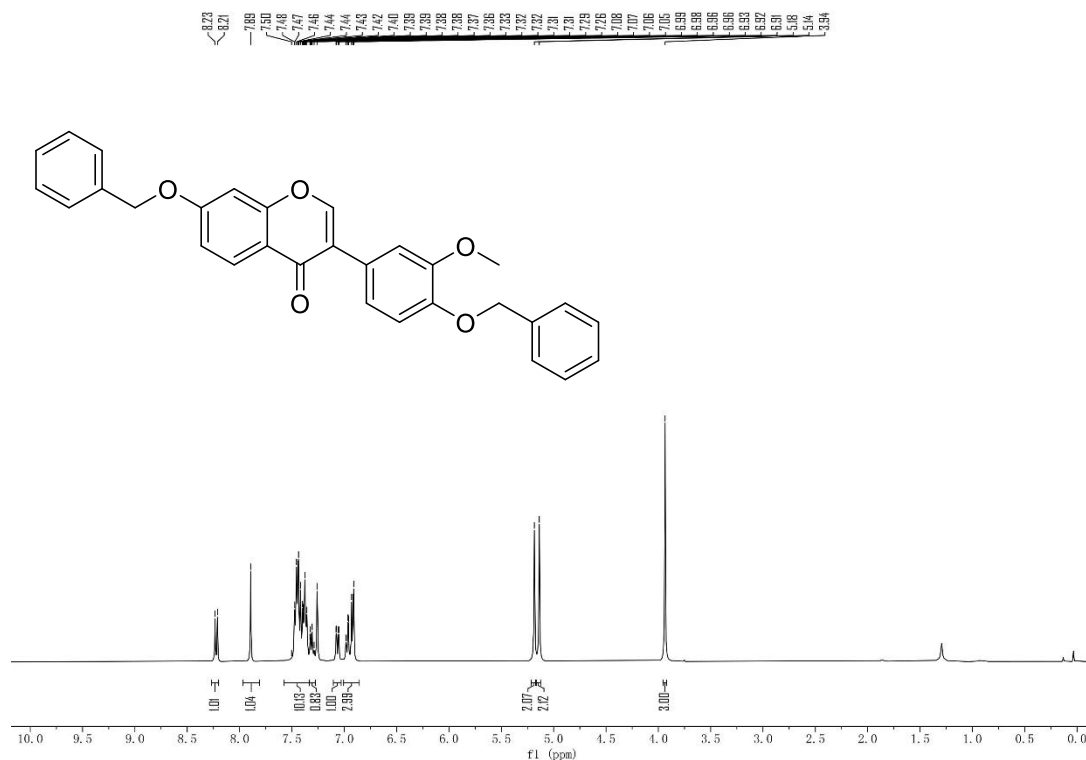
Figures S6 <sup>13</sup>C NMR spectrum of compound 9



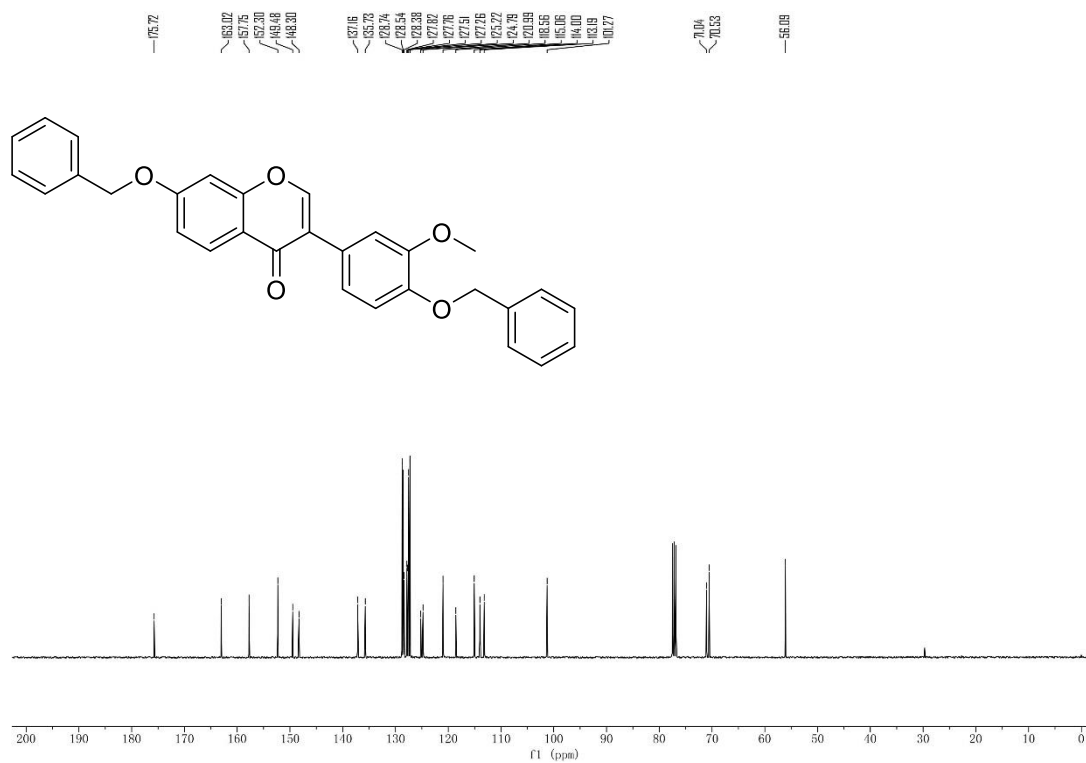
Figures S7  $^1\text{H}$  NMR spectrum of compound 6



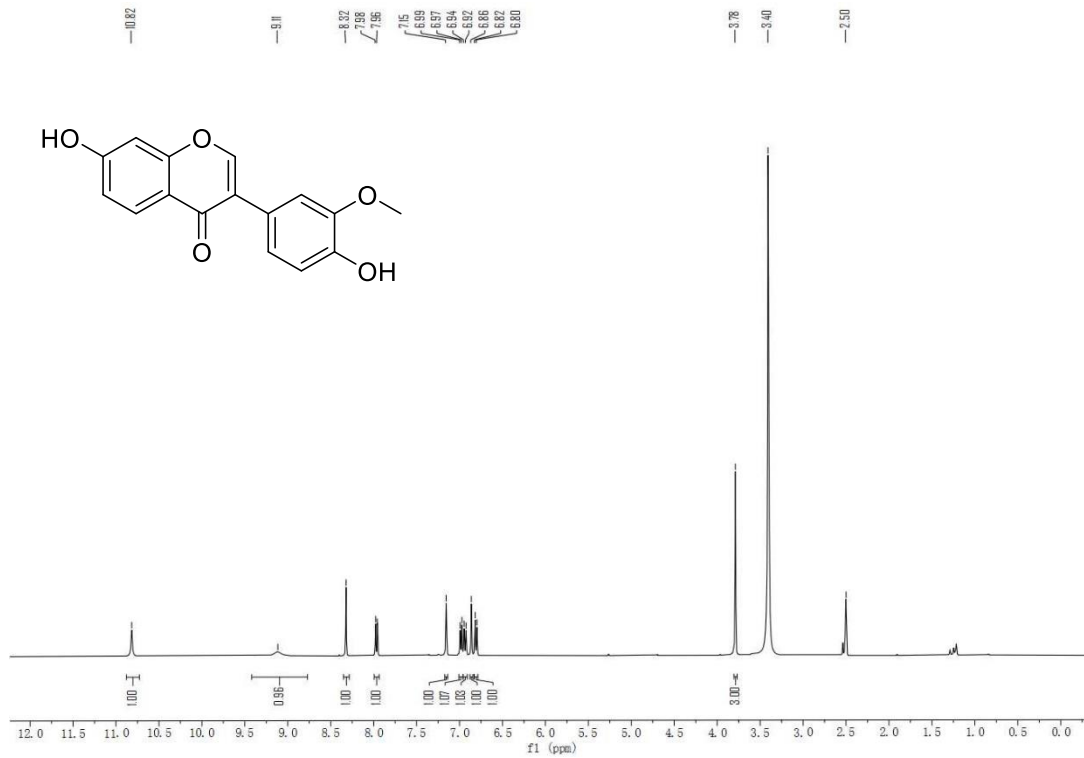
Figures S8  $^{13}\text{C}$  NMR spectrum of compound 6



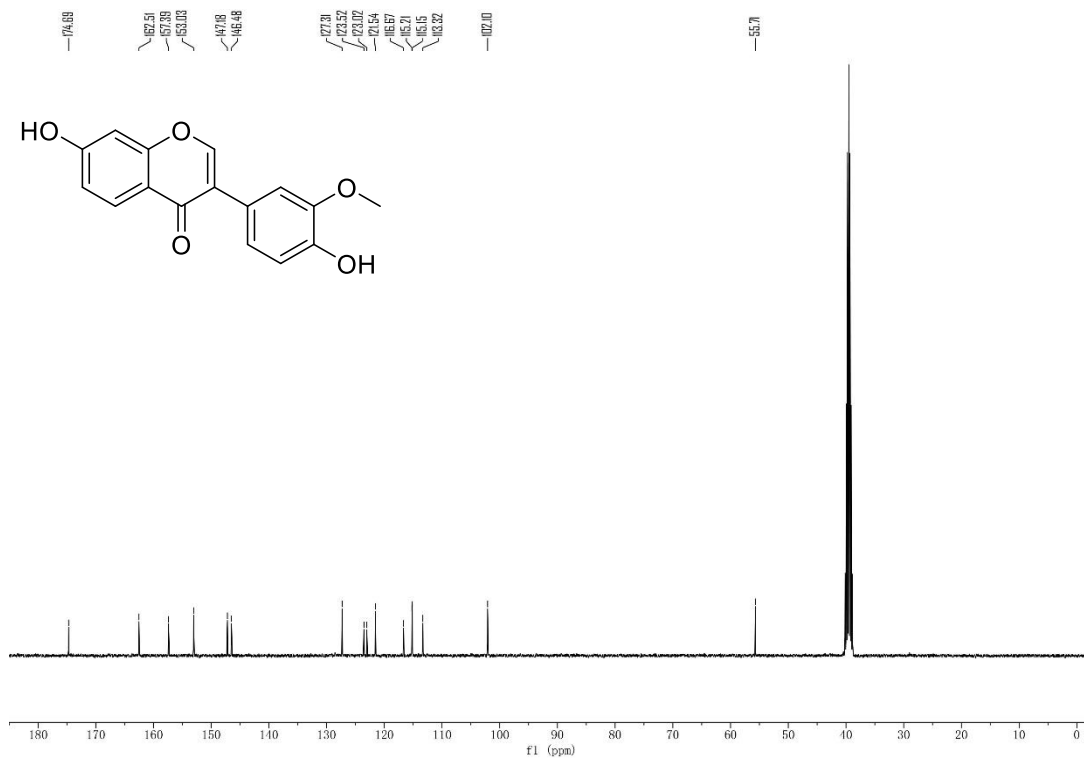
Figures S9 <sup>1</sup>H NMR spectrum of compound **3a**



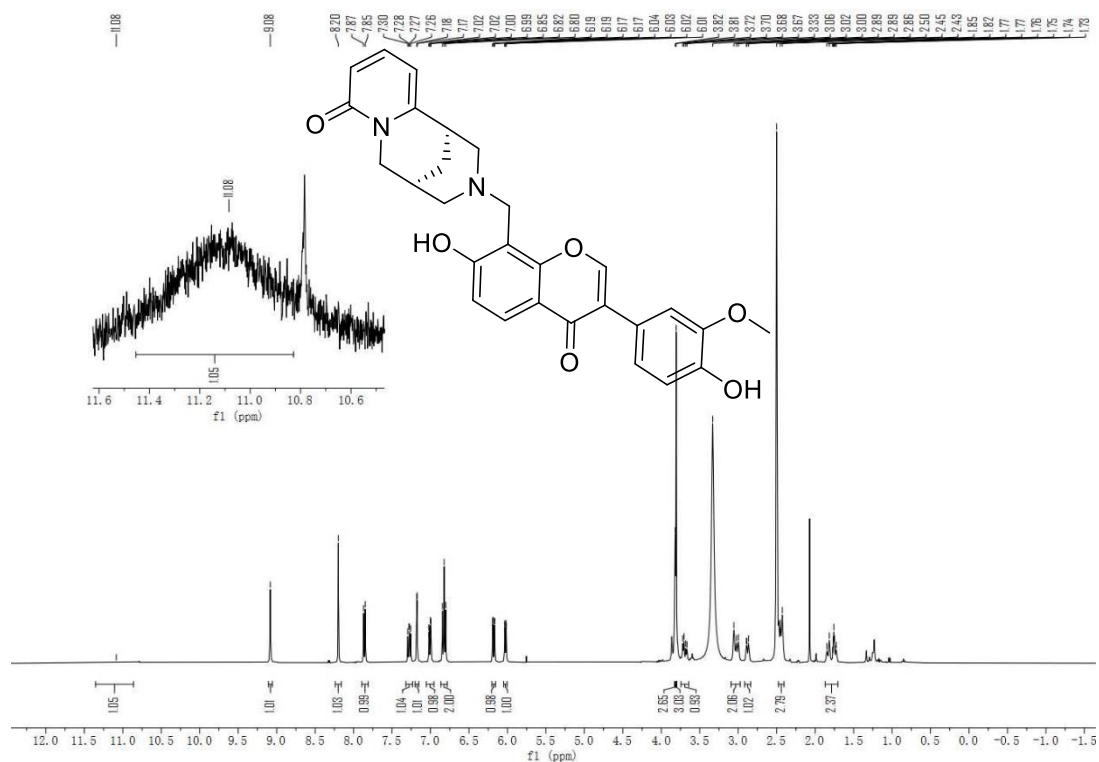
Figures S10 <sup>13</sup>C NMR spectrum of compound **3a**



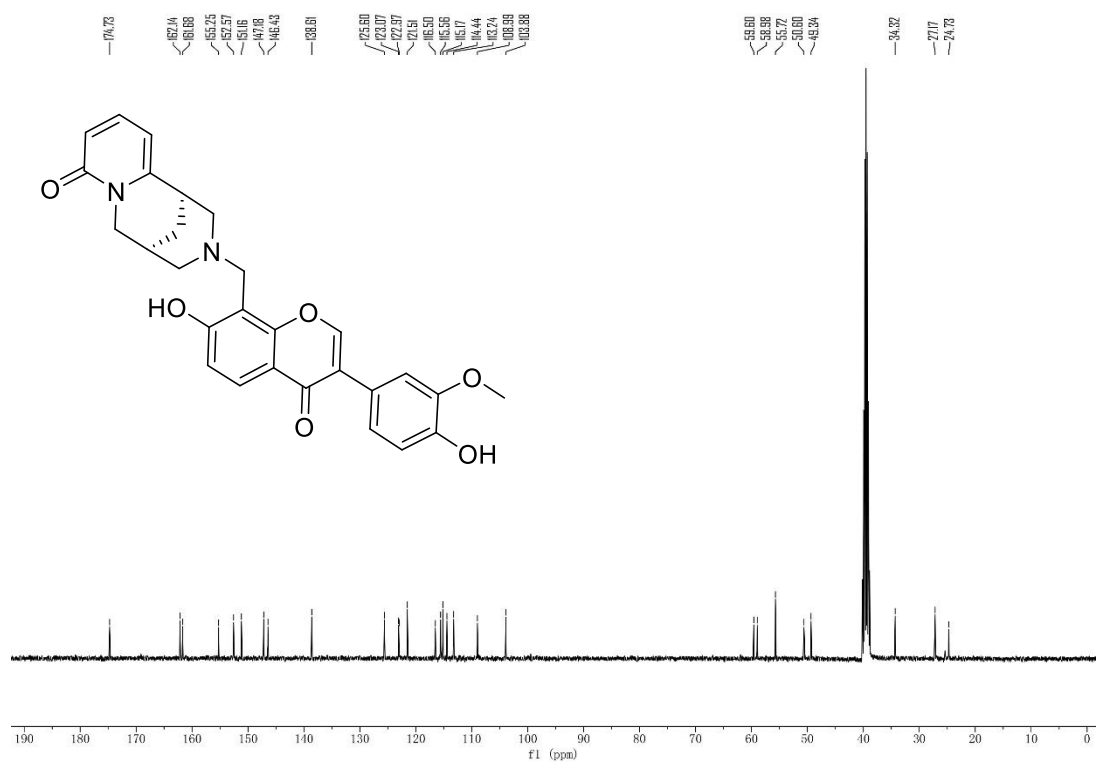
Figures S11 <sup>1</sup>H NMR spectrum of compound 2



Figures S12 <sup>13</sup>C NMR spectrum of compound 2



Figures S13  $^1\text{H}$  NMR spectrum of compound 1



Figures S14  $^{13}\text{C}$  NMR spectrum of compound 1