

Supplementary Information

Alkaloids from *Acorus gramineus* Rhizomes and their Biological Activity

Ki H. Kim,^a Eunjung Moon,^b Ki S. Kang,^c Sun Y. Kim,^b Sang U. Choi^d and Kang R. Lee^{*,a}

^aNatural Products Laboratory, School of Pharmacy, Sungkyunkwan University,
440-746 Suwon, Republic of Korea

^bCollege of Pharmacy, Gachon University, 406-799 Incheon, Republic of Korea

^cCollege of Korean Medicine, Gachon University, 461-701 Seongnam, Republic of Korea

^dKorea Research Institute of Chemical Technology, 305-600 Deajeon, Republic of Korea

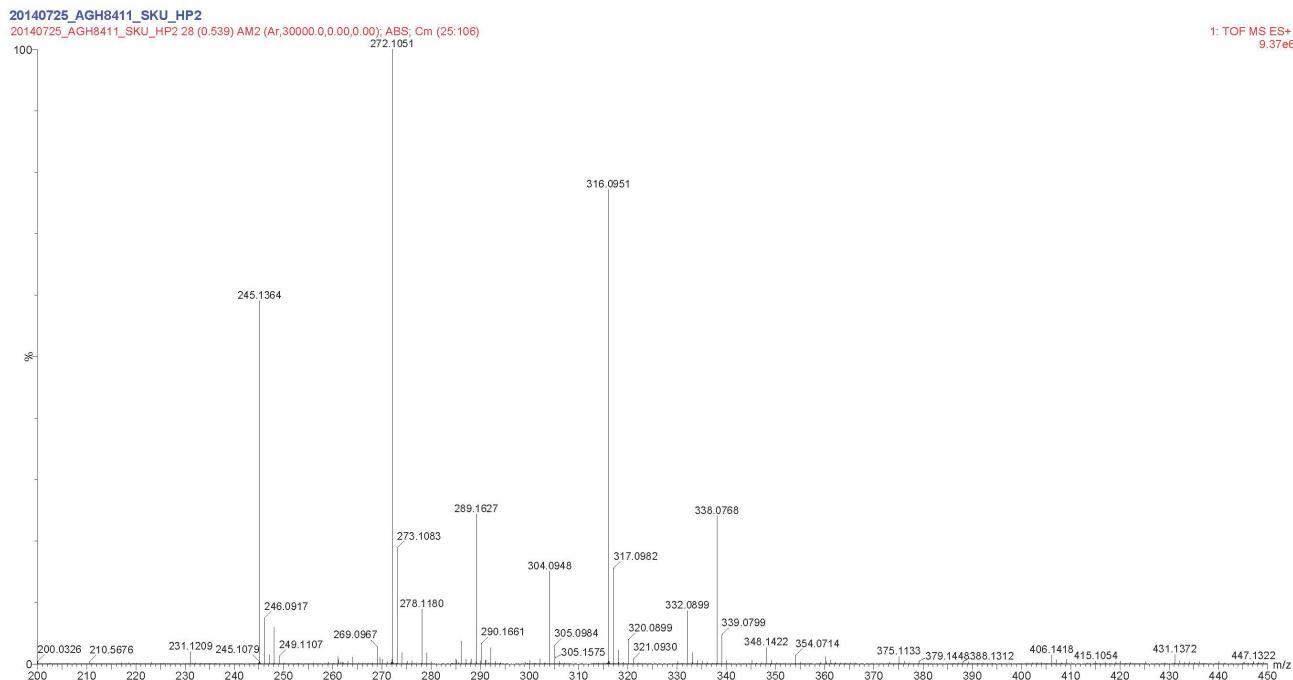


Figure S1. HR-ESIMS chromatogram of **1**.

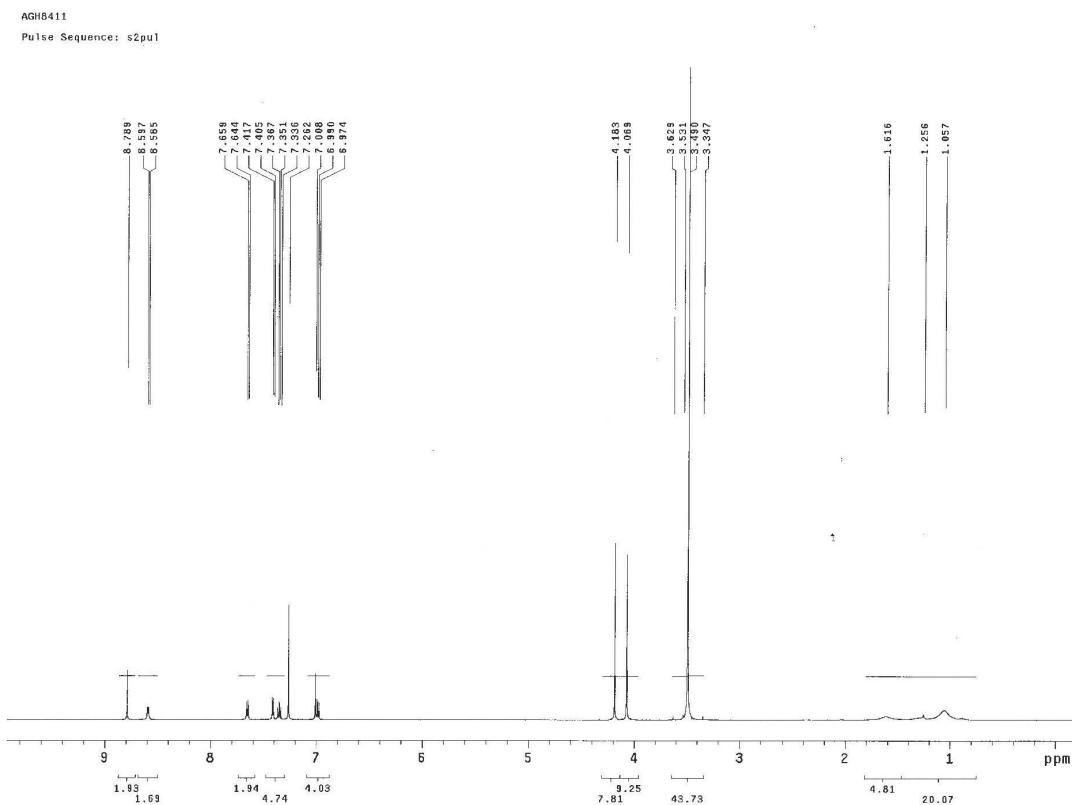


Figure S2. ^1H NMR spectrum of **1** (500 MHz, CDCl_3).

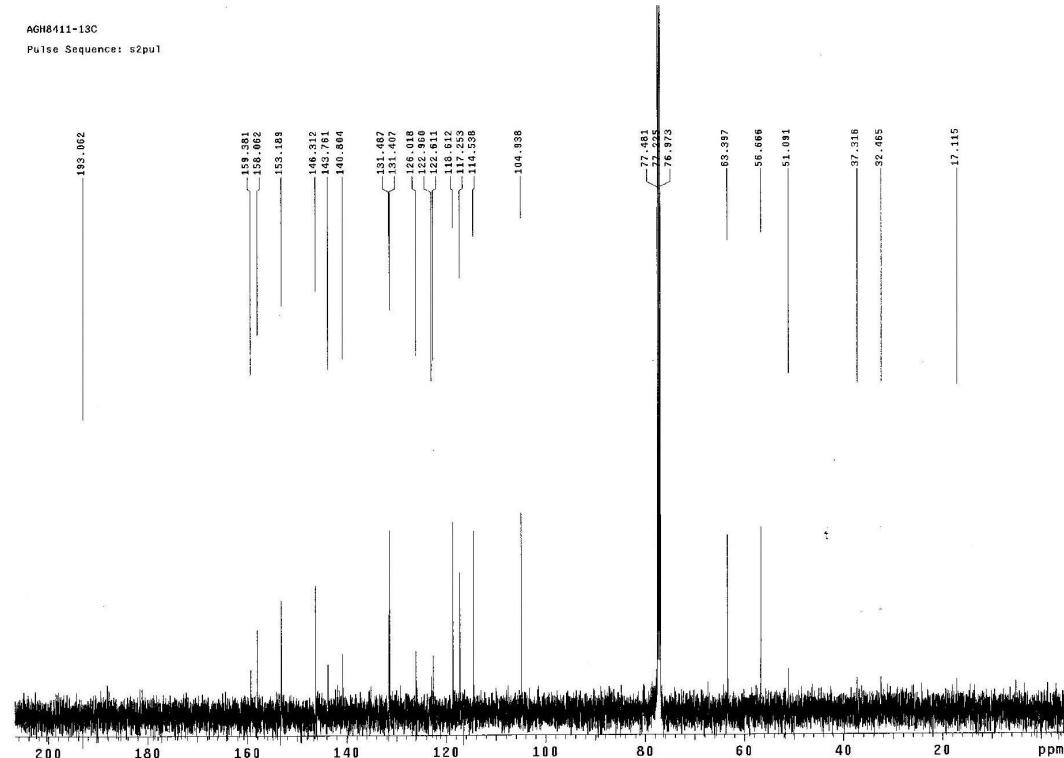


Figure S3. ^{13}C NMR spectrum of **1** (125 MHz, CDCl_3).

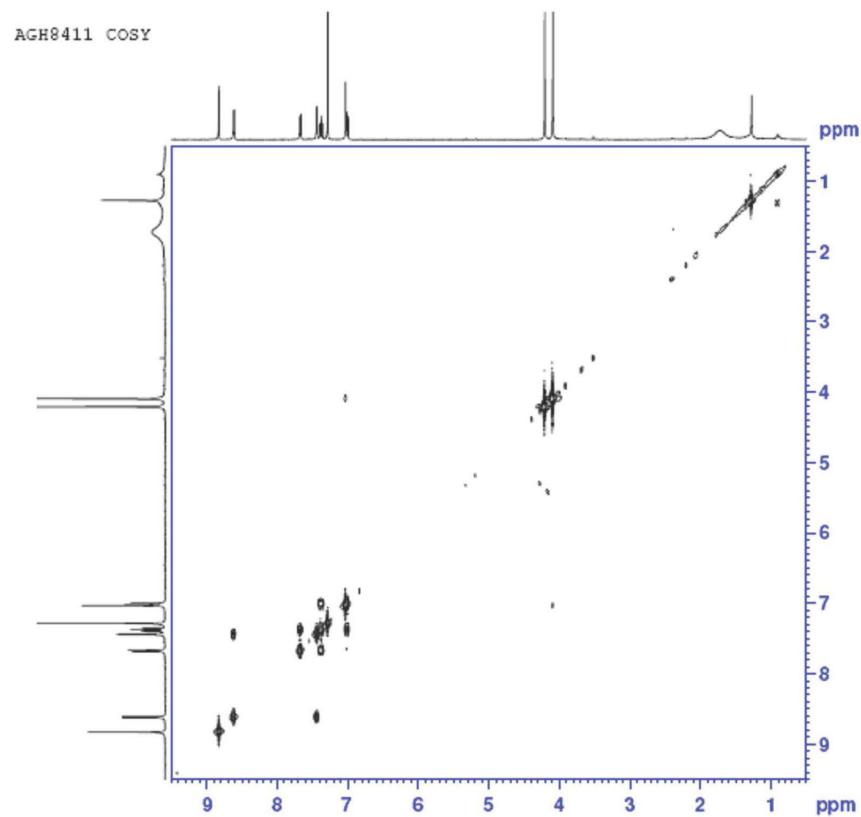


Figure S4. ^1H - ^1H COSY spectrum of **1**.

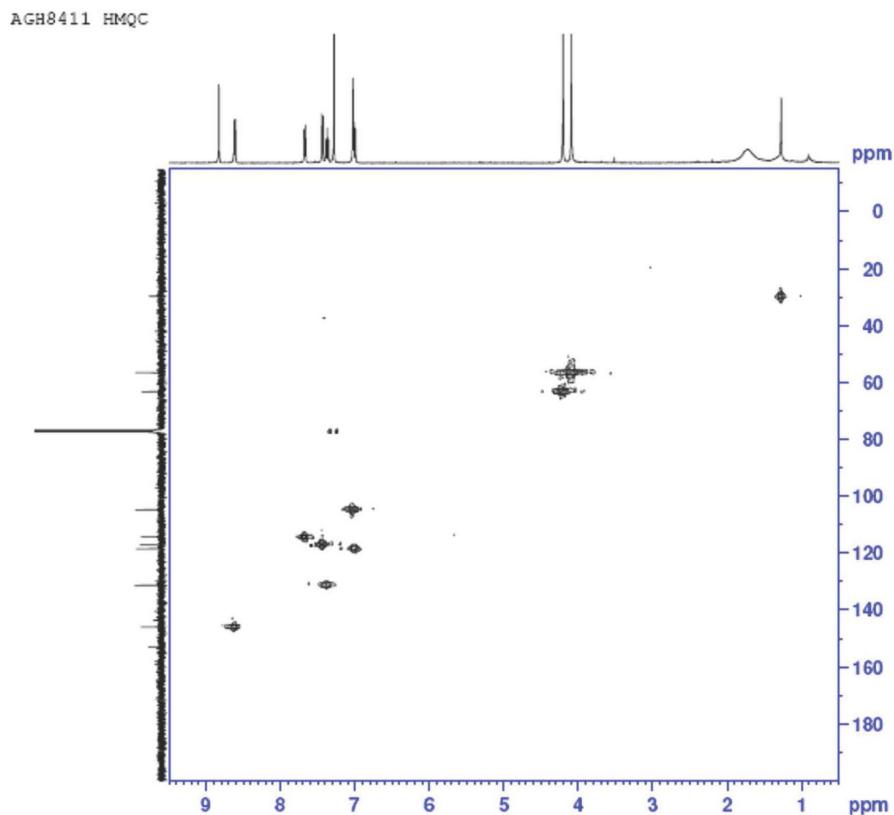


Figure S5. HMQC spectrum of **1**.

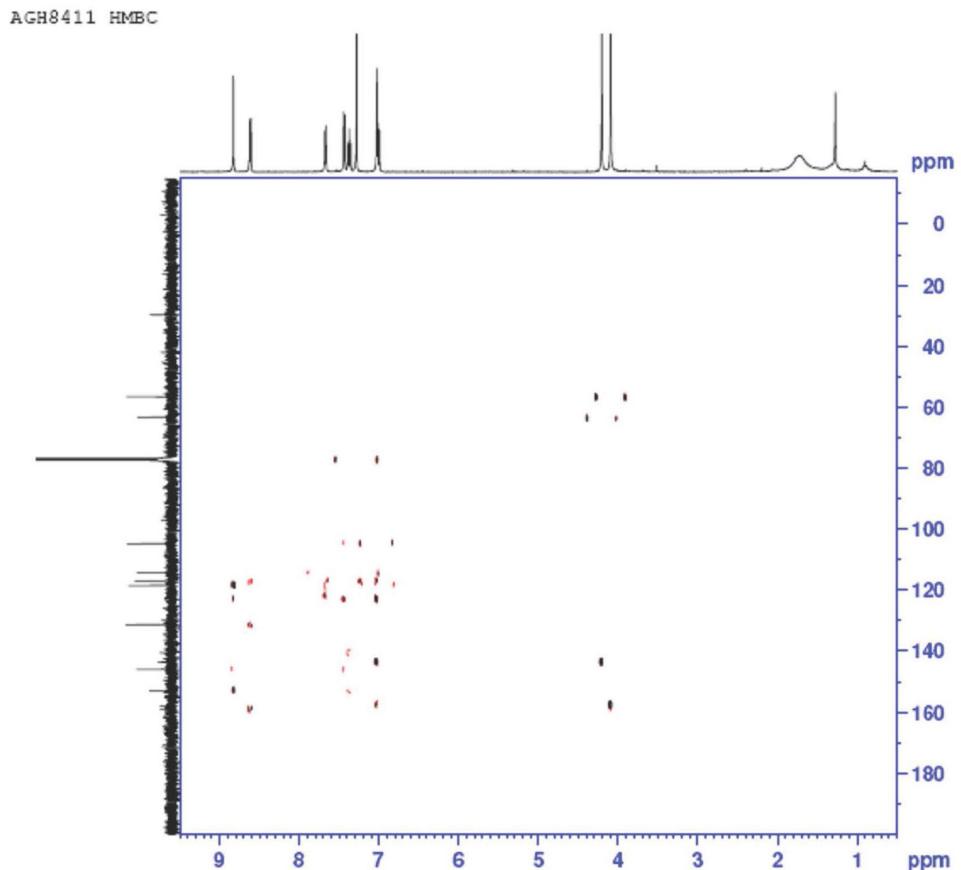


Figure S6. HMBC spectrum of **1**.

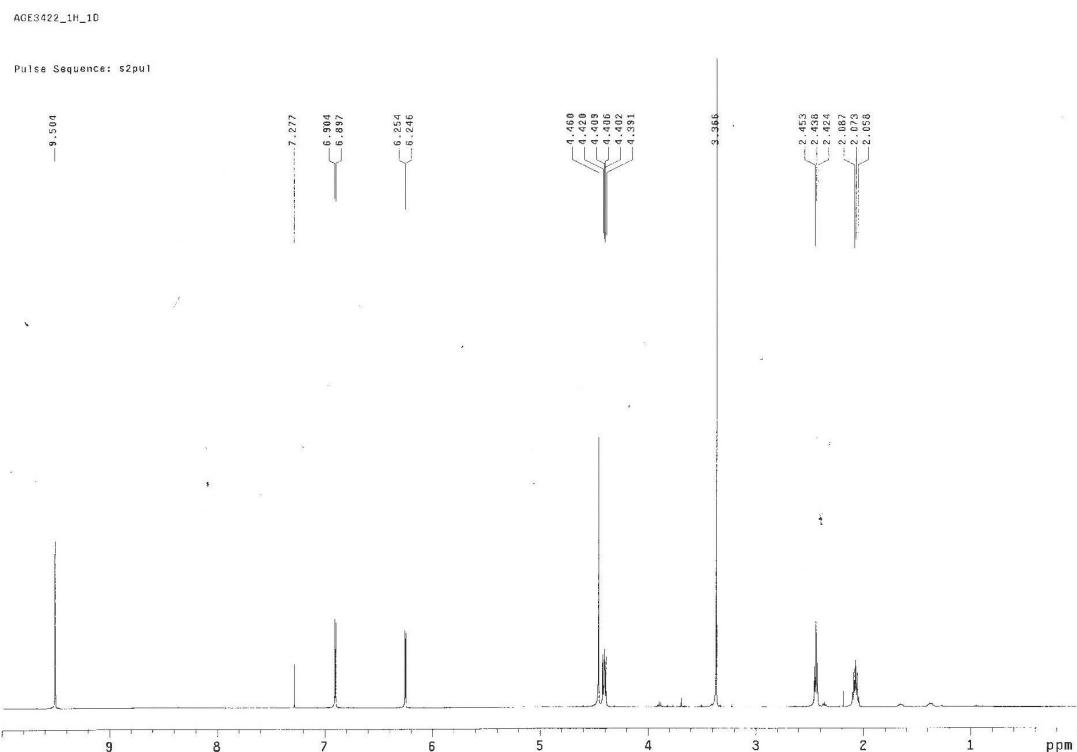


Figure S7. ^1H NMR spectrum of **2** (500 MHz, CDCl_3).

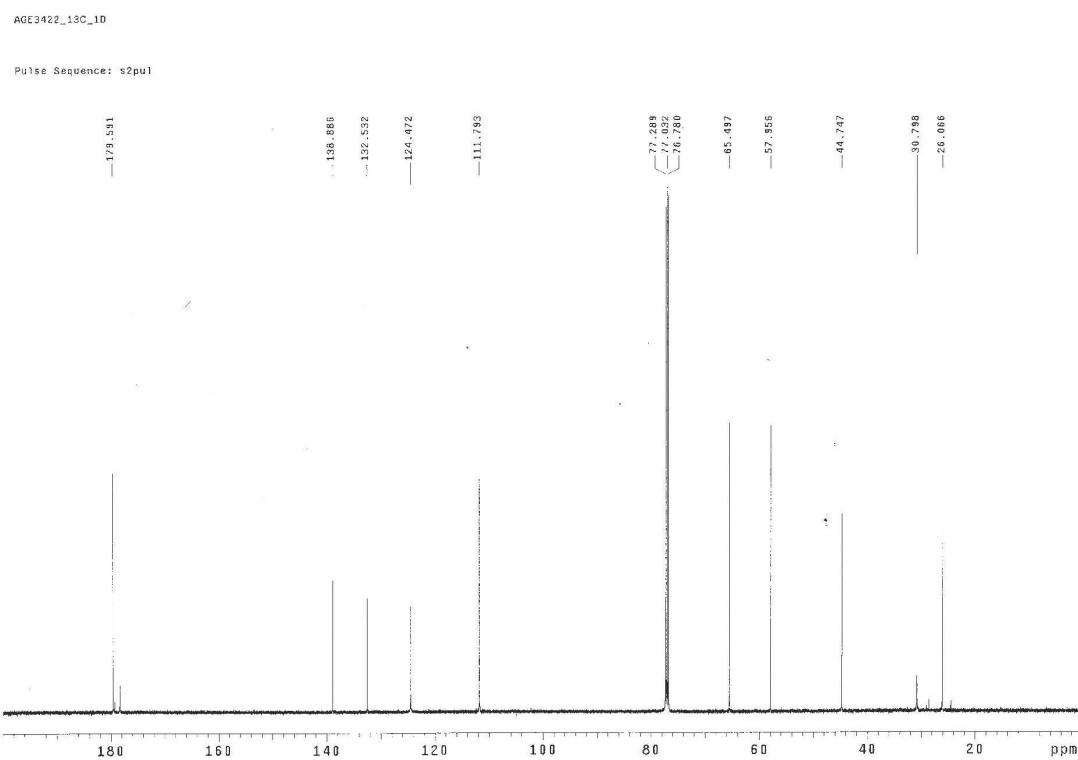


Figure S8. ^{13}C NMR spectrum of **2** (125 MHz, CDCl_3).

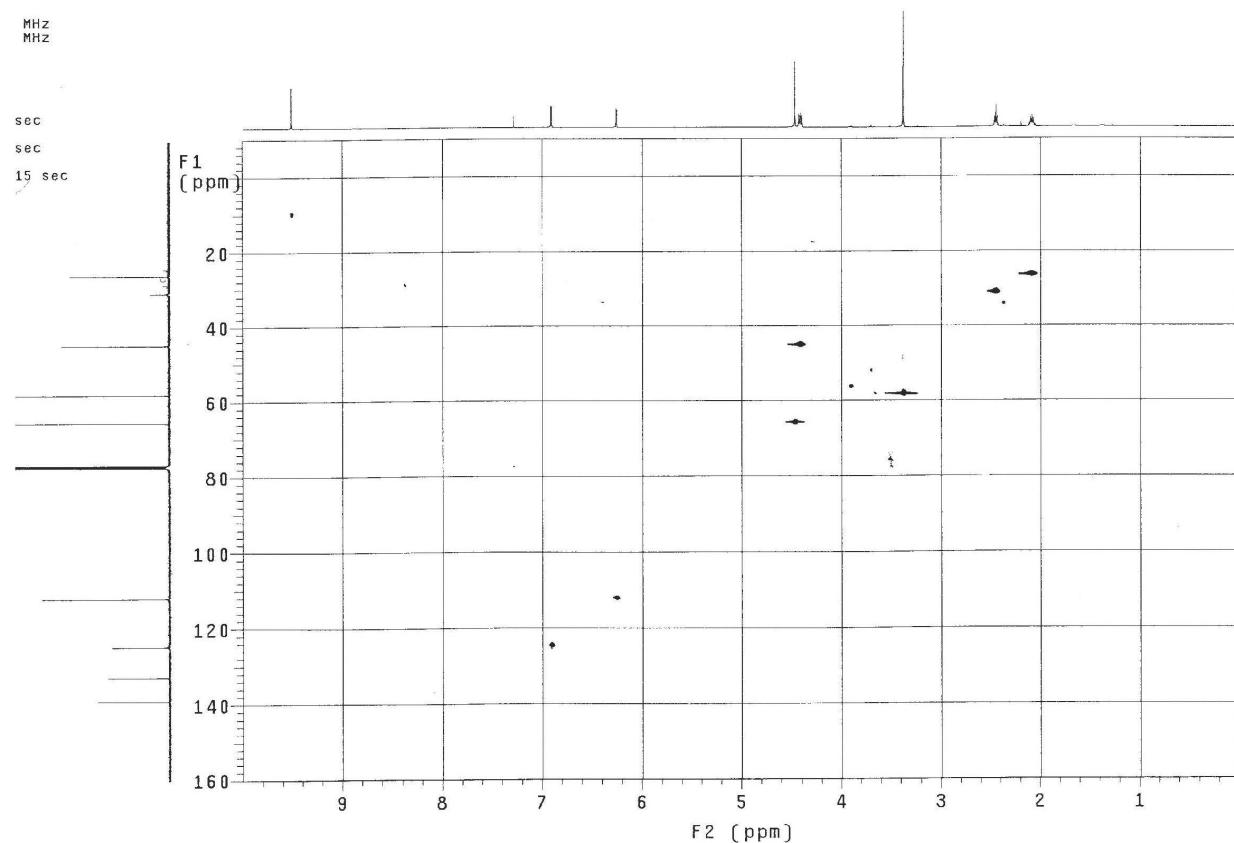


Figure S9. HMQC spectrum of **2**.

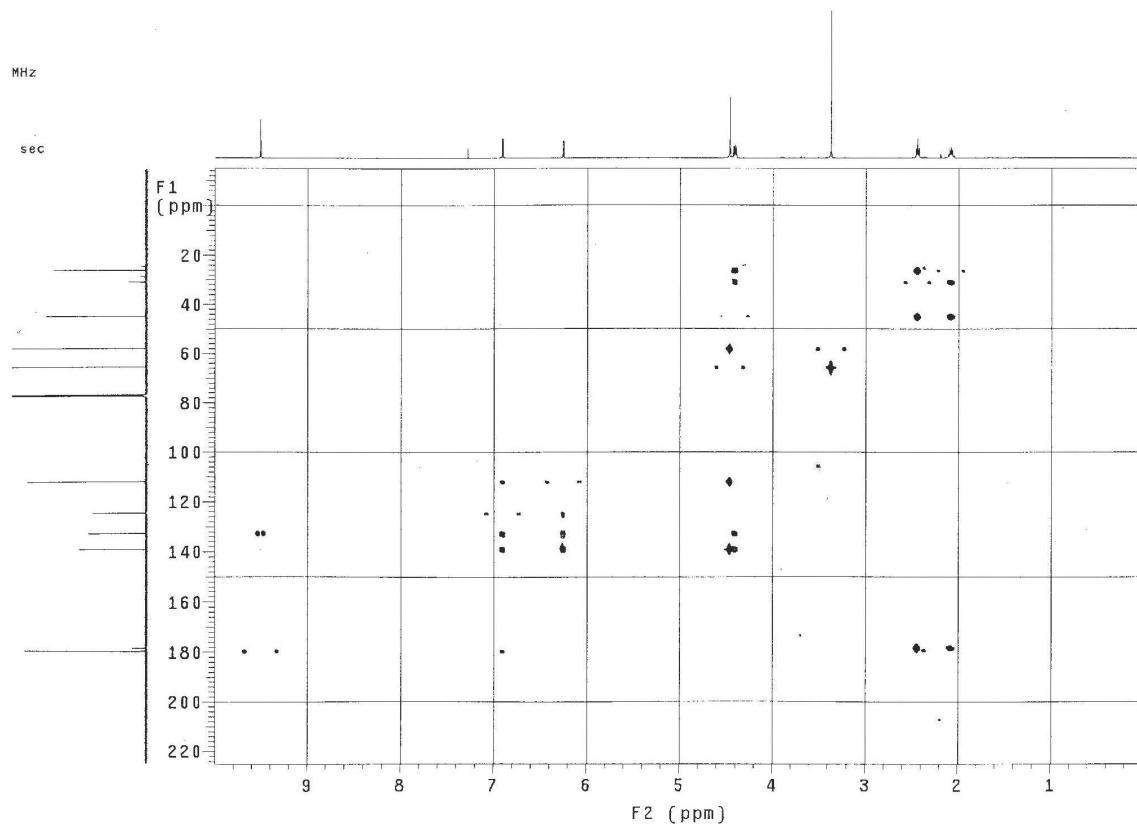


Figure S10. HMBC spectrum of **2**.

Table S1. ^1H and ^{13}C NMR data of compound **2** and ^{13}C NMR data of the same compound in the literature

| Position | 2^a | | Compound in the literature ^b | |
|------------------|----------------------|---------------------|---|----------------|
| | δ_{H} | δ_{C} | δ_{C} | $\Delta\delta$ |
| 2 | — | 132.5 | 132.5 | 0 |
| 3 | 6.90 d (4.0) | 124.4 | 124.3 | +0.1 |
| 4 | 6.25 d (4.0) | 111.7 | 111.7 | 0 |
| 5 | — | 138.8 | 143.9 | -5.1 |
| 6 | 4.46 s | 65.4 | 65.5 | -0.1 |
| CHO | 9.50 s | 179.5 | 179.5 | 0 |
| OCH ₃ | 3.36 s | 57.9 | 57.9 | 0 |
| 1' | 4.40 t (7.5) | 44.7 | 44.7 | 0 |
| 2' | 2.07 t (7.5) | 26.0 | 26.0 | 0 |
| 3' | 2.43 t (7.5) | 30.7 | 30.3 | +0.4 |
| 4' | — | 178.3 | 176.0 | +2.3 |

^a ^1H (500 MHz) and ^{13}C NMR (125 MHz) data in CDCl_3 ; ^b ^{13}C NMR (100 MHz) data in CDCl_3 .