Supporting Information

Octahydro-Protoberberine and Protoemetine-Type Alkaloids from the Stems of *Alangium salviifolium* and Their Cytotoxicity

You-Sheng Cai,[*,†] Cong Wang,[‡] Congkui Tian,[¶] Wen-Ting Sun,[†] Ling Chen,[†] Di Xiao,[†] Si-Yuan Zhou,[†] Guofu Qiu,[†] Jianqing Yu[†], Kongkai Zhu,[*,§] and Sheng-Ping Yang[*,†]

[†]Institute of TCM and Natural Products, School of Pharmaceutical Sciences, Wuhan University, Wuhan 430071, People's Republic of China

[‡]Guangxi Key Laboratory of Chemistry and Engineering of Forest Products, Key Laboratory of Guangxi Colleges and Universities for Food Safety and Pharmaceutical Analytical Chemistry, School of Chemistry and Chemical Engineering, Guangxi University for Nationalities, Nanning 530006, People's Republic of China

[¶]Wuling Mountain Institute of Natural Medicine, Hubei Minzu University, Key Laboratory of Biological Resources Protection and Utilization of Hubei Province, Enshi 445000, People's Republic of China

[§]School of Biological Science and Technology, University of Jinan, Jinan 250022, People's Republic of China

cysh2002@whu.edu.cn (Y.-S. Cai)

bio_zhukk@ujn.edu.cn (K. Zhu)

sp-yang@126.com (S.-P. Yang)

List of Supporting Information

Figure S1 HRESIMS spectrum of **1.**

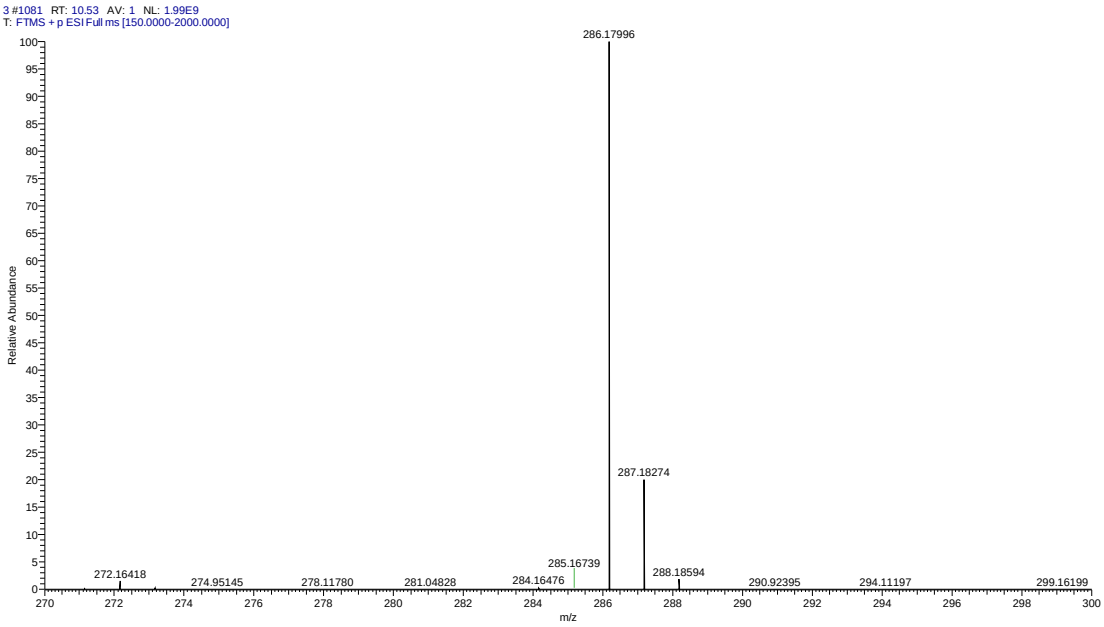

Figure S2 ^{1}H NMR spectrum of **1** (400 MHz, $CDCl_3$).

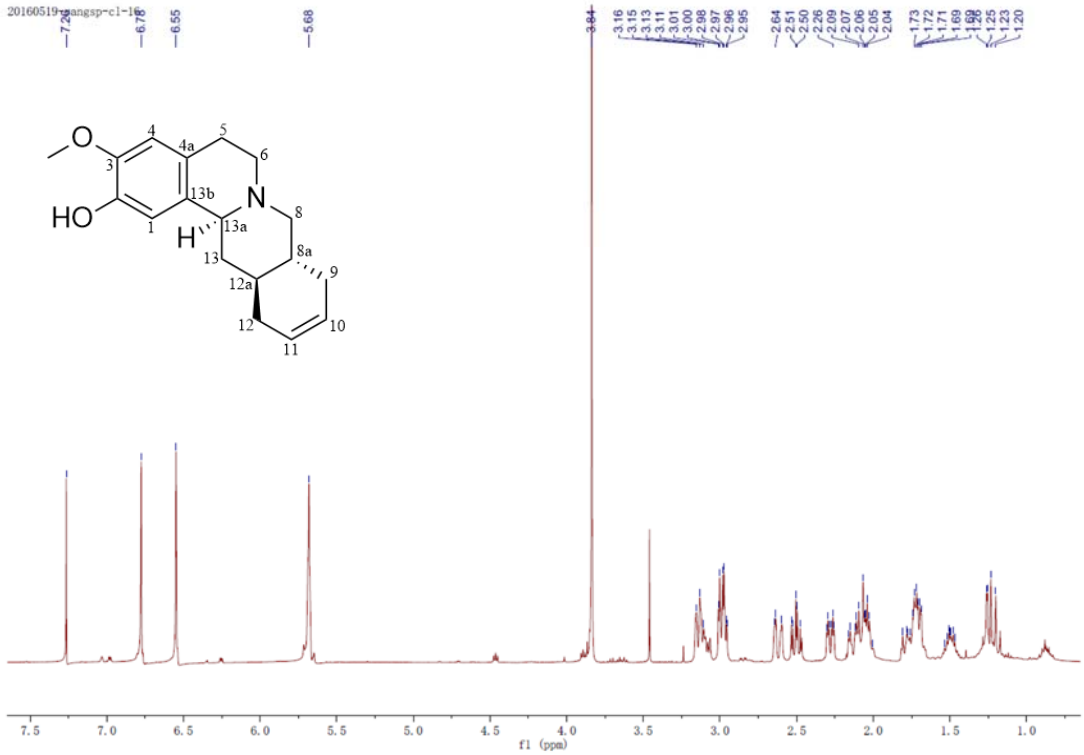

Figure S3 ^{13}C NMR spectrum of **1** (100 MHz, $CDCl_3$).

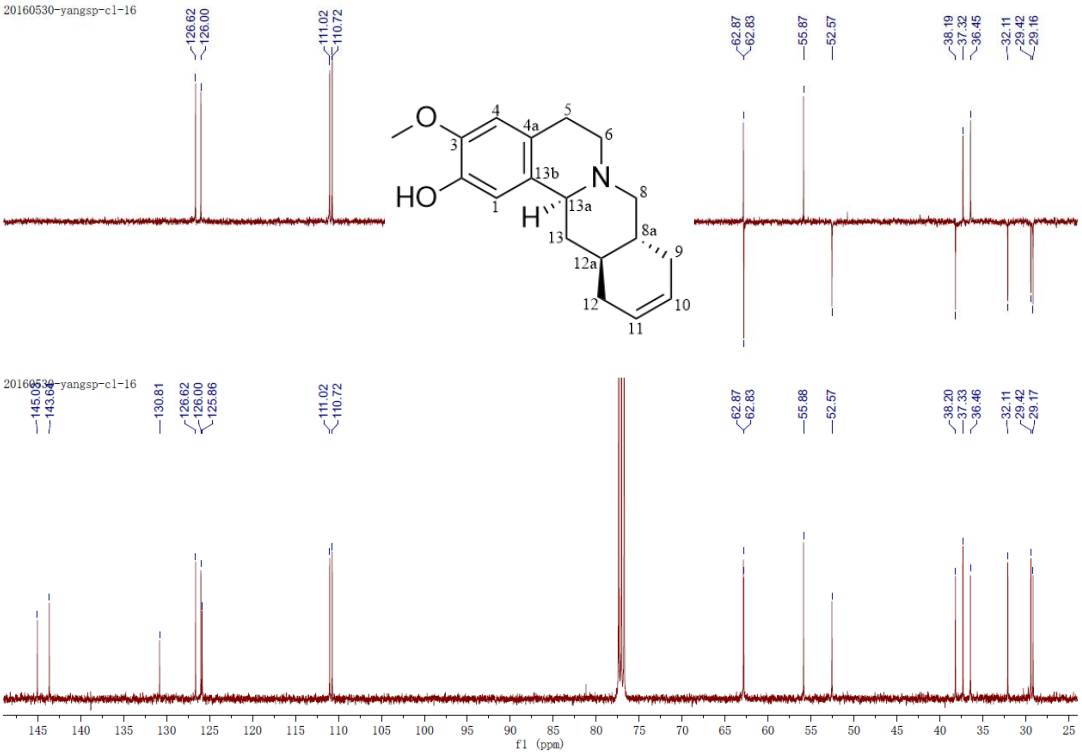

Figure S4 ^{1}H-^{1}H COSY spectrum of **1** (400 MHz, $CDCl_3$).

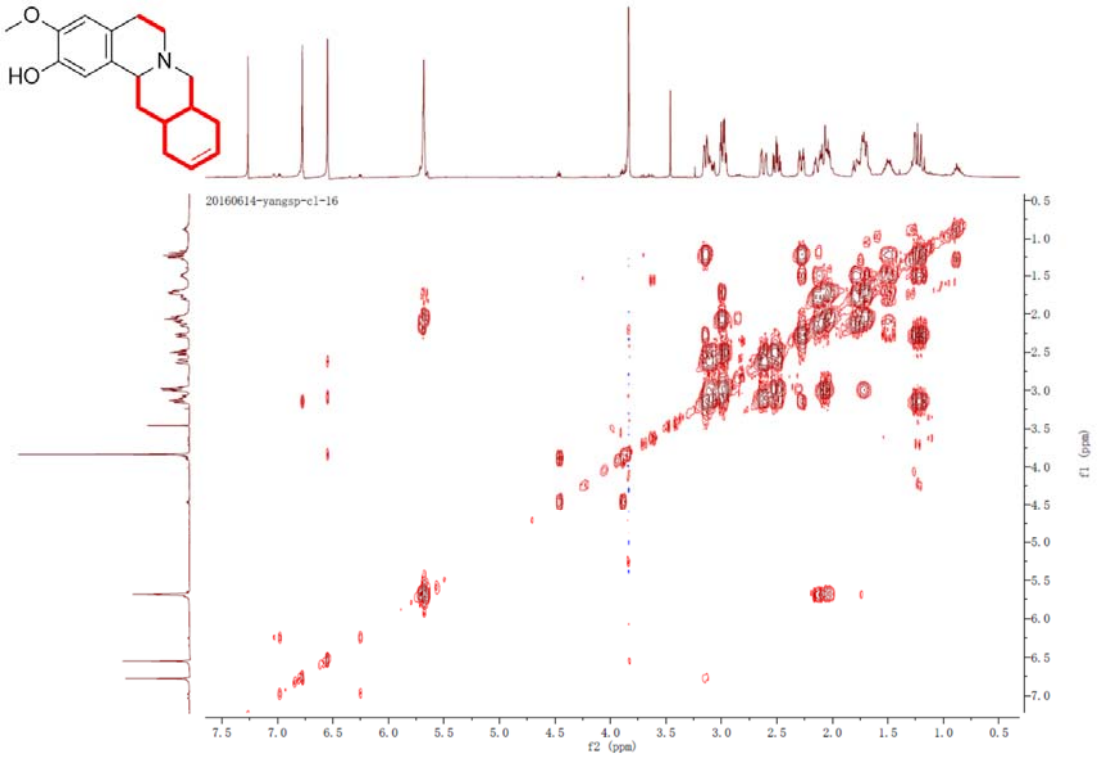

Figure S5 HSQC spectrum of **1** (400 MHz, $CDCl_3$).

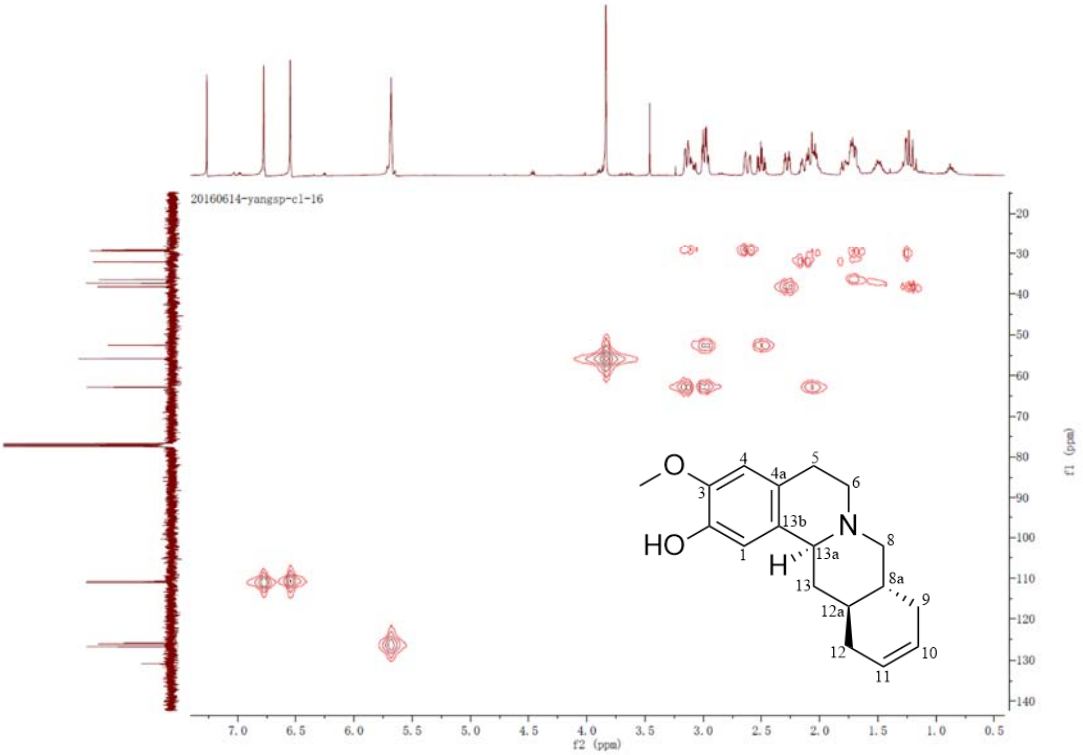

Figure S6 HMBC spectrum of **1** (400 MHz, $CDCl_3$).

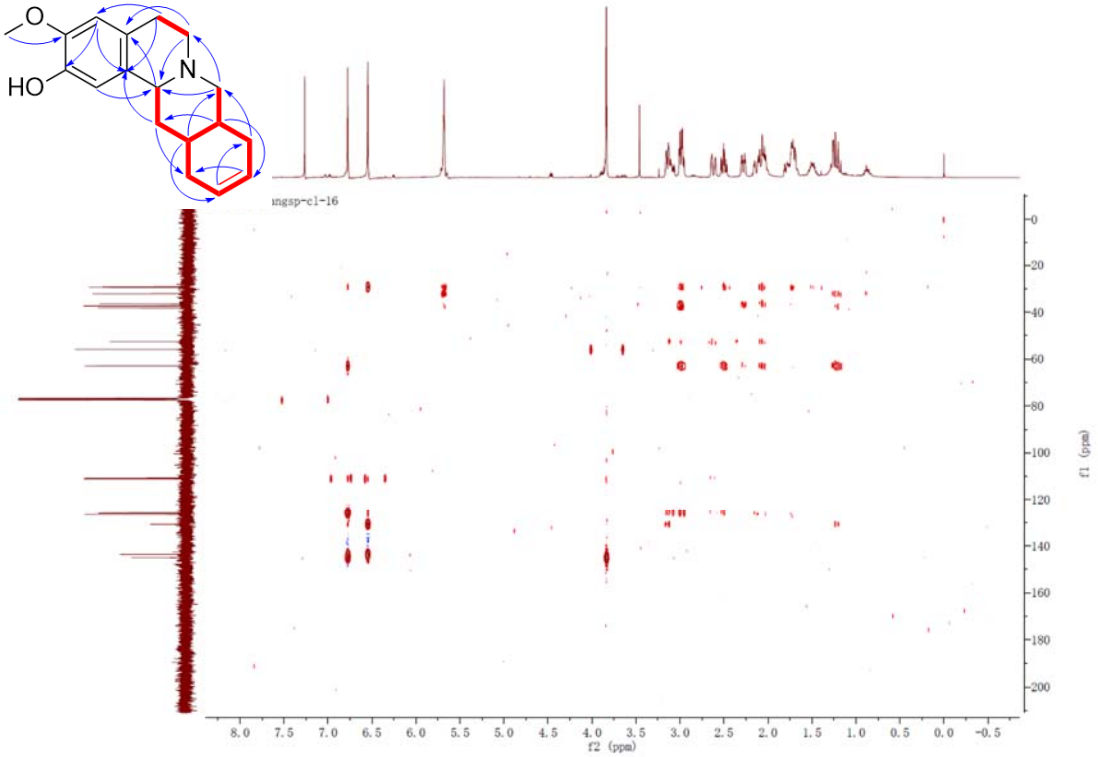

Figure S7 NOESY spectrum of **1** (400 MHz, $CDCl_3$).

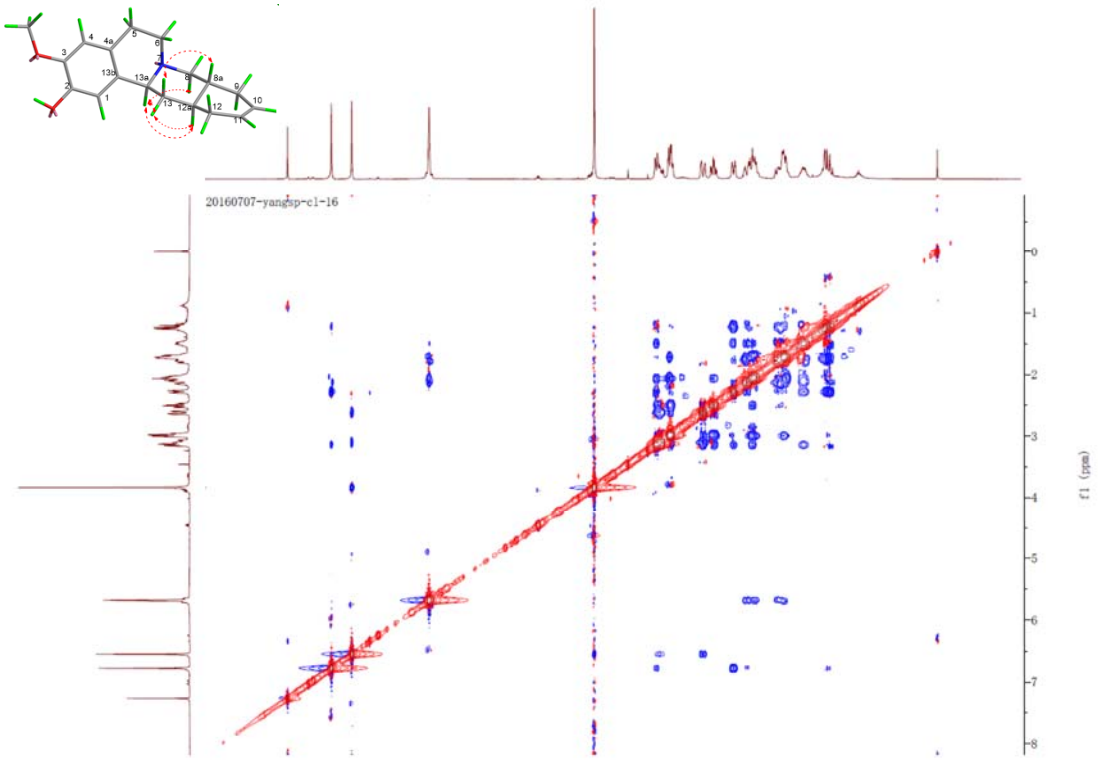

Figure S8 HRESIMS spectrum of **2.**

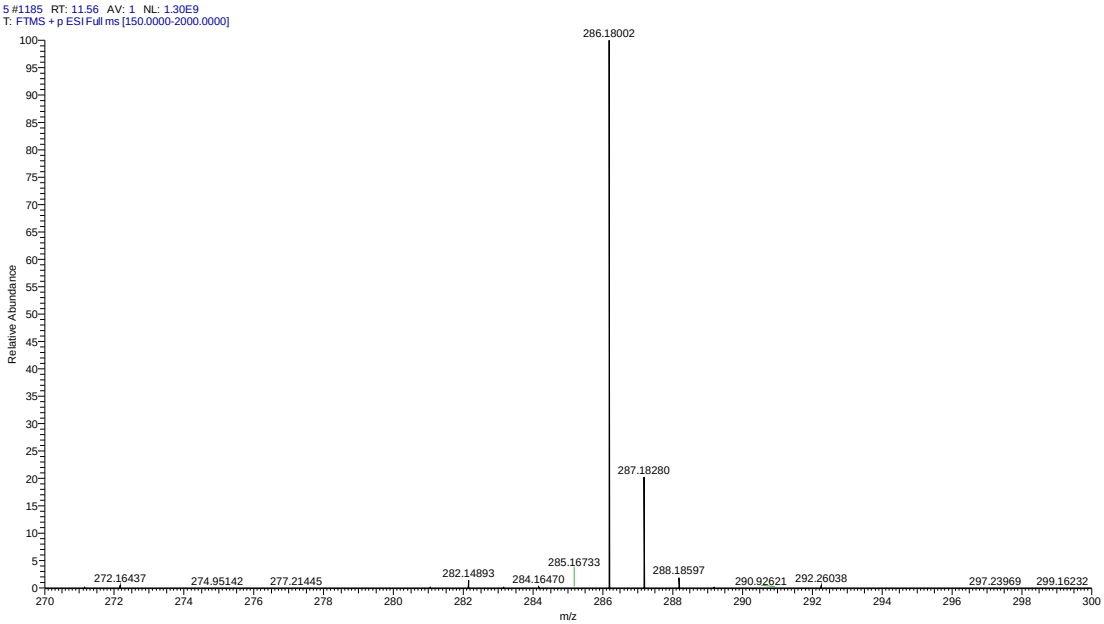

Figure S9 ^{1}H NMR spectrum of **2** (400 MHz, $CDCl_3$).

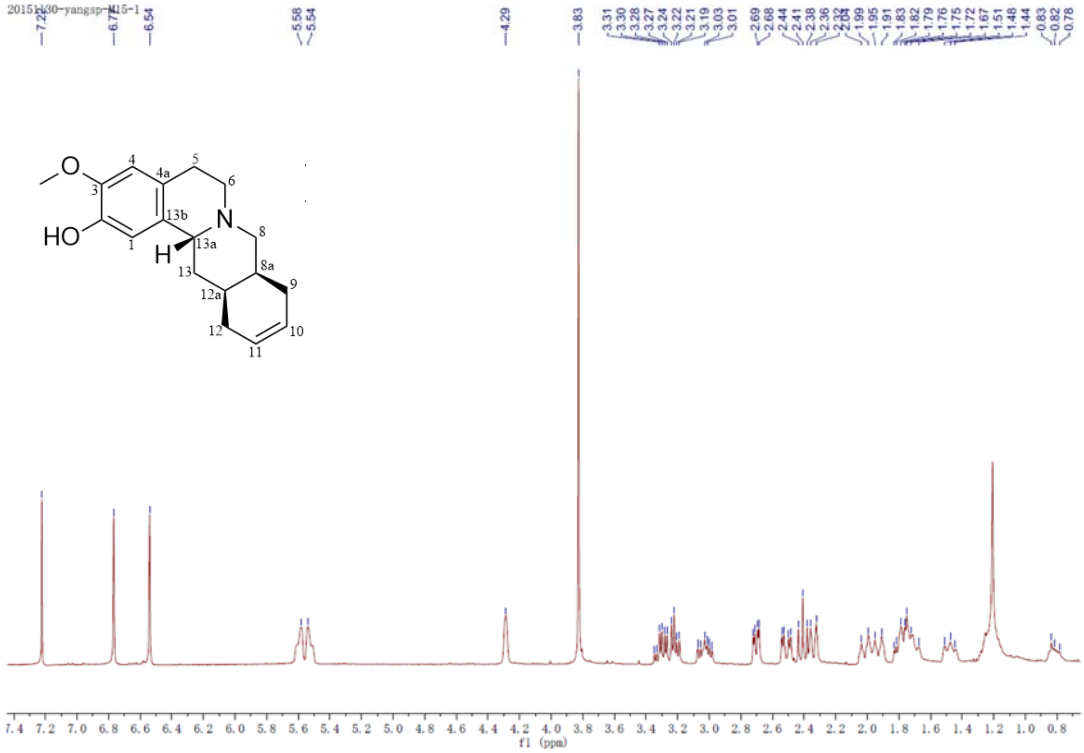

Figure S10 ^{13}C NMR spectrum of **2** (100 MHz, $CDCl_3$).

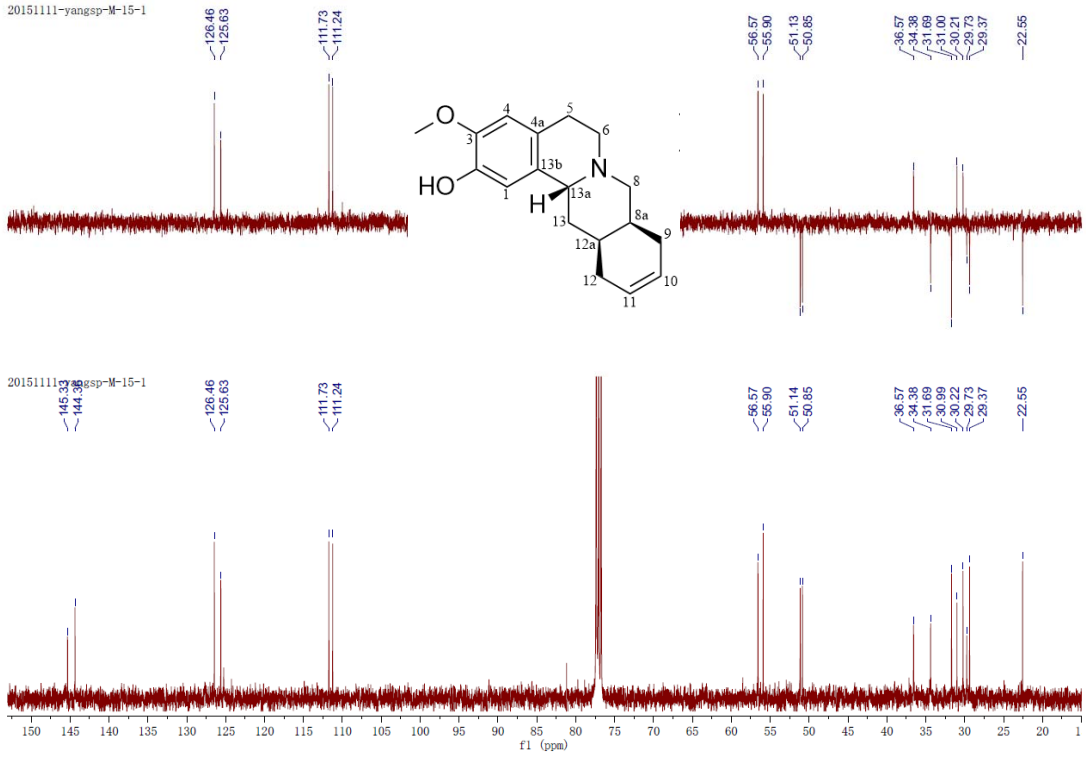

Figure S11 ^{1}H-^{1}H COSY spectrum of **2** (400 MHz, $CDCl_3$).

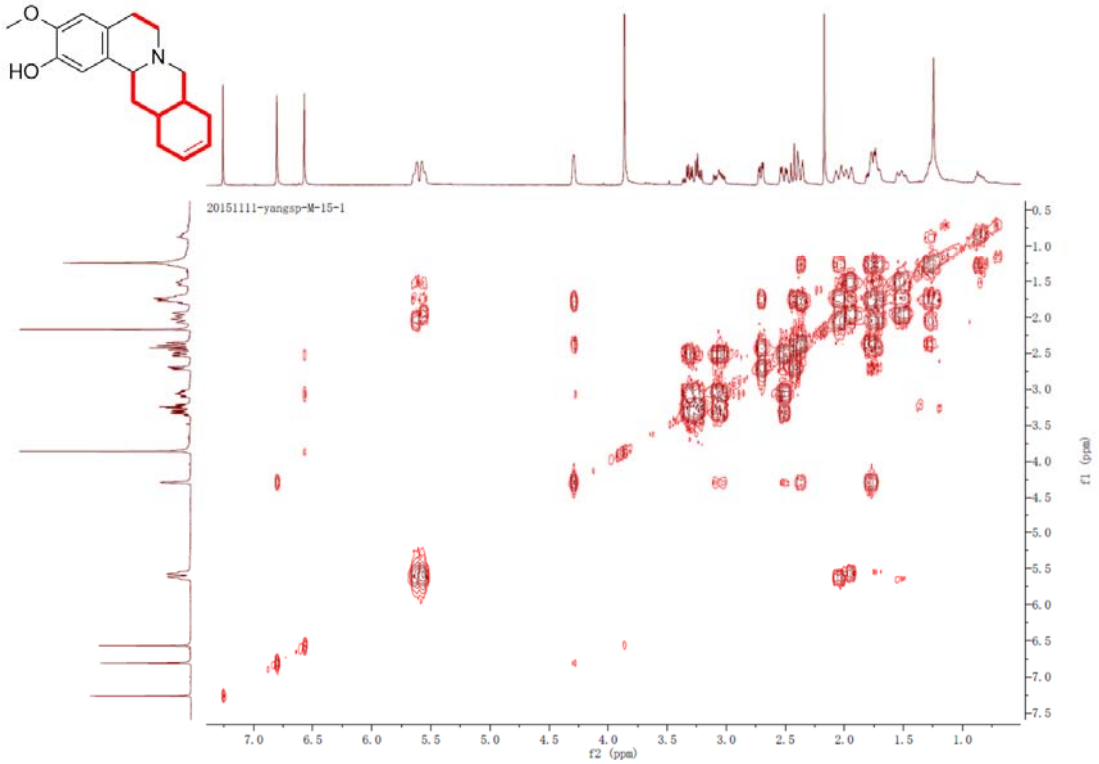

Figure S12 HSQC spectrum of **2** (400 MHz, $CDCl_3$).

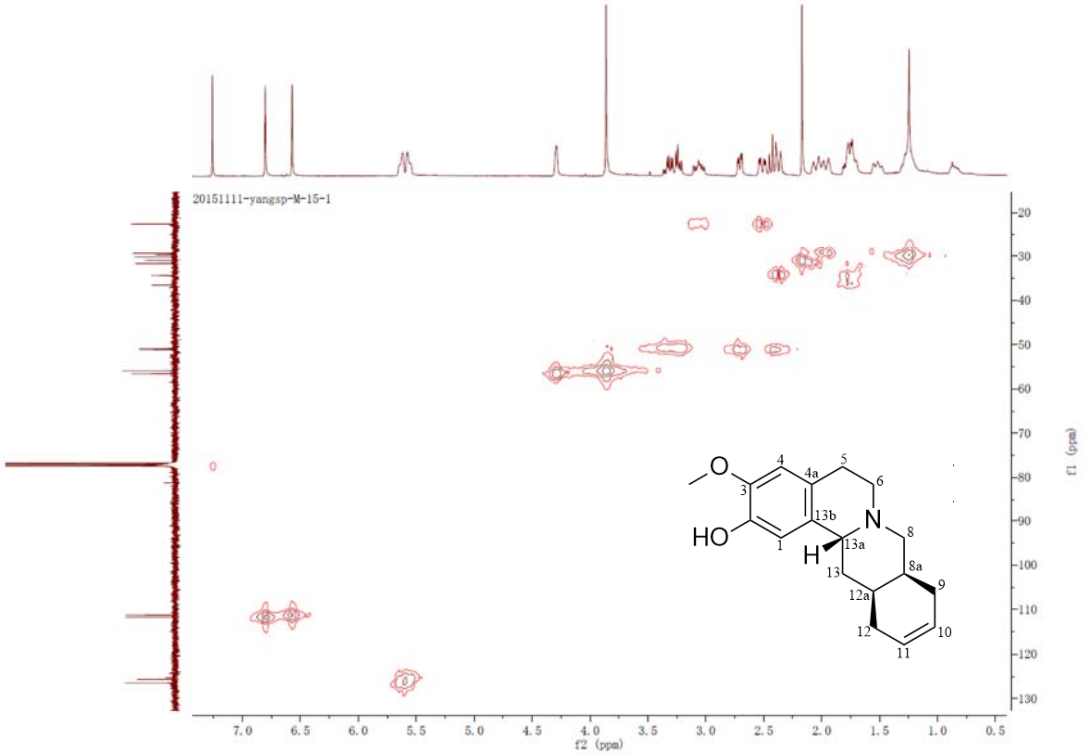

Figure S13 HMBC spectrum of **2** (400 MHz, $CDCl_3$).

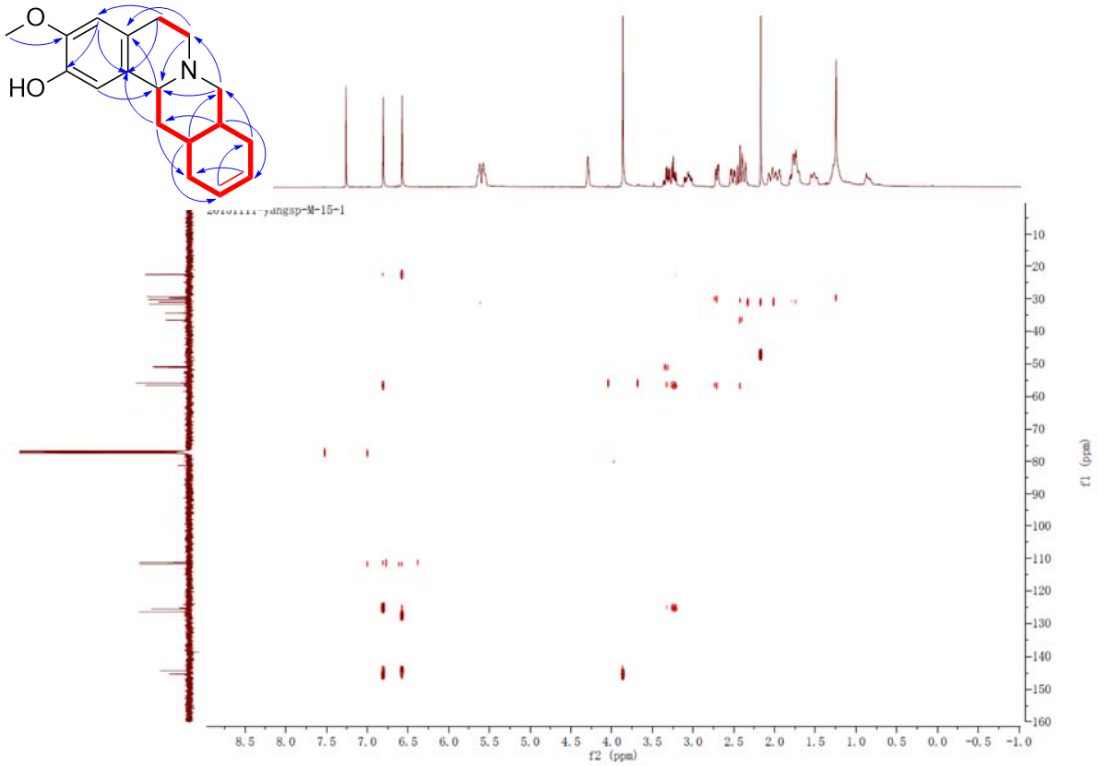

Figure S14 NOESY spectrum of **2** (400 MHz, $CDCl_3$).

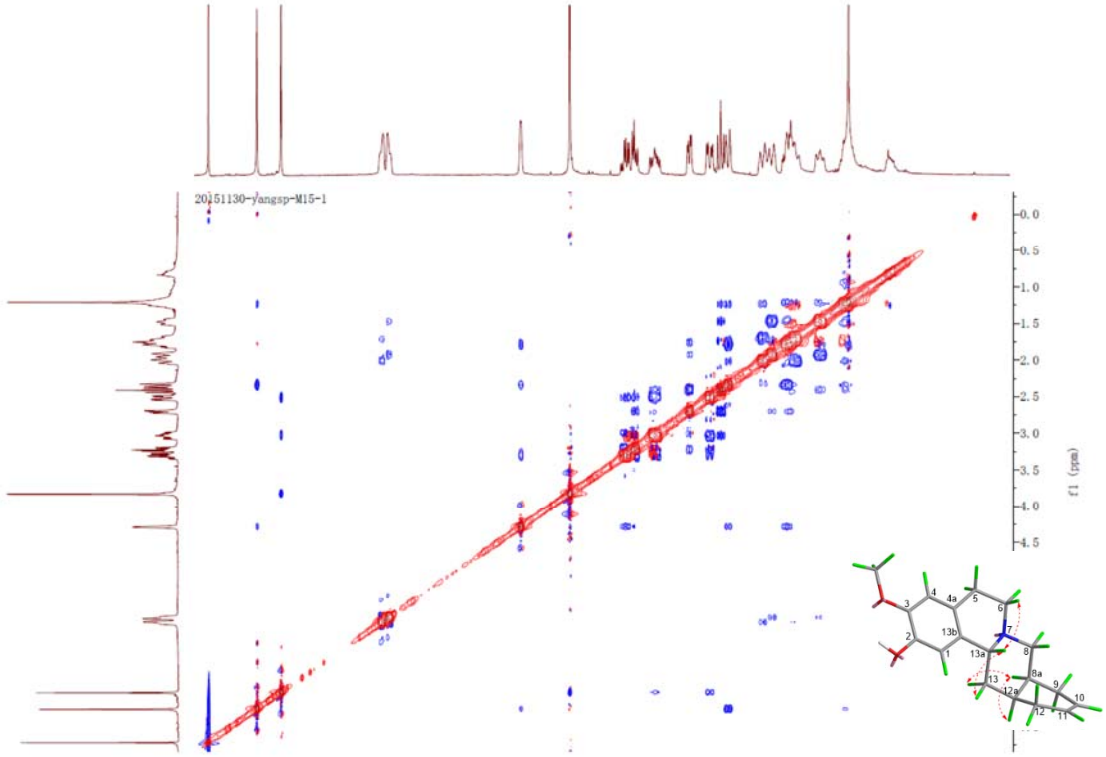

Figure S15 HRESIMS spectrum of **3.**

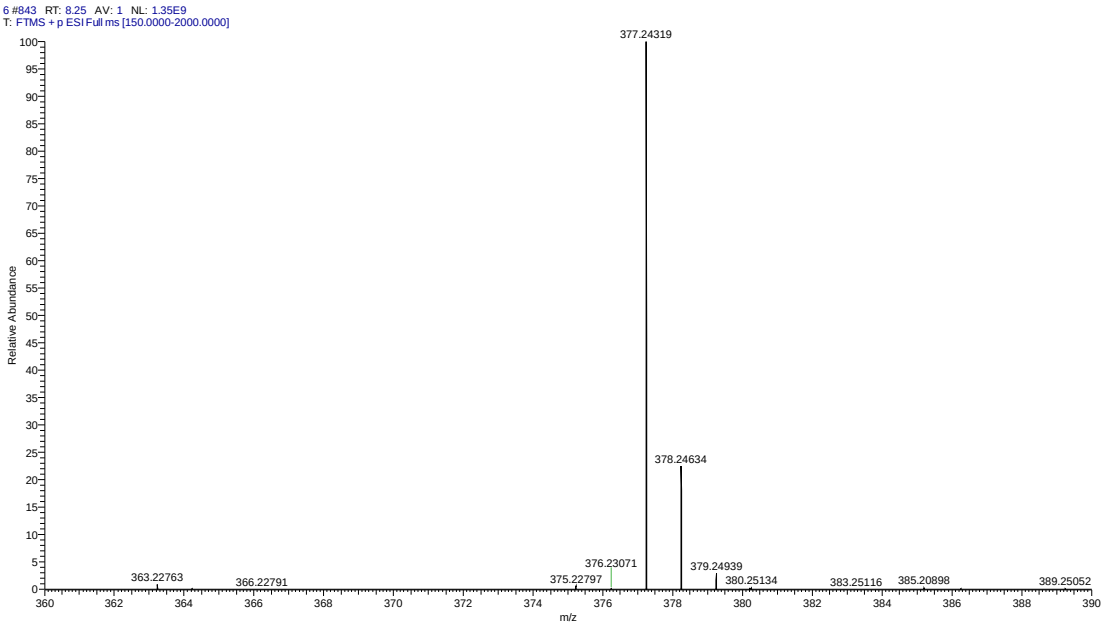

Figure S16 ^{1}H NMR spectrum of **3** (300 MHz, $CDCl_3$).

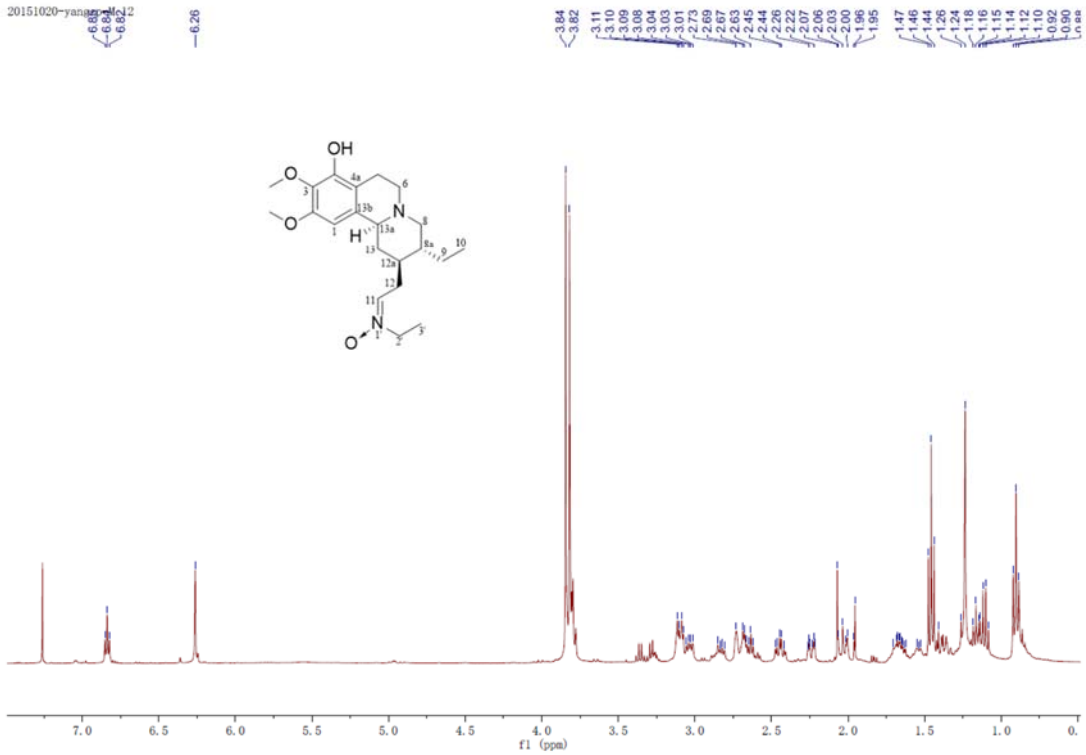

Figure S17 ^{13}C NMR spectrum of **3** (100 MHz, $CDCl_3$).

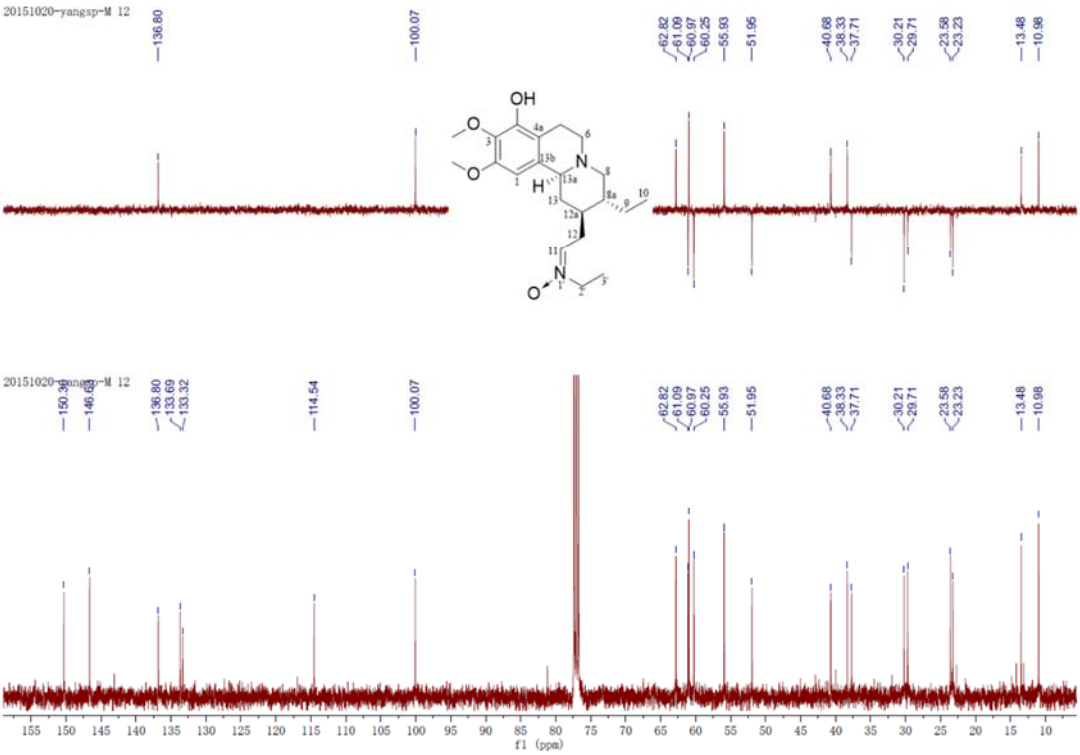

Figure S18 ^{1}H-^{1}H COSY spectrum of **3** (400 MHz, $CDCl_3$).

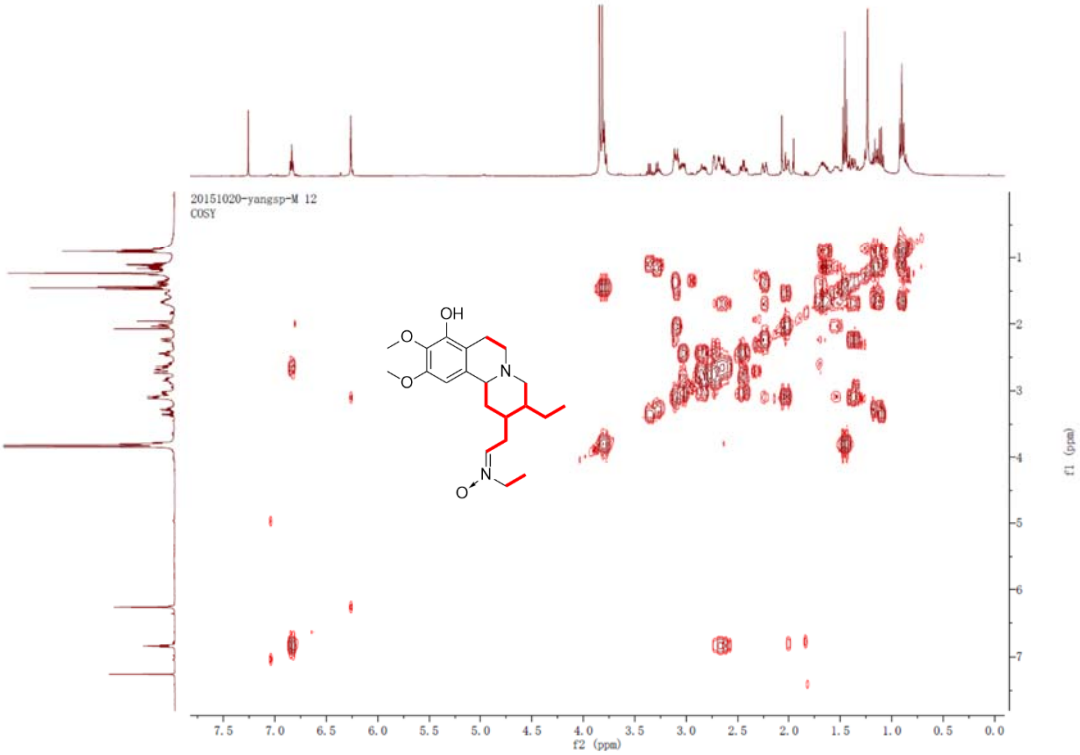

Figure S19 HSQC spectrum of **3** (400 MHz, $CDCl_3$).

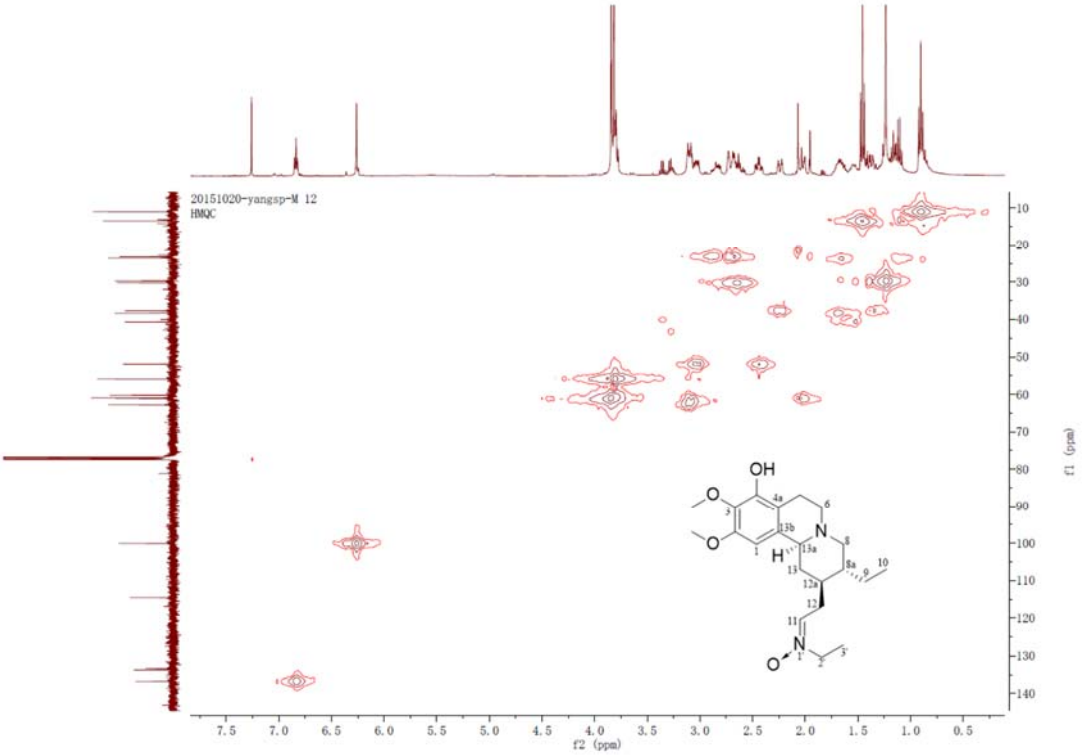

Figure S20 HMBC spectrum of **3** (400 MHz, $CDCl_3$).

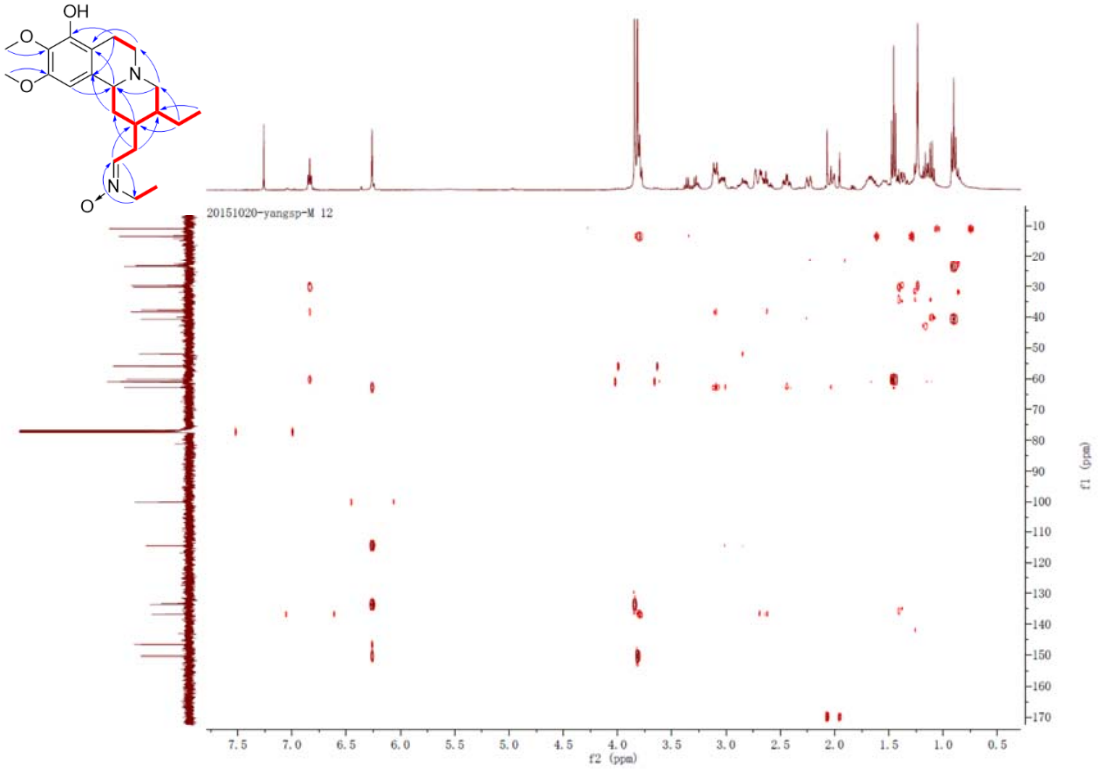

Figure S21 NOESY spectrum of **3** (400 MHz, $CDCl_3$).

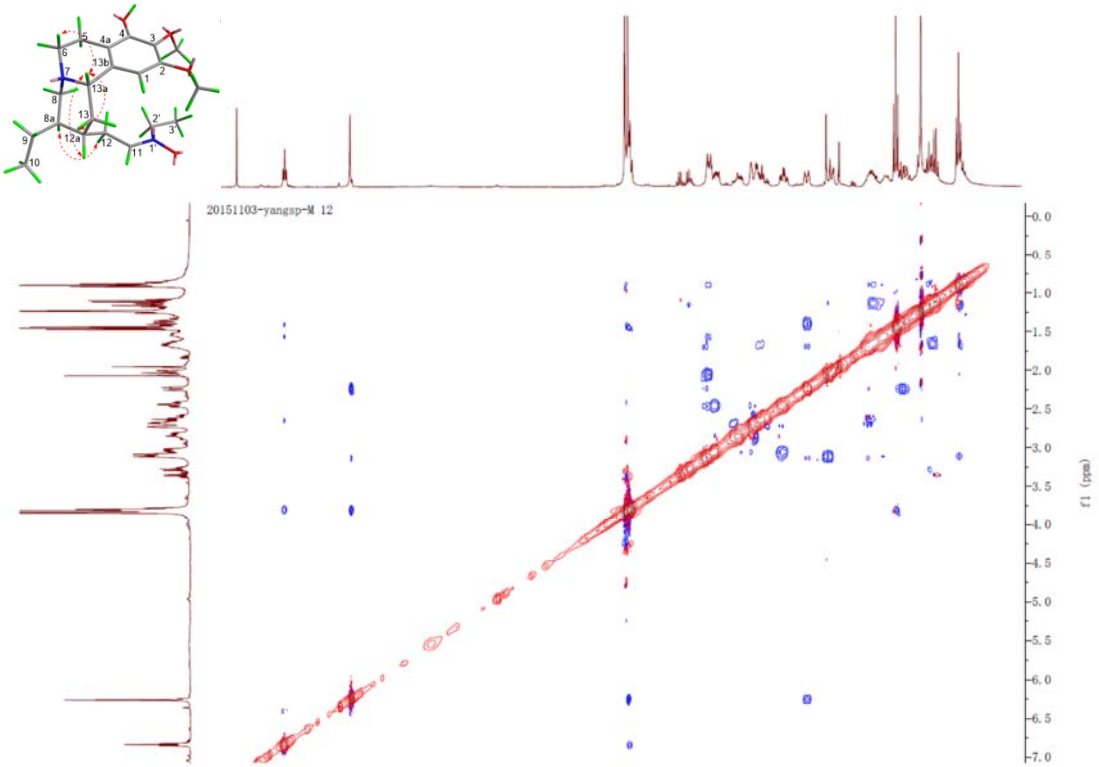

Figure S22 HRESIMS spectrum of **4.**

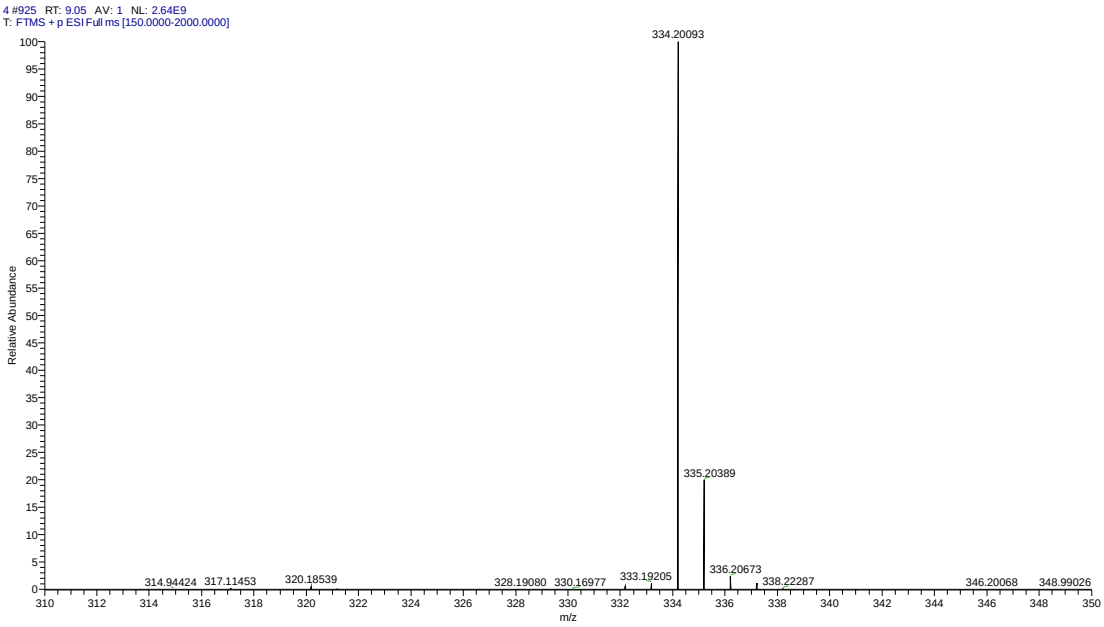

Figure S23 ^{1}H NMR spectrum of **4** (400 MHz, CD_3OD).

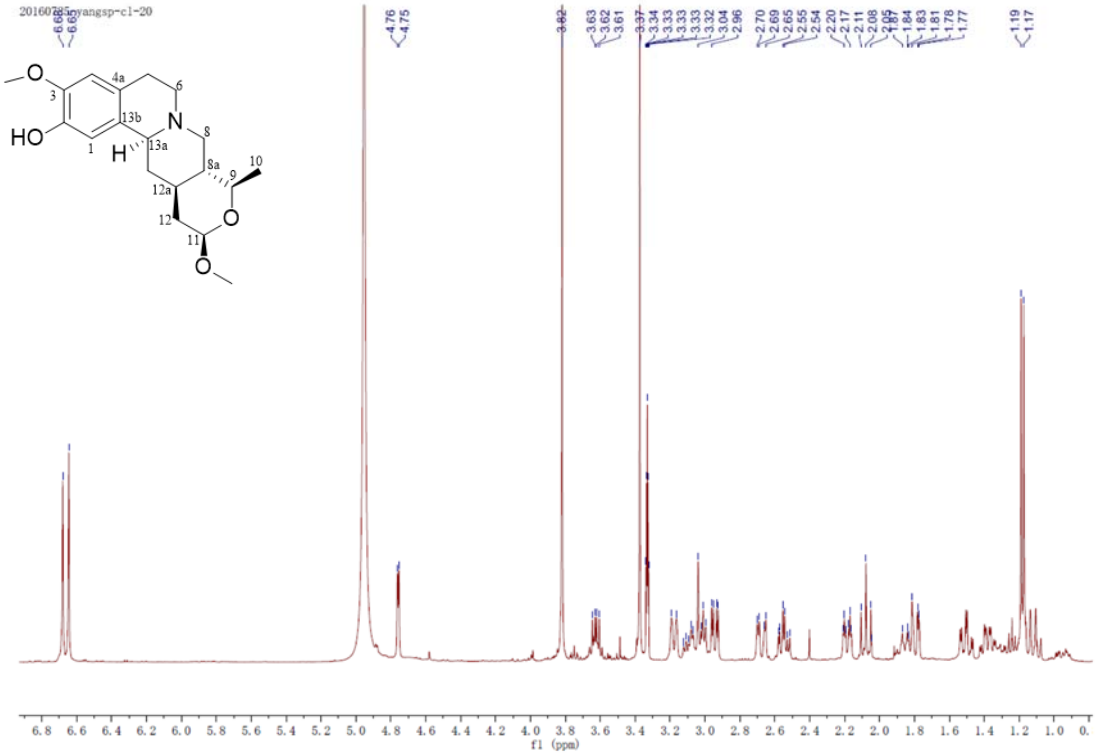

Figure S24 ^{13}C NMR spectrum of **4** (100 MHz, CD_3OD).

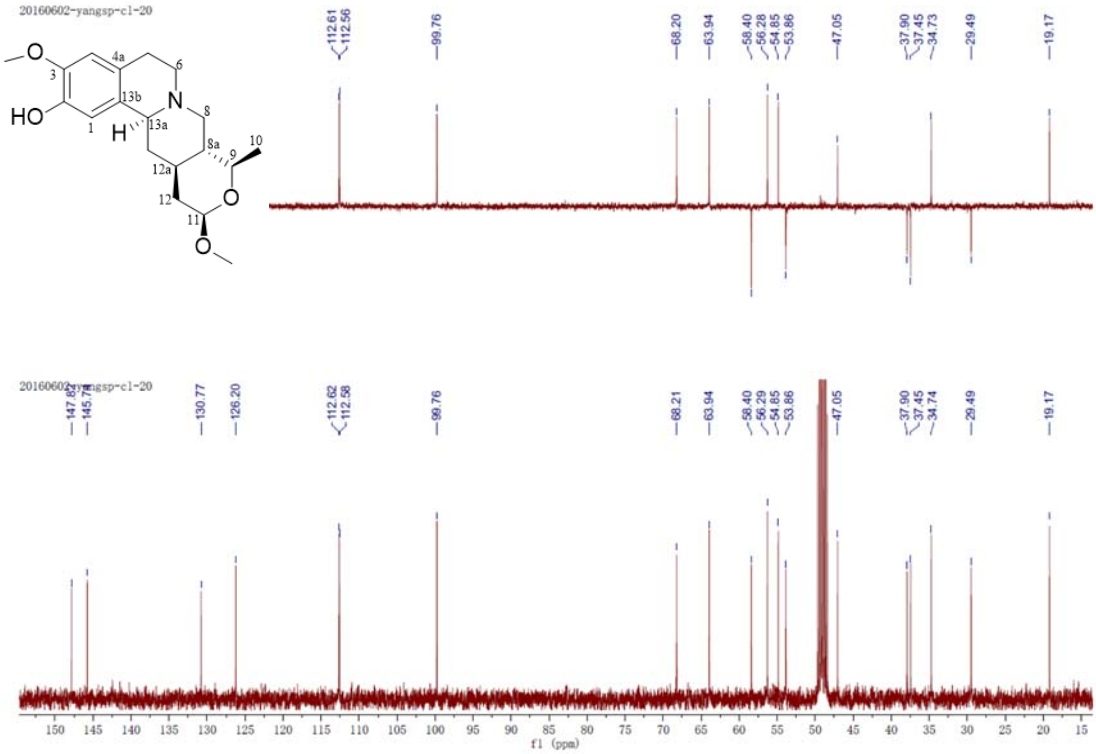

Figure S25 ^{1}H-^{1}H COSY spectrum of **4** (400 MHz, CD_3OD).

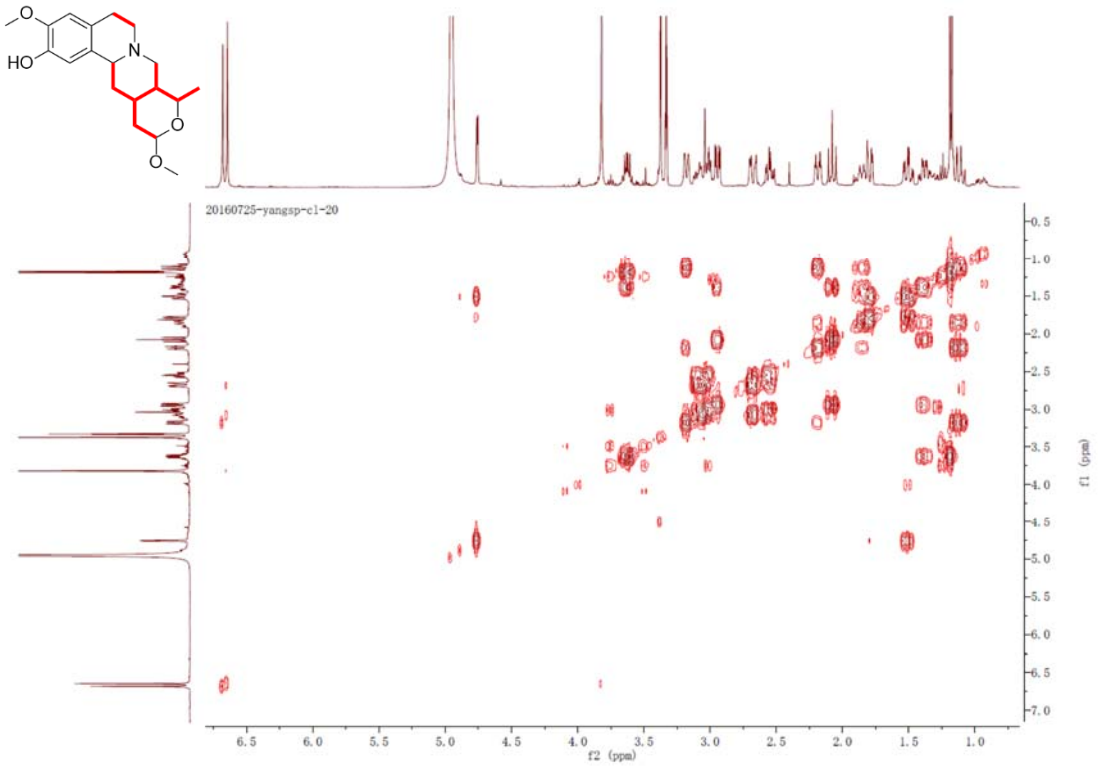

Figure S26 HSQC spectrum of **4** (400 MHz, CD_3OD).

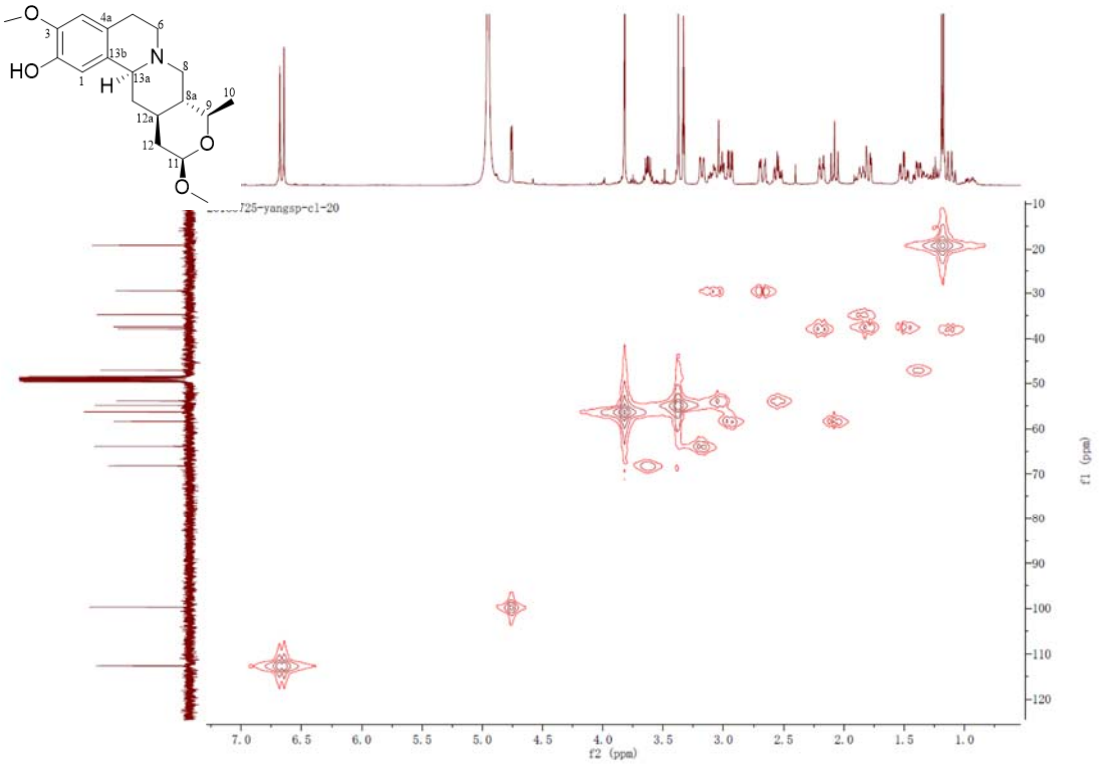

Figure S27 HMBC spectrum of **4** (400 MHz, CD_3OD).

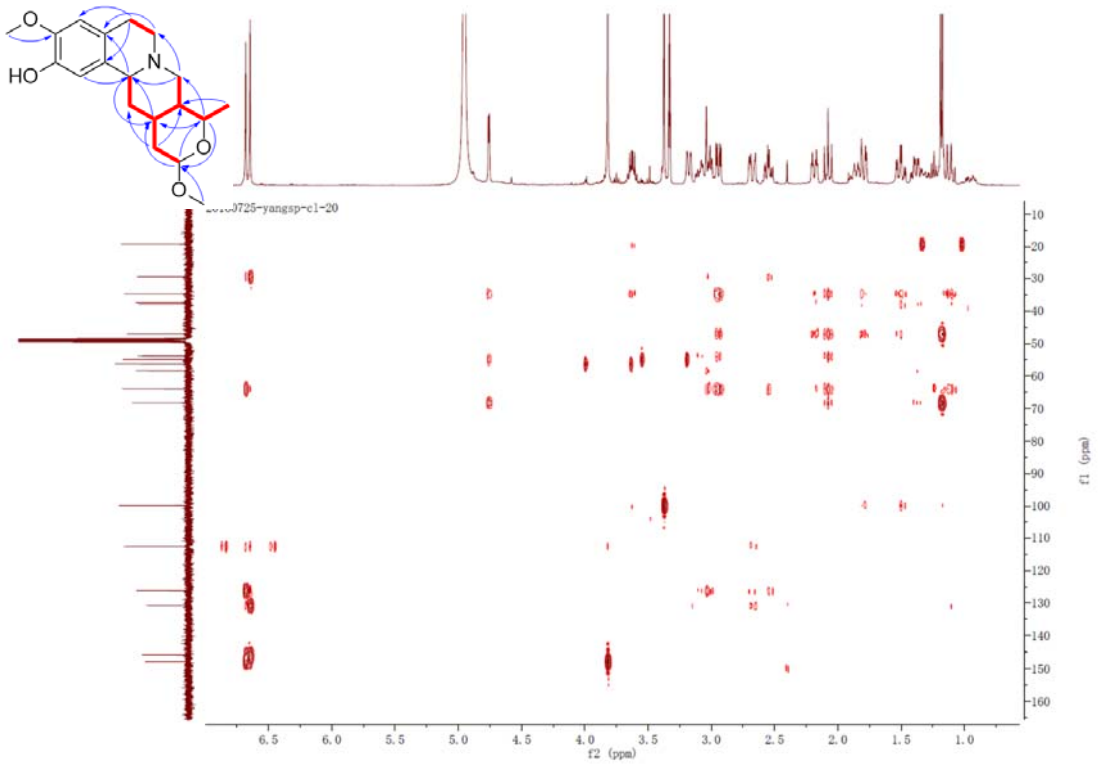

Figure S28 NOESY spectrum of **4** (400 MHz, CD_3OD).

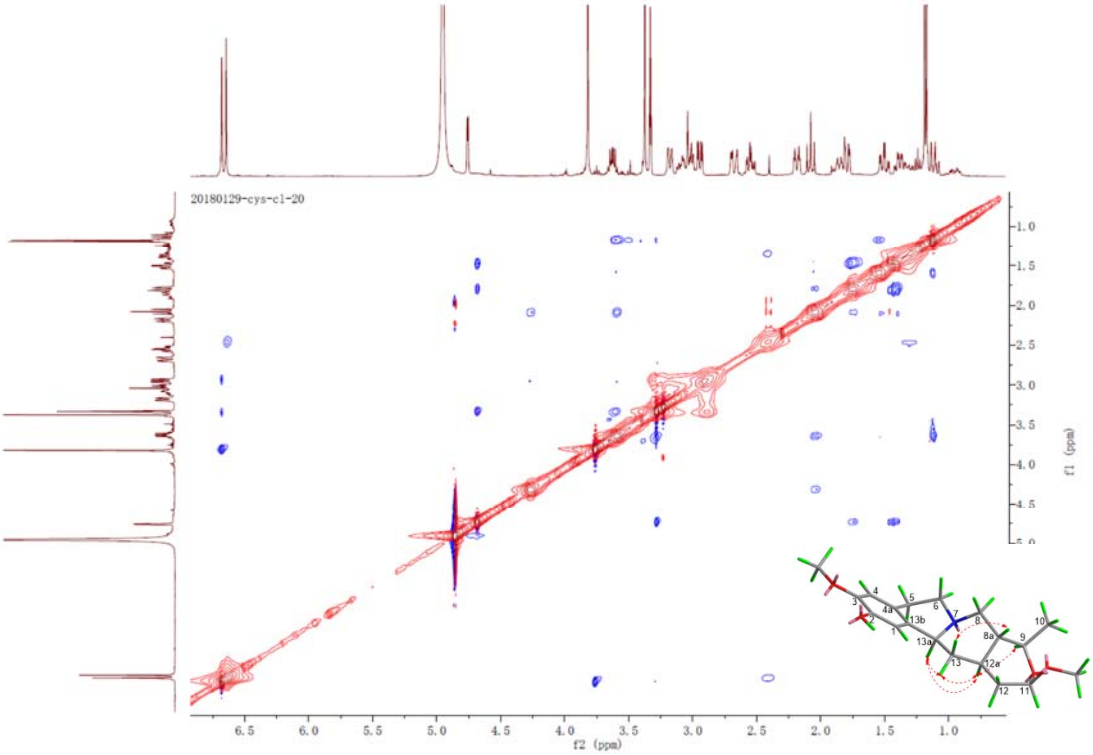

Figure S29 ^{1}H NMR spectrum of **5** (400 MHz, $CDCl_3$).

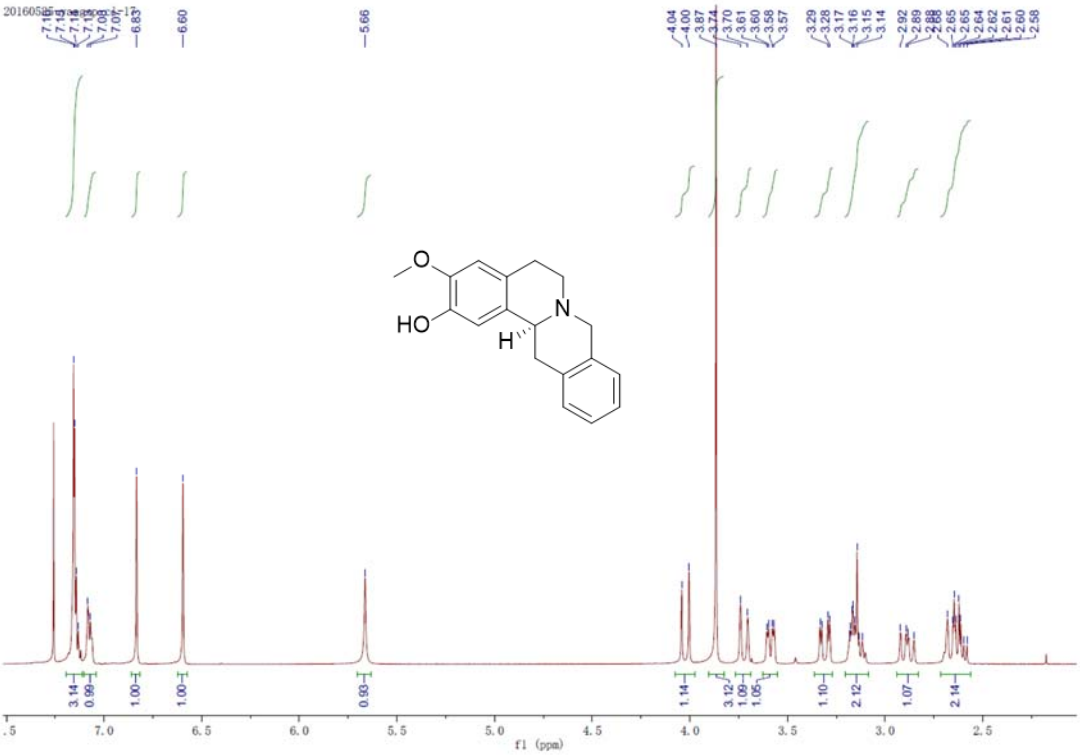

Figure S30 ^{13}C NMR spectrum of **5** (100 MHz, $CDCl_3$).

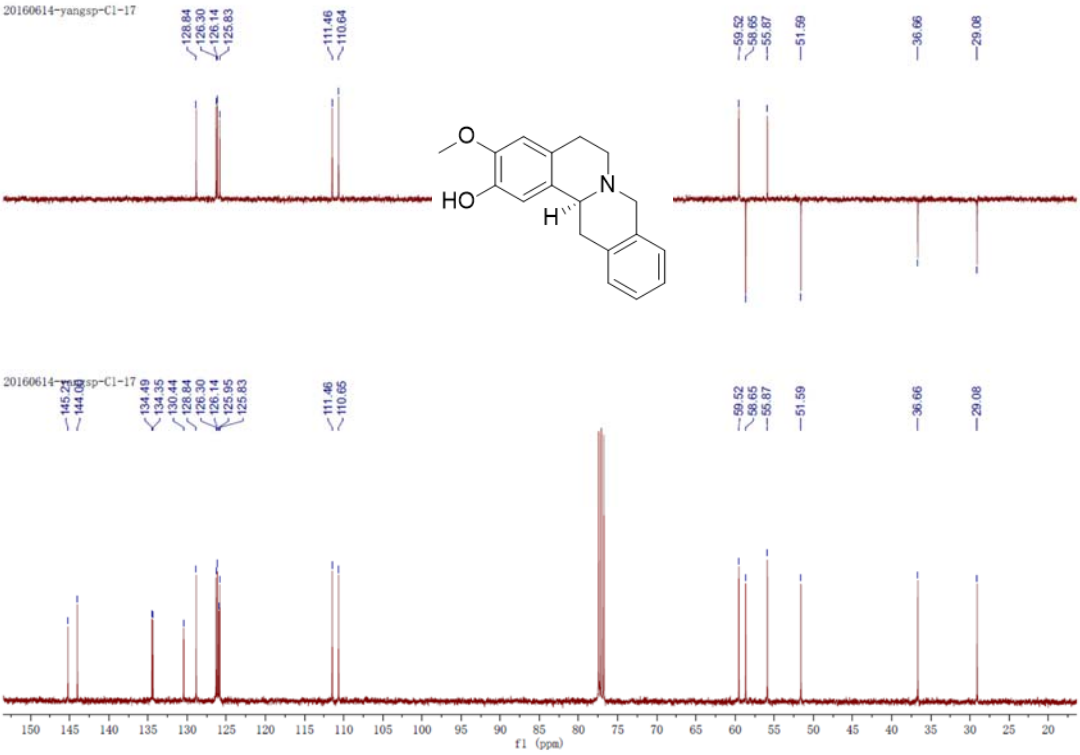

Figure S31 ^{1}H NMR spectrum of **15** (400 MHz, CD_3OD).

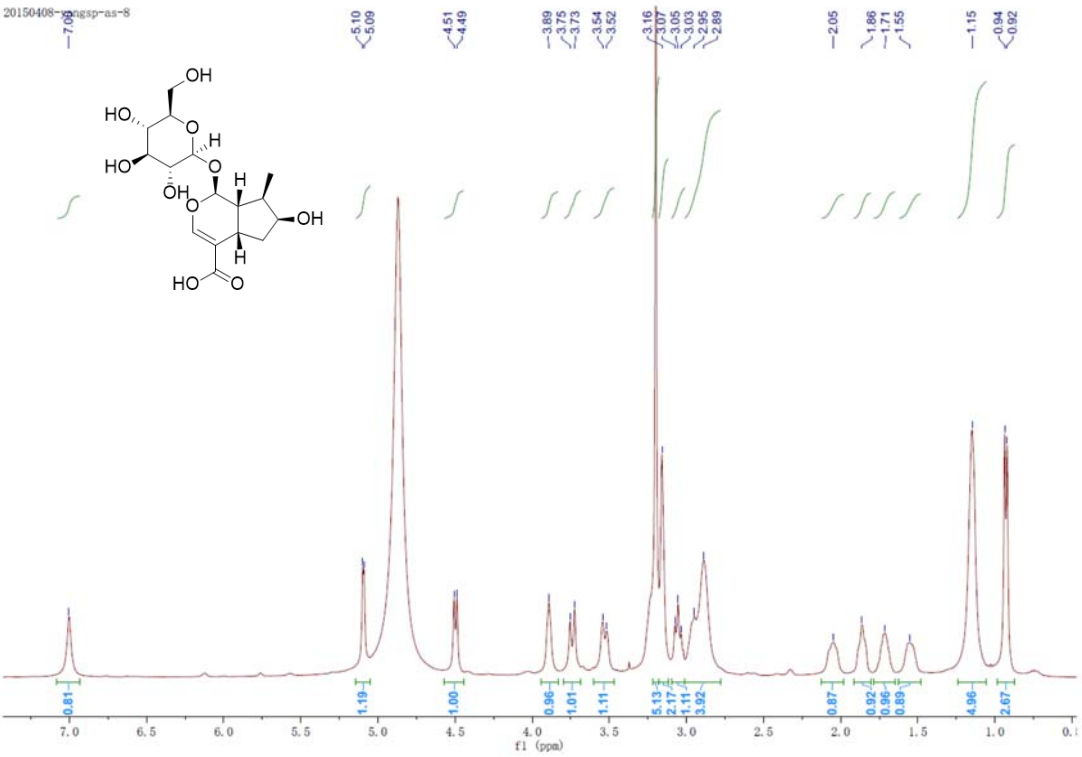

Figure S32 ^{13}C NMR spectrum of **15** (100 MHz, CD_3OD).