

# Supplementary Information

## Lycopodium Alkaloids from *Palhinhaea cernua*

Fu-Wei Zhao,<sup>a,b</sup> Qian-Yun Sun,<sup>c</sup> Fu-Mei Yang,<sup>c</sup> Ji-Feng Luo,<sup>a</sup> Guang-Wan Hu,<sup>a</sup> Fang Liu,<sup>d</sup> Yue-Hu Wang<sup>\*,a</sup> and Chun-Lin Long<sup>\*,a,e</sup>

<sup>a</sup>Key Laboratory of Economic Plants and Biotechnology, Kunming Institute of Botany, Chinese Academy of Sciences, Kunming 650201, People's Republic of China

<sup>b</sup>Graduate University of Chinese Academy of Sciences, Beijing 100049, People's Republic of China

<sup>c</sup>Key Laboratory of Chemistry for Natural Products, Guizhou Province and Chinese Academy of Sciences, Guiyang 550002, People's Republic of China

<sup>d</sup>College of Landscape and Horticulture, Yunnan Agricultural University, Kunming 650201, People's Republic of China

<sup>e</sup>College of Life and Environmental Sciences, Minzu University of China, Beijing 100081, People's Republic of China

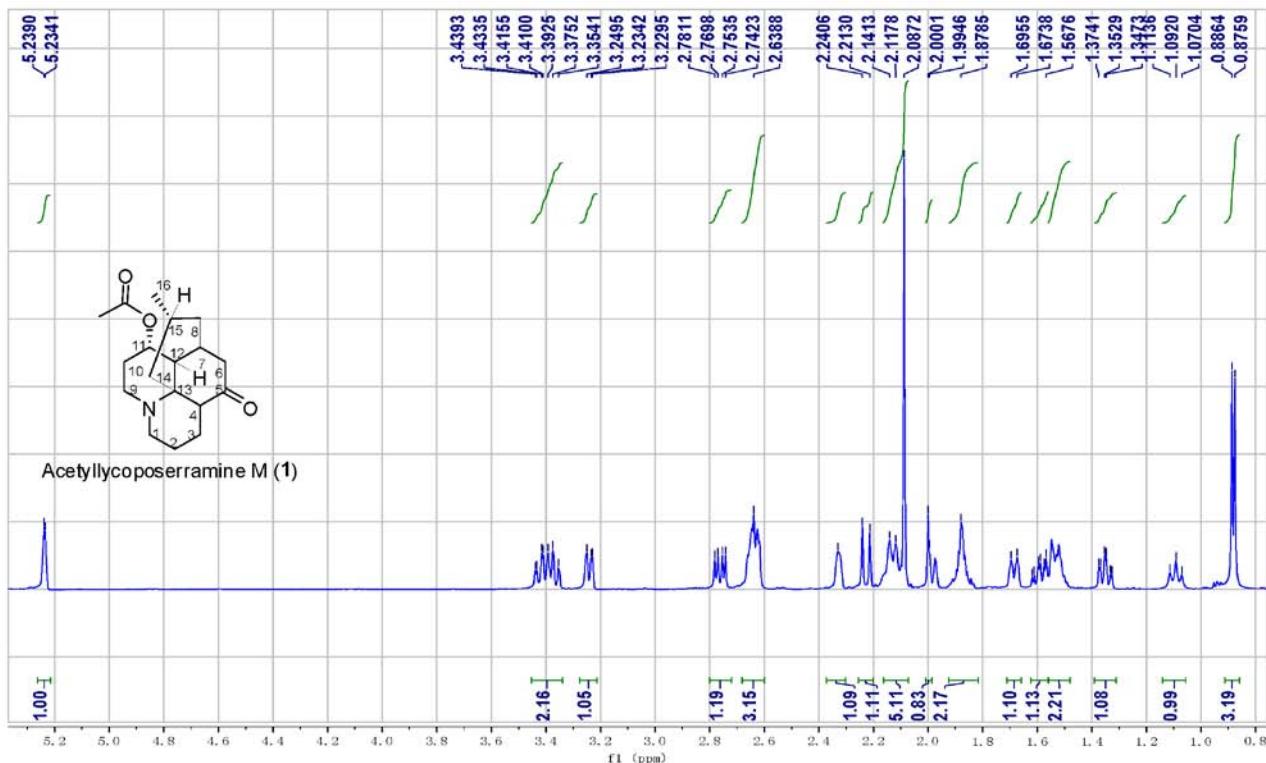
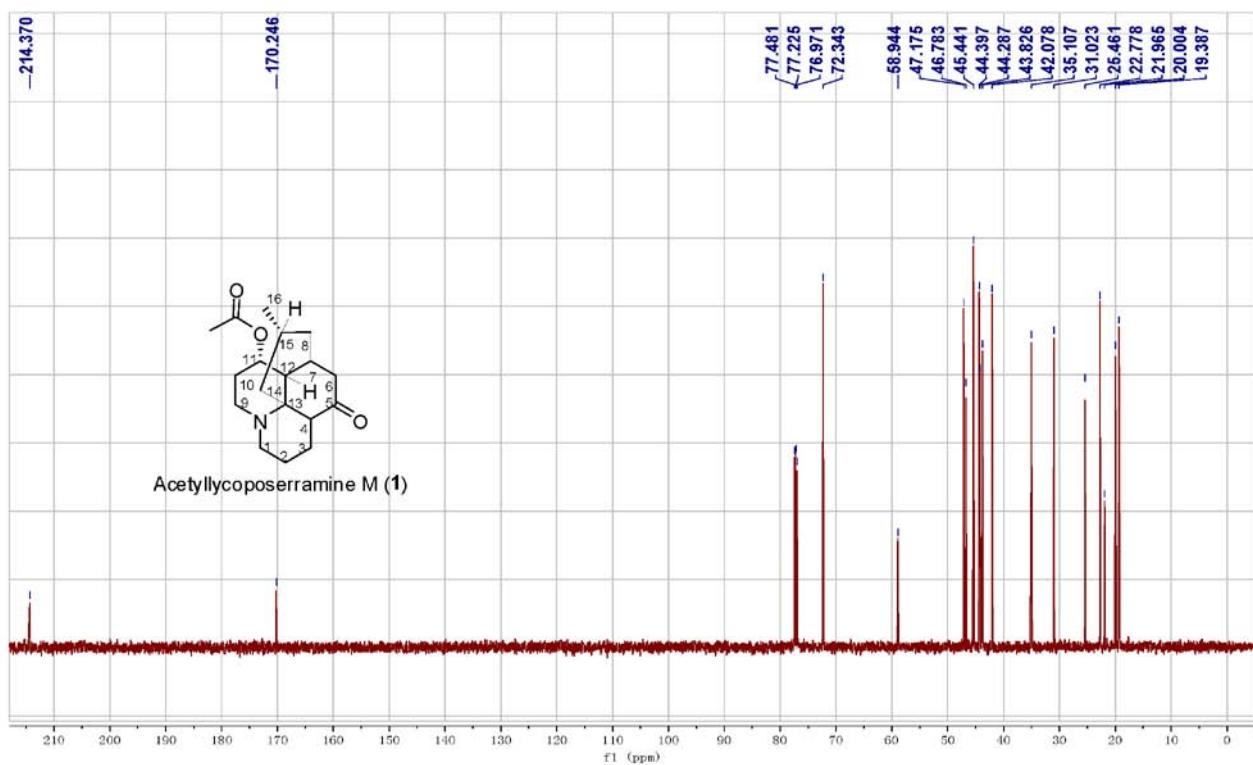
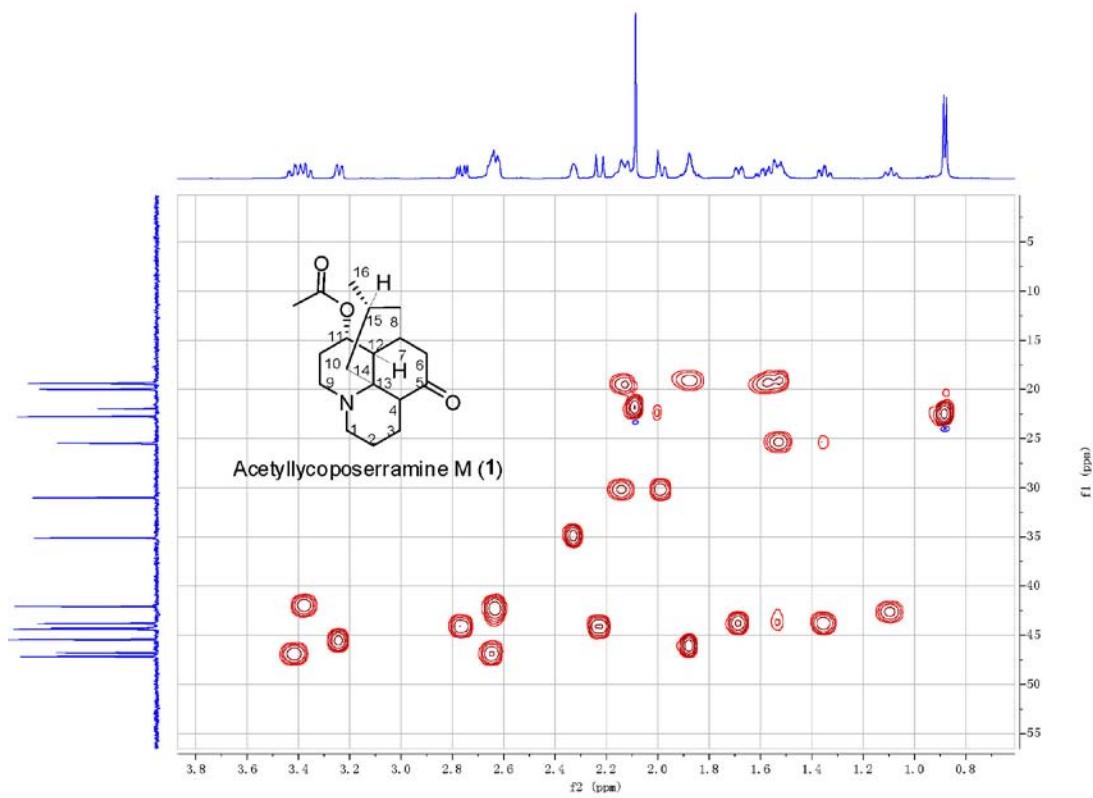


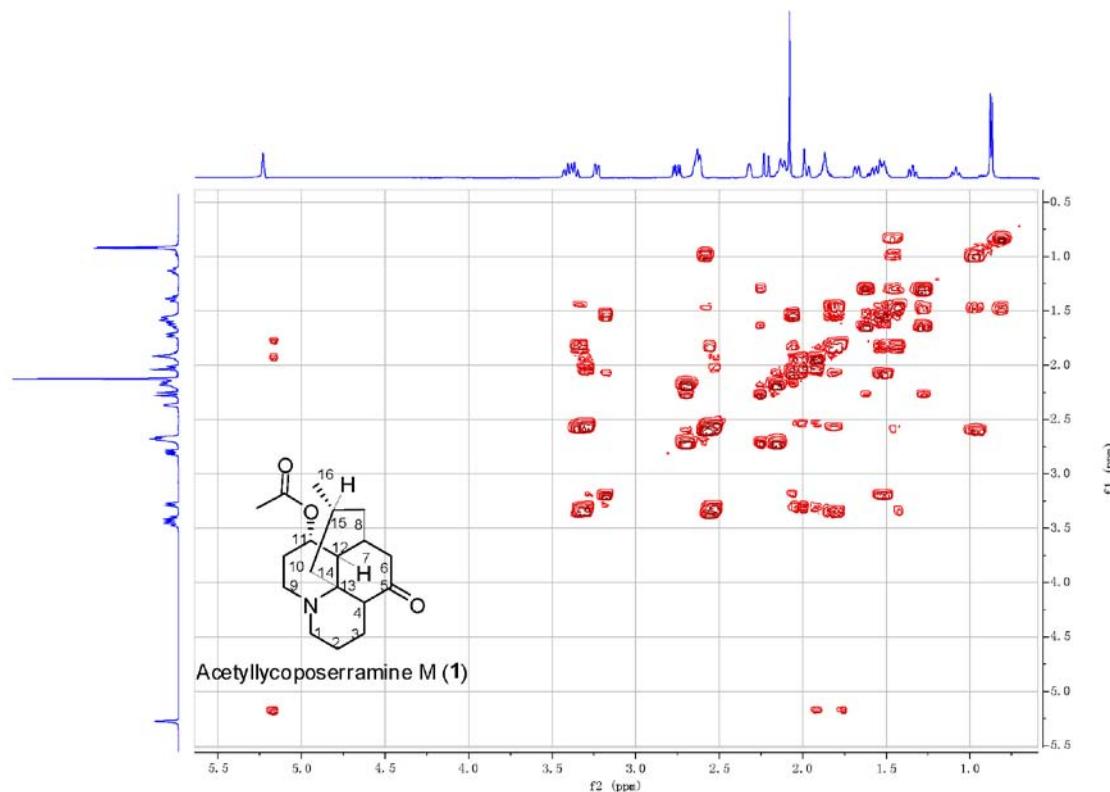
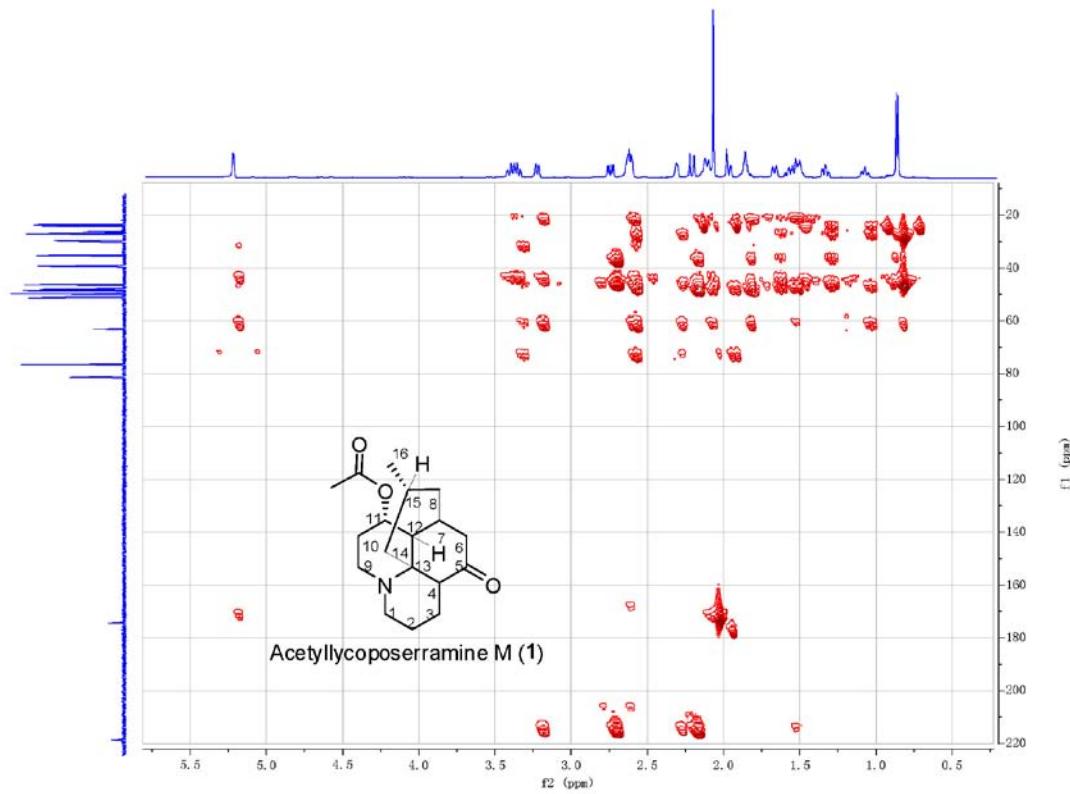
Figure S1. <sup>1</sup>H NMR spectrum of **1**.

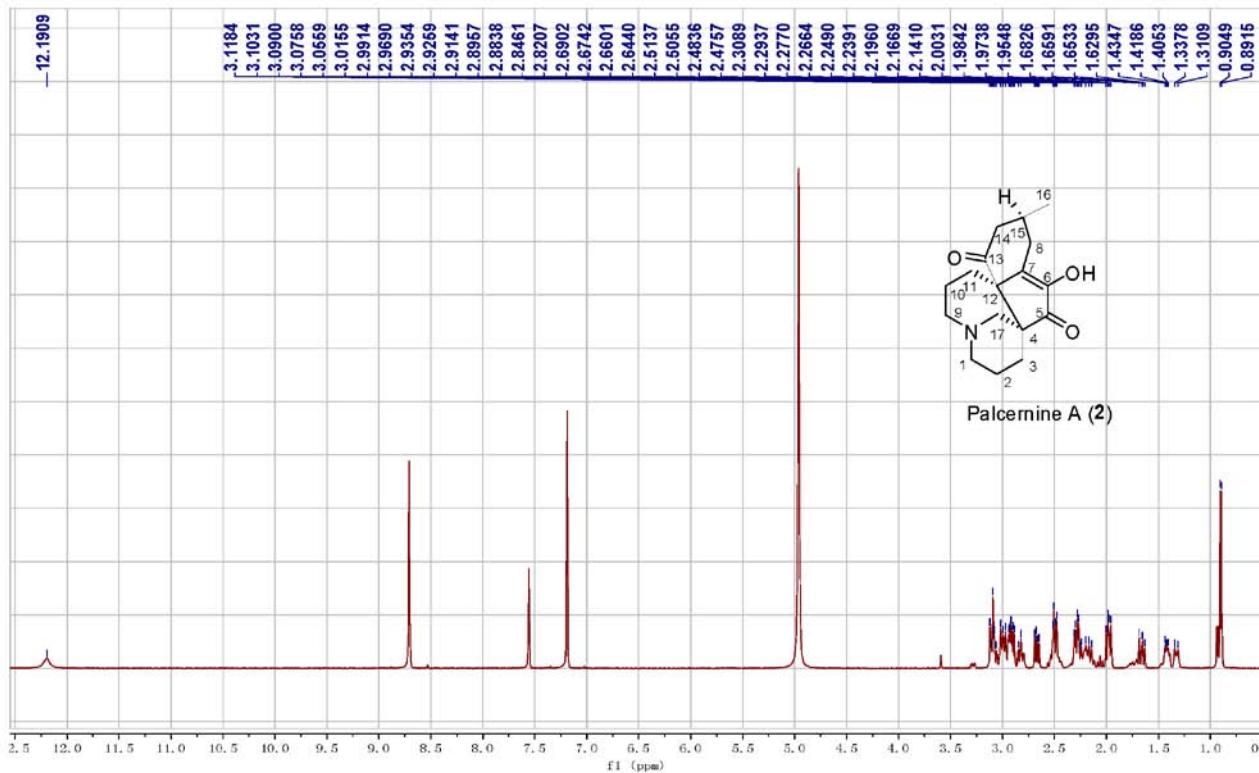


**Figure S2.**  $^{13}\text{C}$  NMR spectrum of **1**.

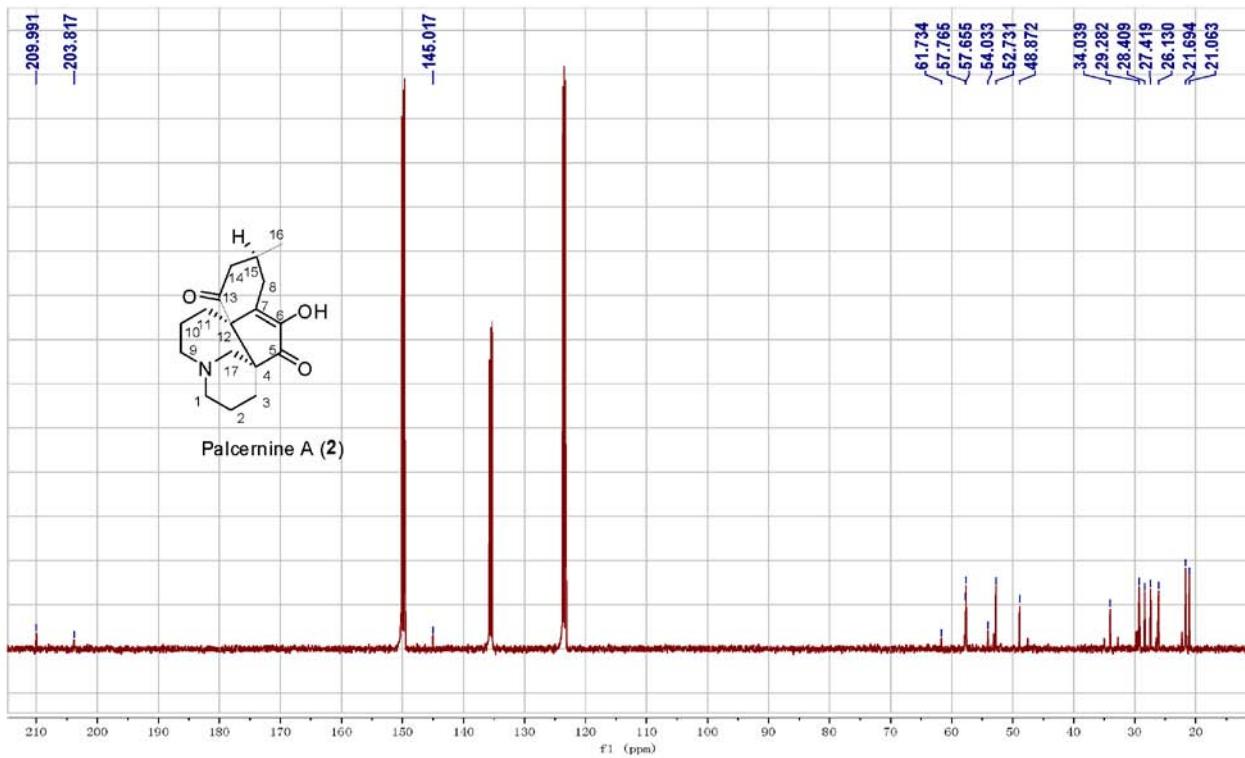


**Figure S3.** HSQC spectrum of **1**.

**Figure S4.** <sup>1</sup>H-<sup>1</sup>H COSY spectrum of **1**.**Figure S5.** HMBC spectrum of **1**.



**Figure S6.** <sup>1</sup>H NMR spectrum of **2**.



**Figure S7.** <sup>13</sup>C NMR spectrum of **2**.

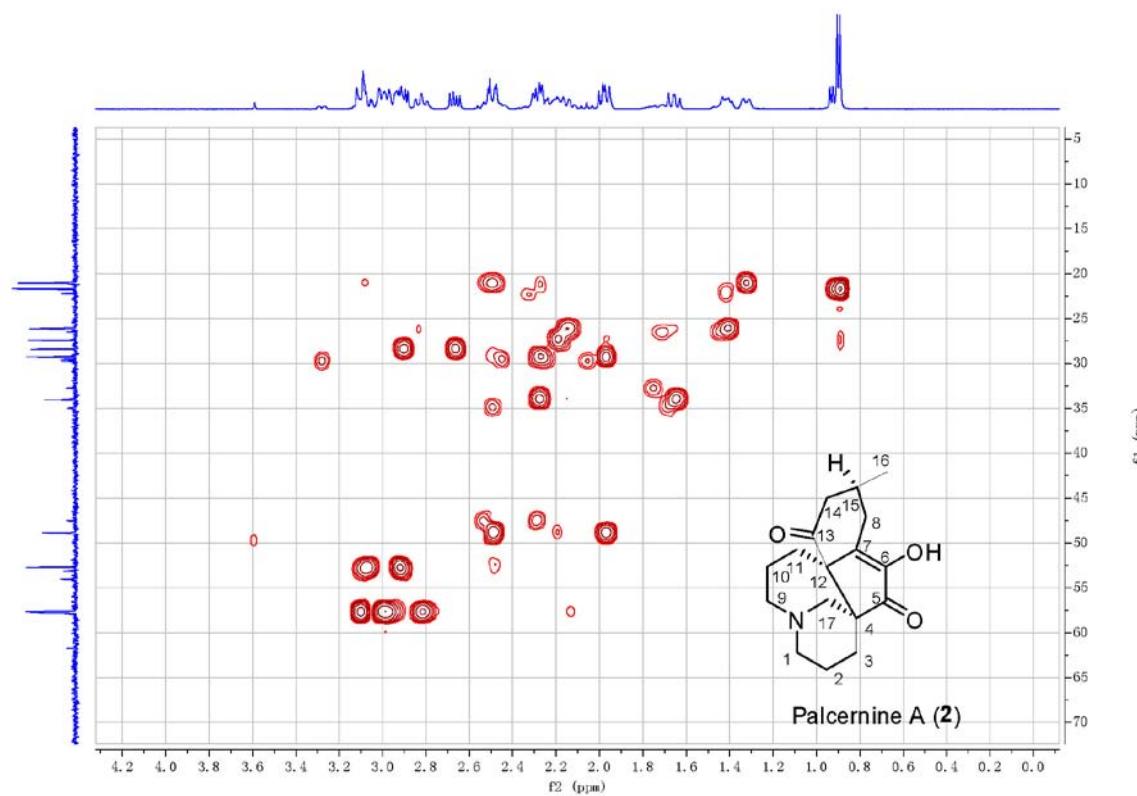


Figure S8. HSQC spectrum of **2**.

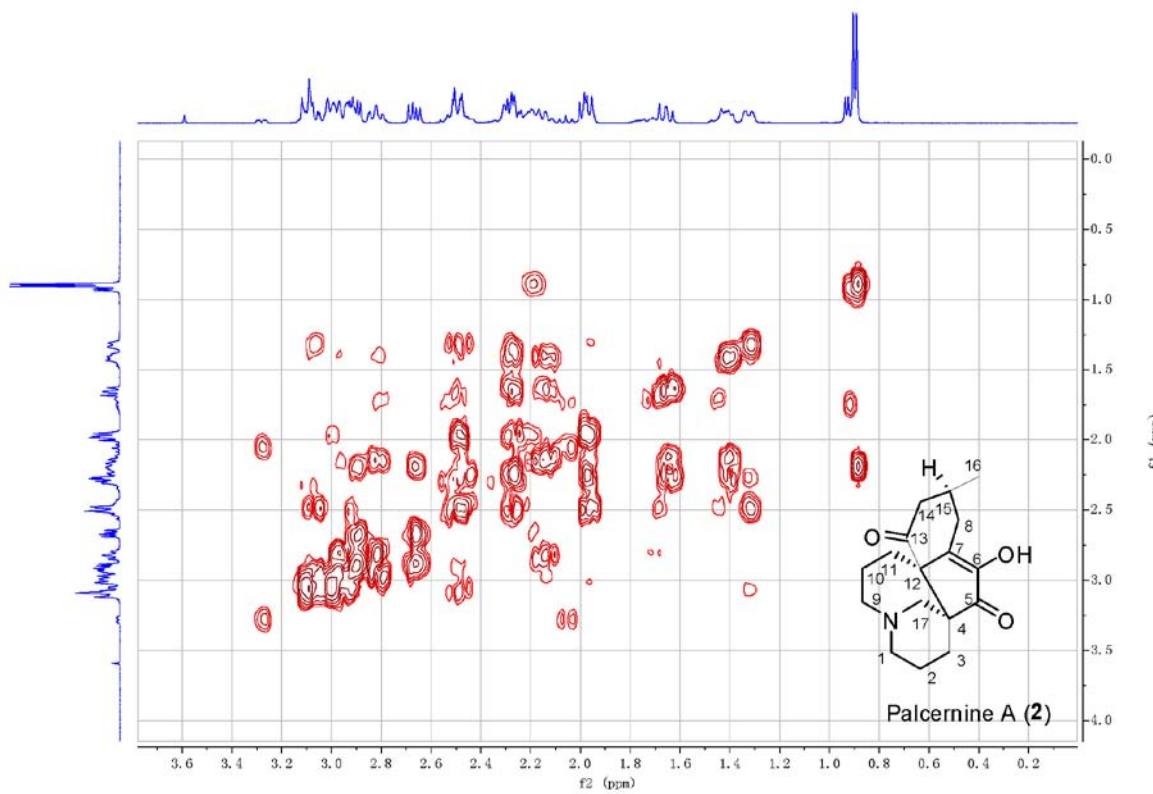
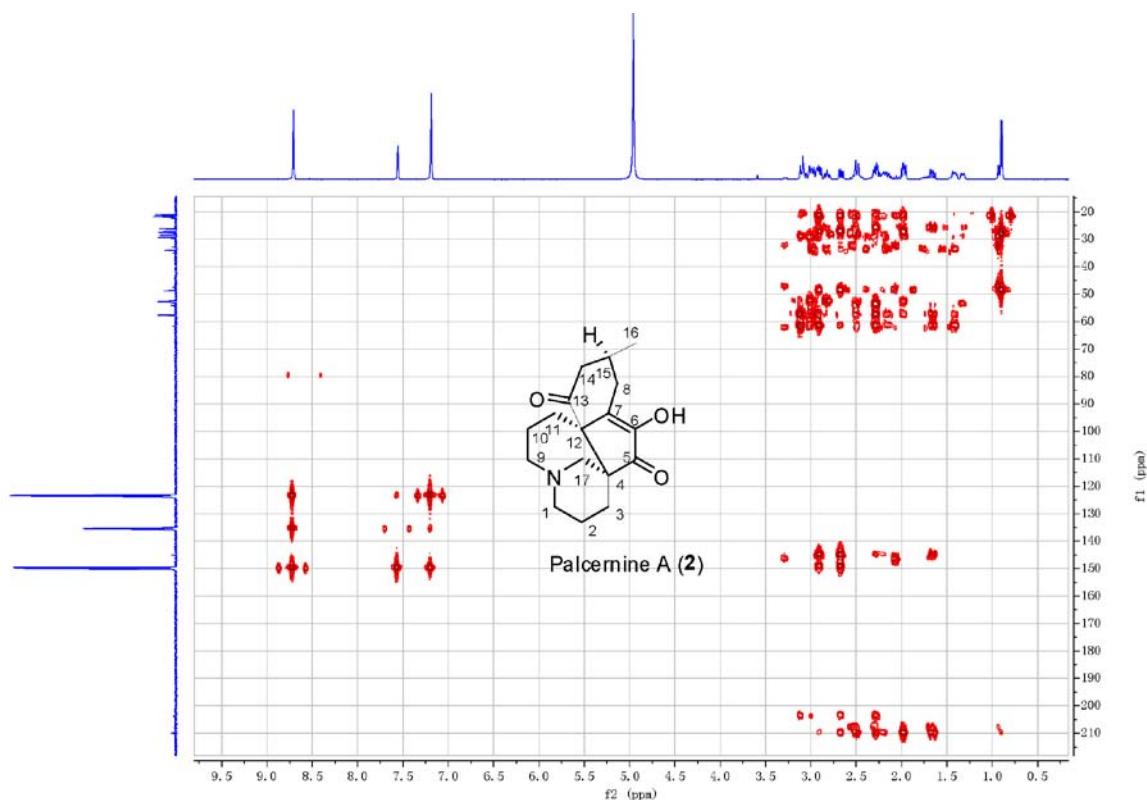
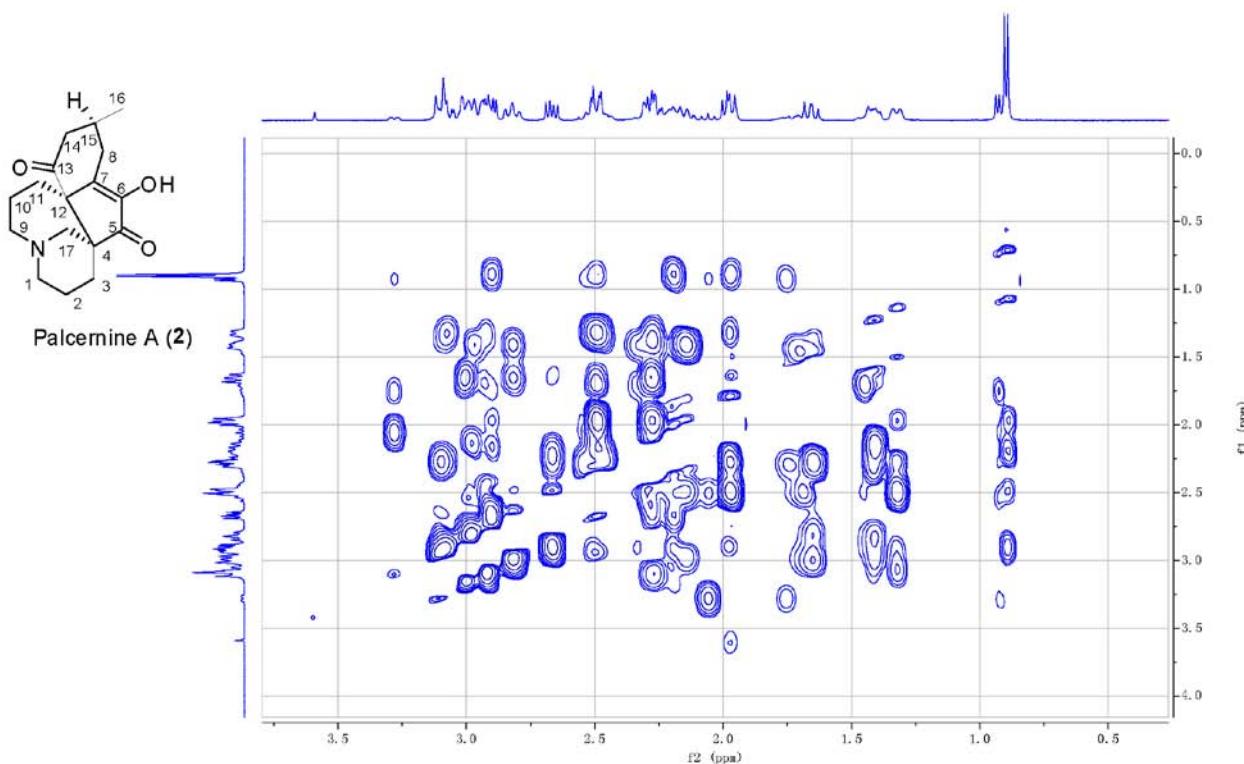


Figure S9. <sup>1</sup>H-<sup>1</sup>H COSY spectrum of **2**.



**Figure S10.** HMBC spectrum of **2**.



**Figure S11.** ROESY spectrum of **2**.