

Chojaponilactone B attenuates THP-1 macrophage pyroptosis by inhibiting TLR/MyD88/NF- κ B pathway

Qinyin Wen ¹, Bingjinfeng Zhan ¹, Lu Jin ¹, Zijing Peng ¹, Ju Liu ¹, Longping Zhu ¹, Depo Yang ¹, Xinjun Xu ¹, Lixia Zhang ², Ge Li ² and Zhimin, Zhao^{1,*}

¹ School of Pharmaceutical Sciences, Sun Yat-sen University, Guangzhou, Guangdong, China.

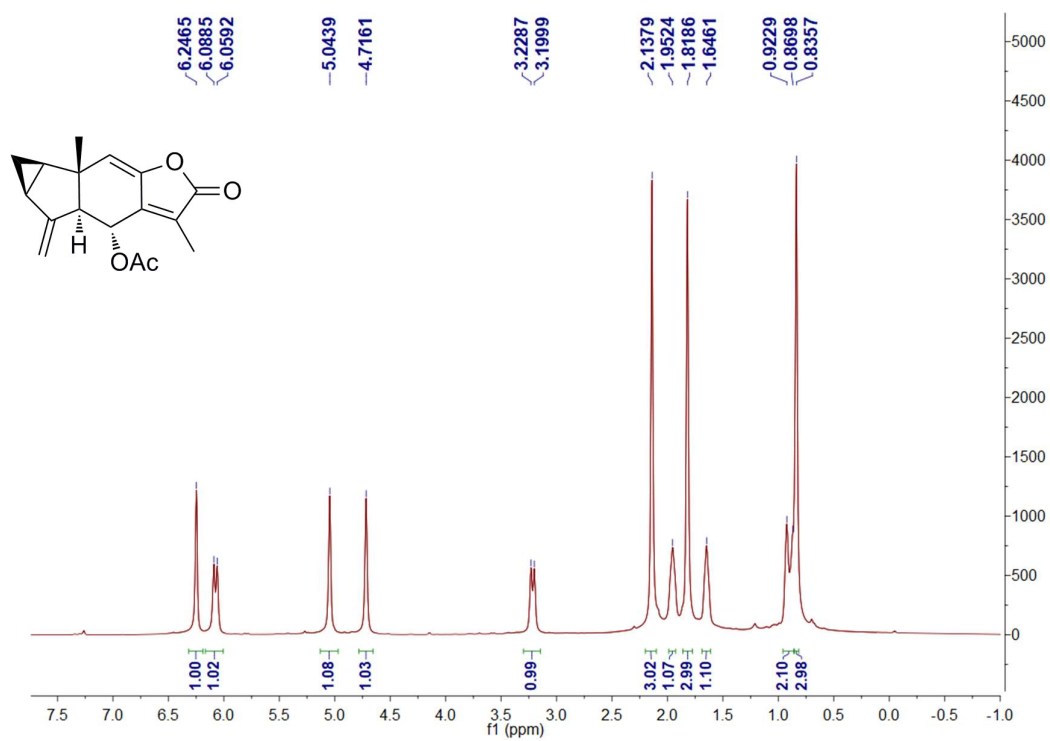
² Yunnan Key Laboratory of Southern Medicine Utilization, Yunnan Branch Institute of Medicinal Plant Development, Chinese Academy of Medical Sciences, Jinghong, China.

*Correspondence: Zhimin Zhao: zhaozhm2@mail.sysu.edu.cn; Tel.: +86-020-39943043

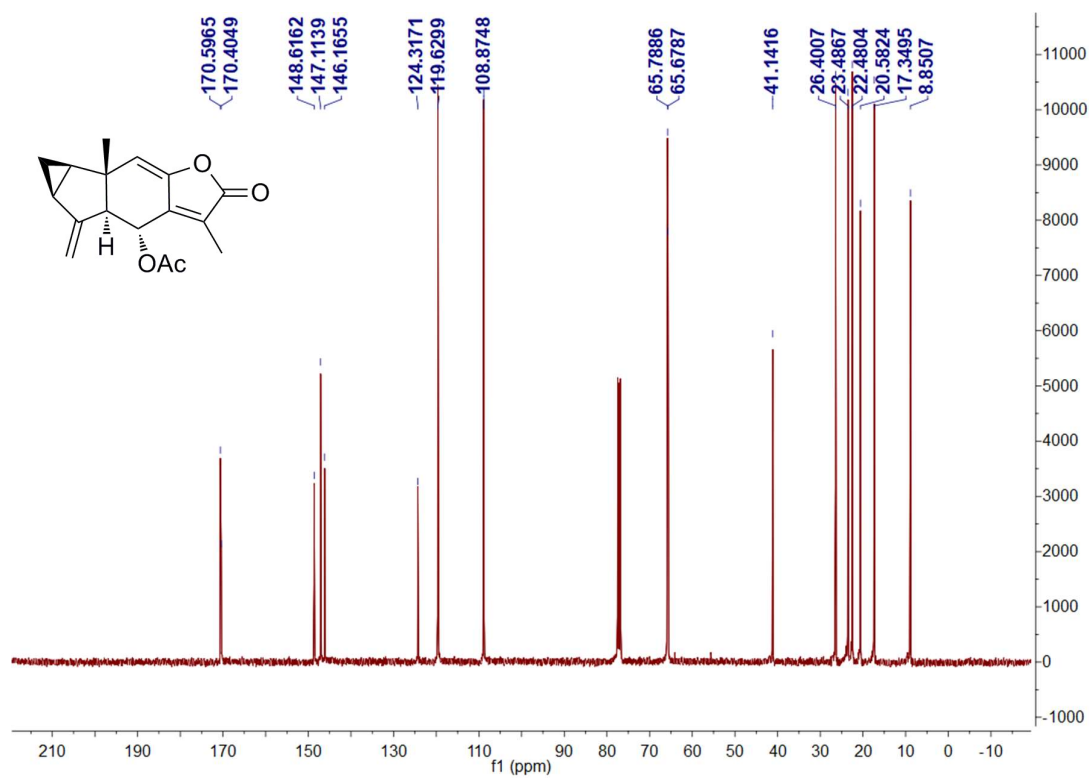
Figure	content	page
S1	Isolation and purification of Chlojaponilactone B	3
S2	¹ H NMR spectrum of Chlojaponilactone B	4
S3	¹³ C NMR spectrum of Chlojaponilactone B	5

S1. Isolation and purification of Chlojaponilactone B

The whole plants of *Chloranthus japonicus* were collected in March 2018 at Xishuangbanna, Yunnan Province, China, and authenticated by one of the co-authors (Depo, Yang). A voucher specimen (accession number: CJB201806) has been deposited at the School of Pharmaceutical Sciences, Sun Yat-sen University. Whole *Chloranthus japonicus* plants (20 kg) were air-dried, powdered, and extracted using 95% EtOH (3×75 L) for 1 week each at room temperature. The 95% EtOH extract was evaporated by removing the solvents to obtain the crude extract (1.5 kg), which was suspended in H₂O (5 L). The crude extract was partitioned into petroleum ether (3×5 L), EtOAc (3×5 L), and *n*-BuOH (3×5 L) fractions. The EtOAc extract (485.00 g) was purified by MCI gel column chromatography (CC) by gradient elution with an MeOH/H₂O gradient (30:70 to 100:0) to obtain five fractions (I-V). Fraction III (52.06 g) was chromatographed over a C18 reversed-phase (RP-18) silica gel by gradient elution with petroleum ether/EtOAc (100:0 to 75:25) to obtain six fractions (IIIa-III_f). Fraction III_c (1.95 g) was purified on a Sephadex LH-20 CC column using isocratic elution with CH₂Cl₂/MeOH (0:100) to afford three fractions (IVa-IV_c). Finally, Fraction IV_b (700 mg) was purified by HPLC with MeOH/H₂O (70:30) to yield Chlojaponilactone B (300 mg).



S2. ¹H NMR spectrum of Chlojaponilactone B (CDCl₃, 400 MHz)



S3. ^{13}C NMR spectrum of Chlojaponilactone B (CDCl_3 , 100 MHz)