**SUPPLEMENTARY MATERIAL**

**Two New Eudesmane-Type Glucopyranosides from the Fruits of**

***Daucus carota* L.**

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Two new eudesmane-type glucopyranosideshave been isolated from the fruits of *Daucus carota* L. On the basis of their spectroscopic and chemical evidence, the new compounds were elucidated as daucucarotol-10-*O*-*β*-D-glucopyranoside (**1**) and decahydro-7-[(2-*O*-*β*-D-glucopyranosyl)-isopropyl]-1*β*, 4a*α*-dimethyl-(1*α*, 4*α*, 8a*β*)-naphthalenetriol (**2**). Compounds **1** and **2** showed moderate antitumor activity against human ECA-109 and gave IC50 values of 23.22 µM/mL and 26.76 µM/mL, respectively.

**Keywords:** *Daucus carota* L.; eudesmane type sesquiterpene glycoside; antitumor activity

Table S**1** 1H and 13C NMR chemical shifts of compounds **1** and **2** (in C5D5N)

Figure S1. The 1H-1H COSY (**─**), key HMBC correlations (H→C) (a), and key NOESY correlations (H H ) (b) of **1.**

Figure S2. The 1H-1H COSY (**─**), key HMBC correlations (H→C) (a), and key NOESY correlations (H H ) (b) of **2.**

**Figure S3. 1H NMR spectrum of compound 1 in Pyridine-D5**

**Figure S4. 13C NMR spectrum of compound 1 in Pyridine-D5**

**Figure S5. HMQC spectrum of compound 1 in Pyridine-D5**

**Figure S6. HMBC spectrum of compound 1 in Pyridine-D5**

**Figure S7. H-H COSY spectrum of compound 1 in Pyridine-D5**

**Figure S8. NOE spectrum of compound 1 in Pyridine-D5**

**Figure S9. 1H NMR spectrum of compound 2 in Pyridine-D5**

**Figure S10. 13C NMR spectrum of compound 2 in Pyridine-D5**

**Figure S11. HMQC spectrum of compound 2 in Pyridine-D5**

**Figure S12.HMBC spectrum of compound 2 in Pyridine-D5**

**Figure S13. H-H COSY spectrum of compound 2 in Pyridine-D5**

**Figure S14. NOE spectrum of compound 2 in Pyridine-D5**

Table S**1** 1H and 13C NMR chemical shifts of compounds **1** and **2** (in C5D5N )

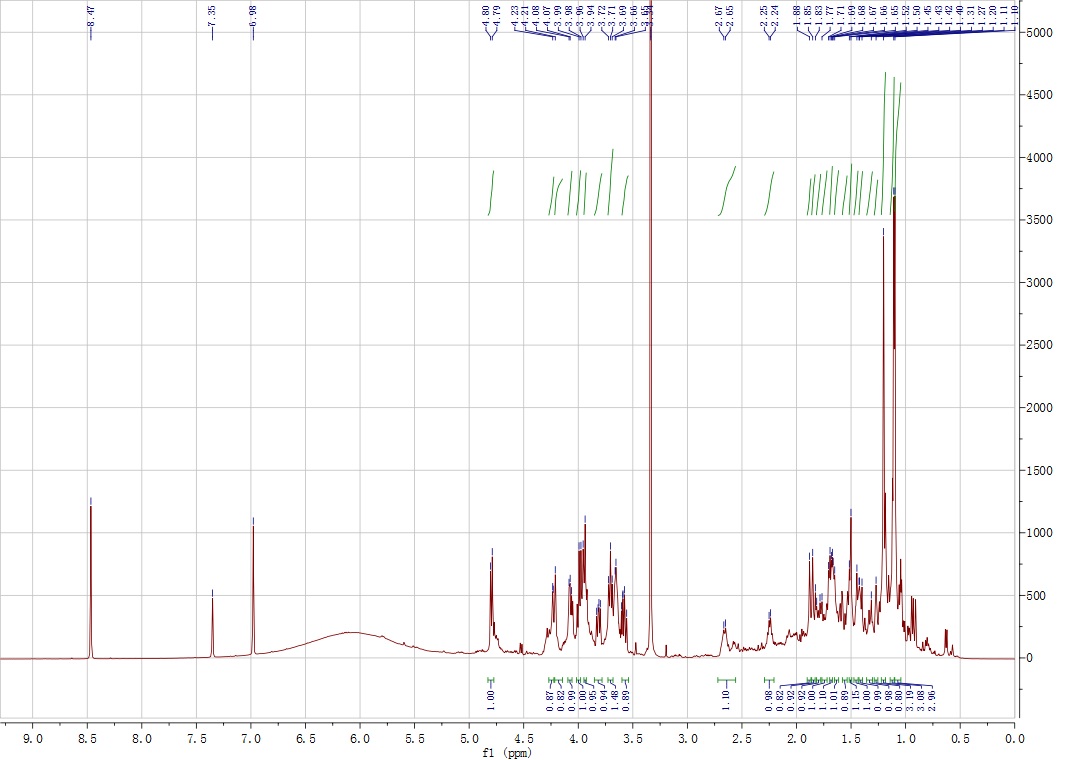
|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Position | **1** |  | **2** |  |
| *δ*H(*J* in Hz) | *δ*C | *δ*H(*J* in Hz) | *δ*C |
| 1 | 2.17 (1H, m) | 47.8 |  | 72.4 |
| 2 | 1.72 (1H, m) | 30.1 | 2.04 (1H, m) | 48.8 |
|  | 1.39 (1H, m) |  | 1.78 (1H, m) |  |
| 3 | 1.74(1H, m) | 27.9 | 2.44 (1H, m) | 33.0 |
|  | 1.63(1H, m) |  | 1.81(1H, m) |  |
| 4 | 1.72(1H, m) | 22.1 | 4.26(1H,dd, 7.5,7.5) | 80.1 |
|  | 1.55(1H, m) |  |  |  |
| 4a | 1.66(1H, m) | 54.9 |  | 48.2 |
| 5 |  | 72.3 | 1.93 (2H,t, 7.0) | 45.8 |
| 6 | 1.88(1H, m) | 46.9 | 1.72 (1H, m) | 28.3 |
|  | 1.45(1H, m) |  | 1.69 (1H, m) |  |
| 7 | 1.82(1H, m) | 47.9 | 2.02 (1H, m) | 48.3 |
| 8 | 1.60(1H, m) | 29.4 | 1.98 (2H, d, 7.0) | 23.6 |
|  | 1.49(1H, m) |  |  |  |
| 8a | 2.70(1H, m) | 36.8 |  | 81.9 |
| 9 | 1.10(3H, s) | 31.5 | 1.15(3H, s) | 25.4 |
| 10 |  | 81.9 | 1.28(3H, s) | 22.9 |
| 11 | 1.23(3H, s) | 25.0 |  | 82.1 |
| 12 | 1.13(3H, s) | 23.2 | 1.19(3H, s) | 22.7 |
| 13 | 3.73(1H, dd,10.5,7.0) | 63.4 | 1.12(3H, s) | 17.5 |
|  | 3.46(1H, dd,10.5,7.0) |  |  |  |
| Glc-1’ | 4.80 (1H,d, 7.5) | 98.9 | 4.79 (1H,d, 7.5)k | 99.1 |
| 2’ | 4.25 (1H,t, 7.5) | 75.8 | 4.11 (1H,t, 7.5) | 75.8 |
| 3’ | 3.97 (1H,t, 7.5) | 78.4 | 3.72 (1H,t, 7.5) | 78.6 |
| 4’ | 4.05 (1H,t, 7.5) | 71.7 | 3.96 (1H,t, 7.5) | 74.4 |
| 5’ | 4.18 (1H,q, 7.5) | 79.2 | 4.08 (1H,q, 7.5) | 79.4 |
| 6’ | 4.60 (1H,dd, 12.0, 7.5)  4.35 (1H,dd, 12.0, 7.5) | 63.3 | 4.24 (1H,dd, 12.0, 7.5)  4.00 (1H,dd, 12.0, 7.5) | 63.5 |

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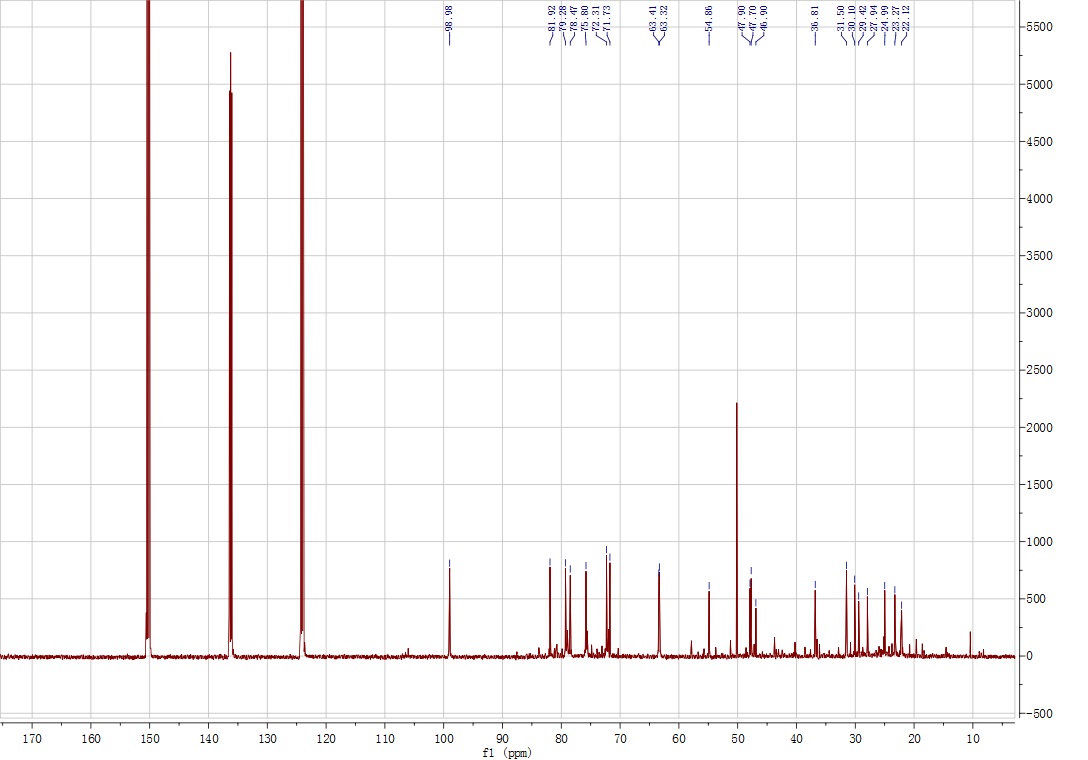
Figure S1. The 1H-1H COSY (**─**), key HMBC correlations (H→C) (a), and key NOESY correlations (H H ) (b) of **1.**

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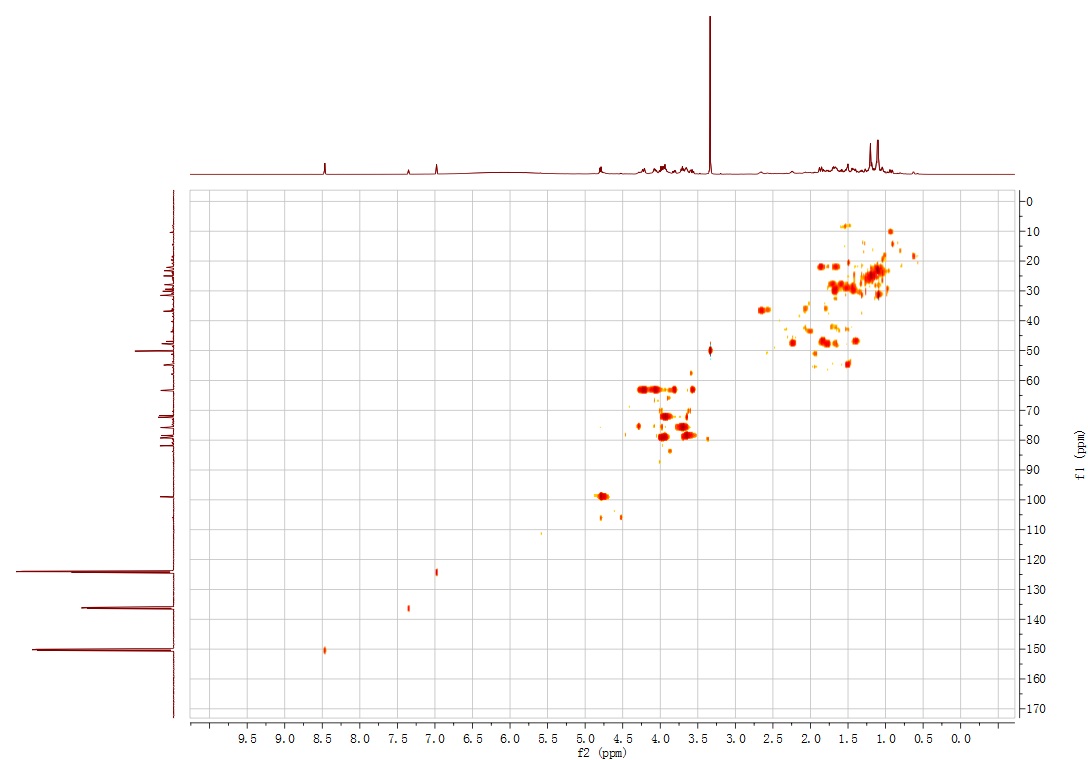
Figure S2. The 1H-1H COSY (**─**), key HMBC correlations (H→C) (a), and key NOESY correlations (H H ) (b) of **2.**



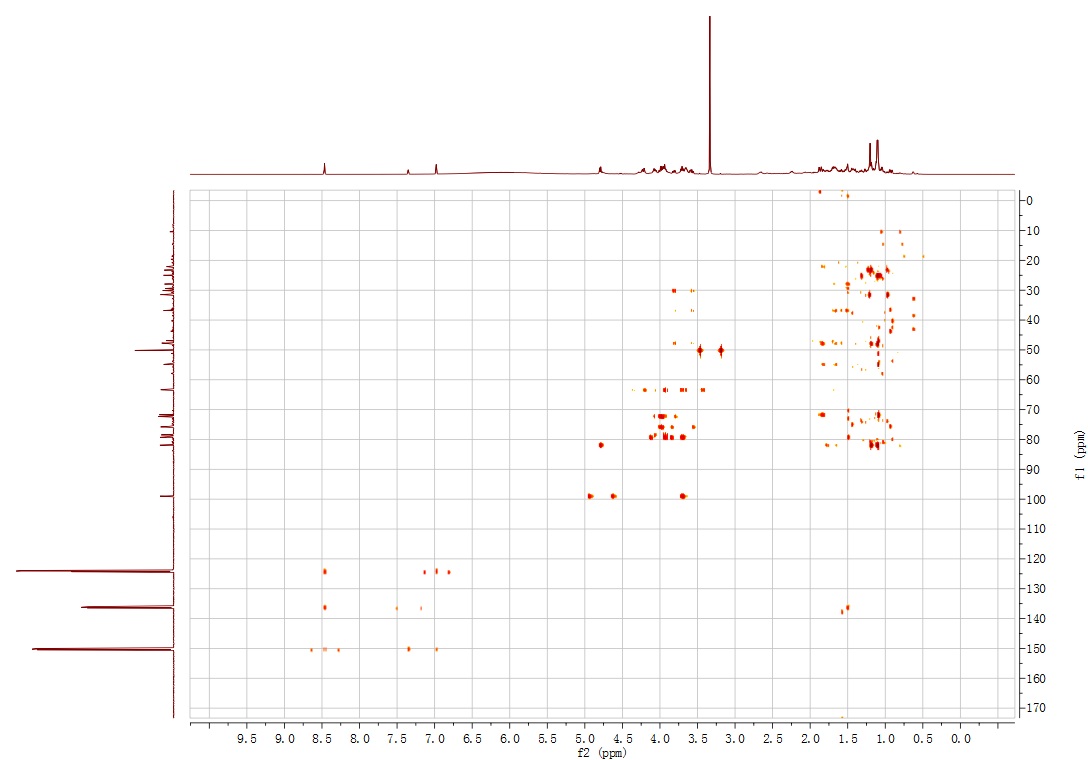
**Figure S3. 1H NMR spectrum of compound 1 in Pyridine-D5**



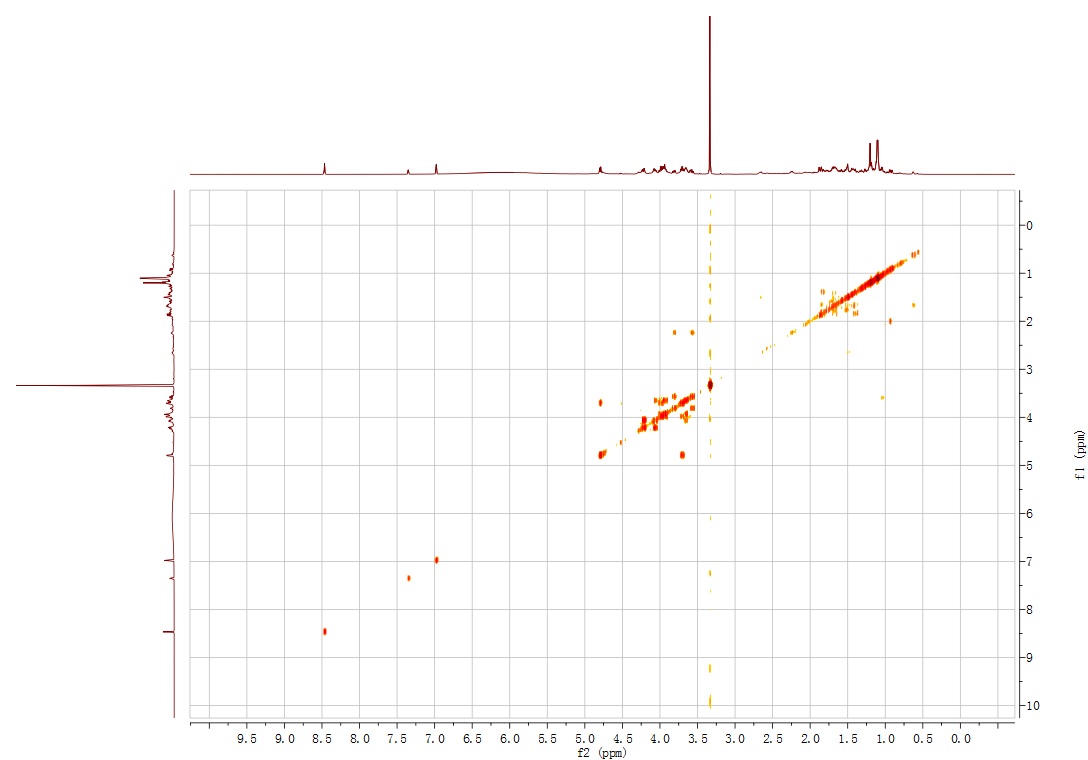
**Figure S4. 13C NMR spectrum of compound 1 in Pyridine-D5**



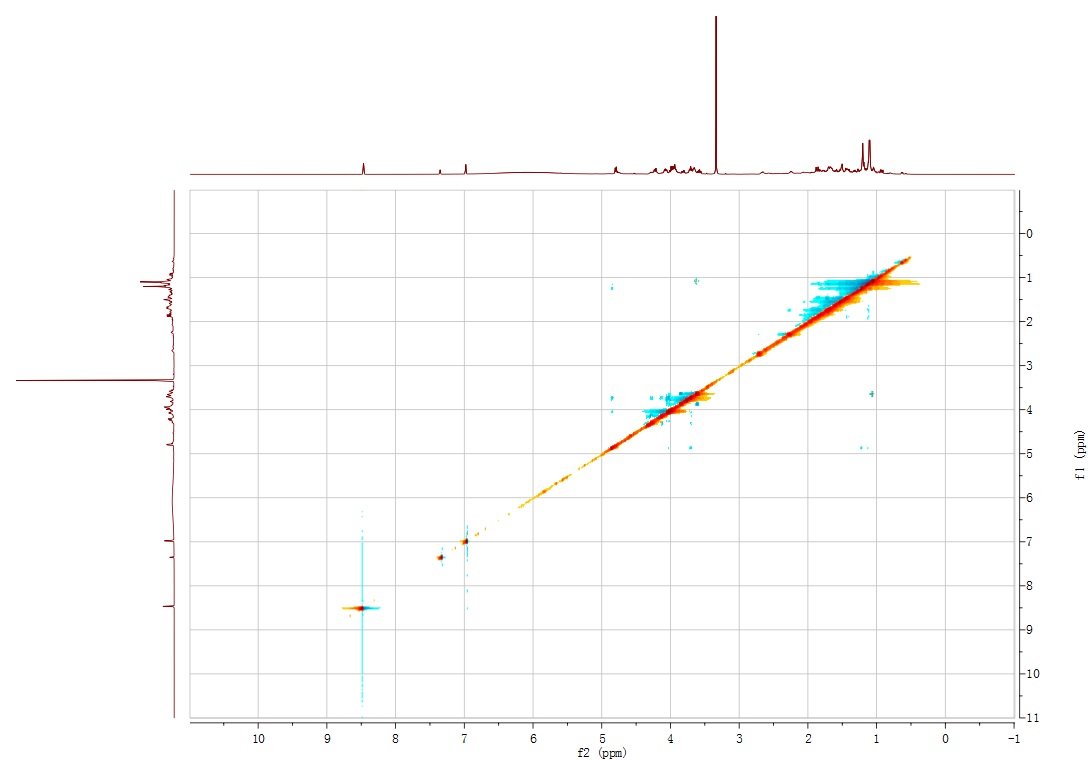
**Figure S5. HMQC spectrum of compound 1 in Pyridine-D5**



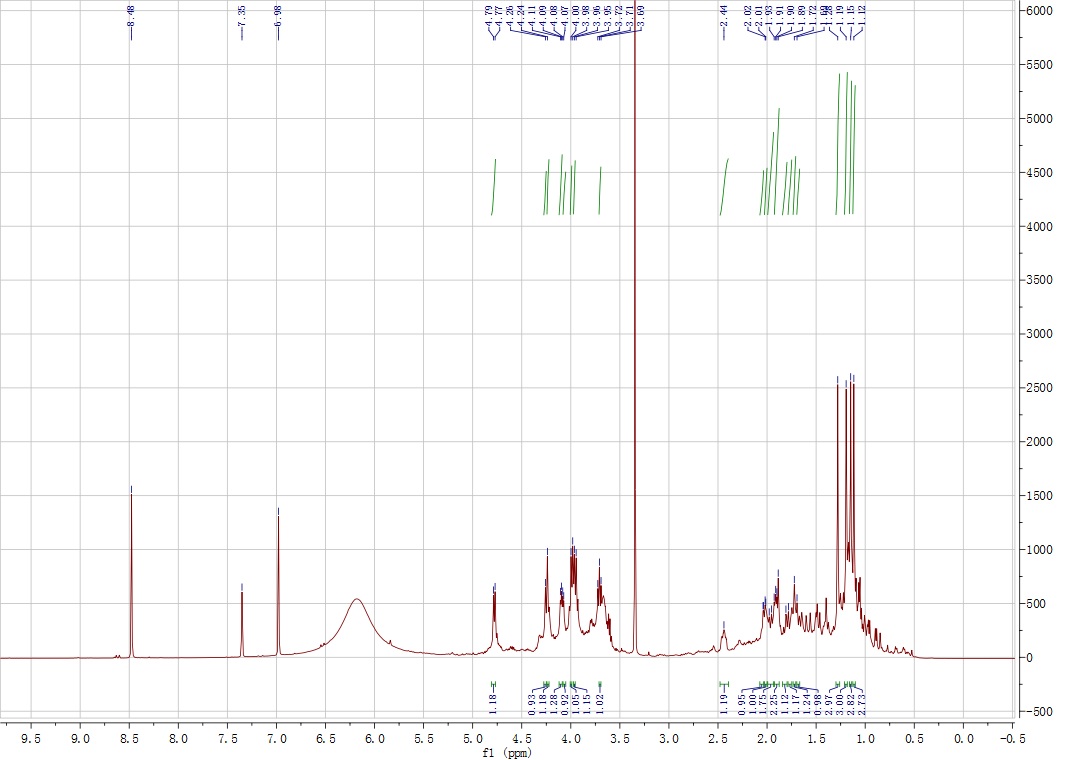
**Figure S6. HMBC spectrum of compound 1 in Pyridine-D5**



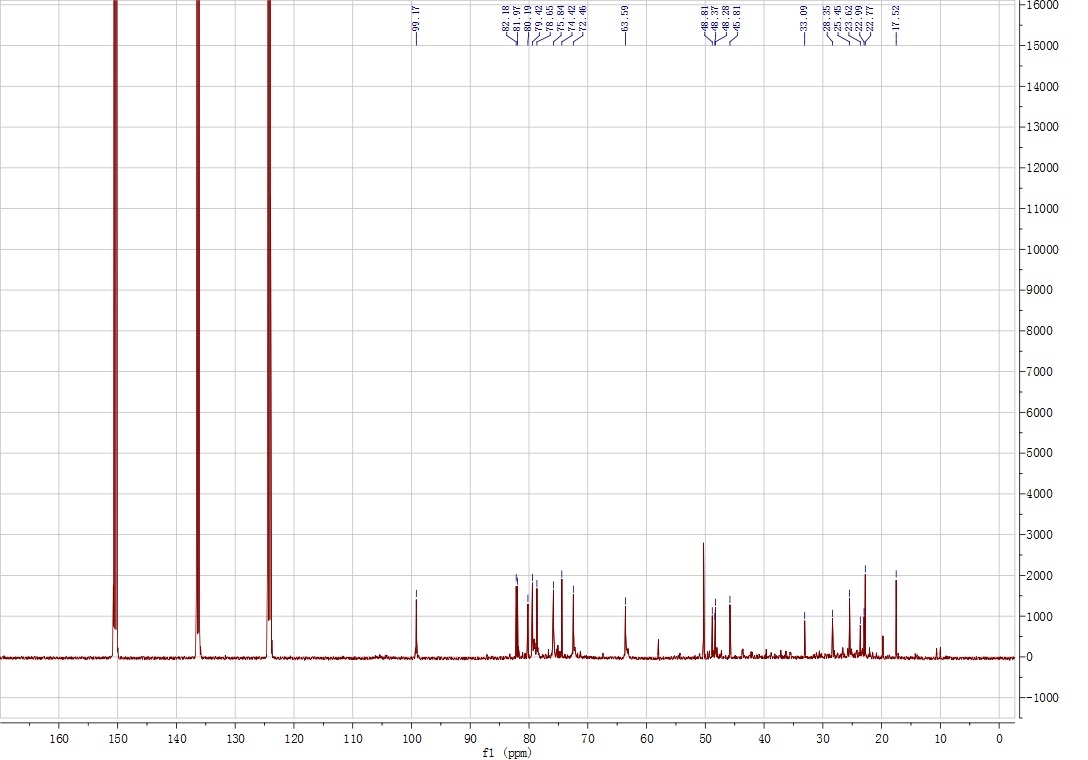
**Figure S7. H-H COSY spectrum of compound 1 in Pyridine-D5**



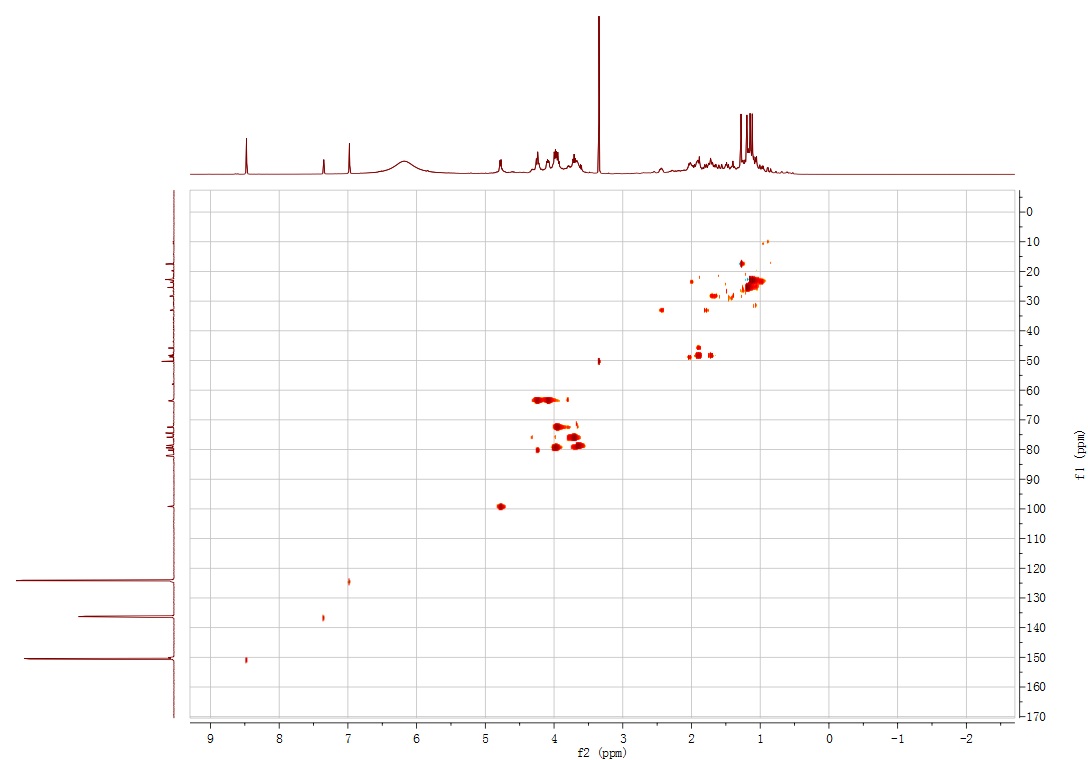
**Figure S8. NOESY spectrum of compound 1 in Pyridine-D5**



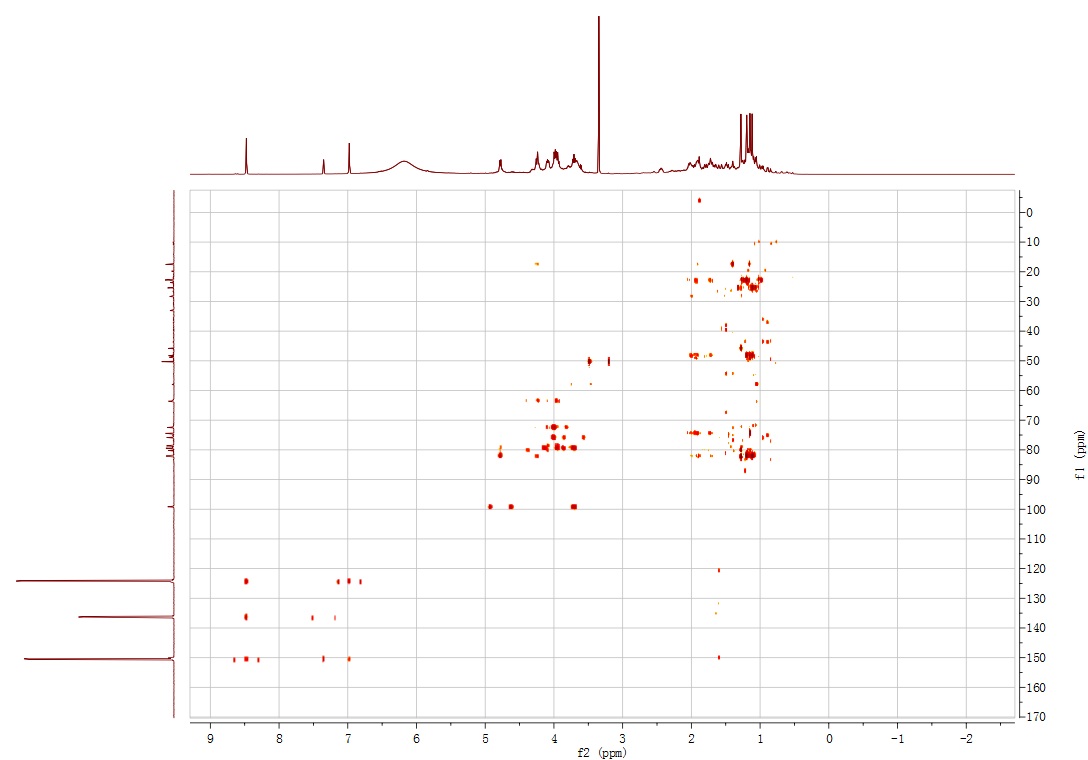
**Figure S9. 1H NMR spectrum of compound 2 in Pyridine-D5**



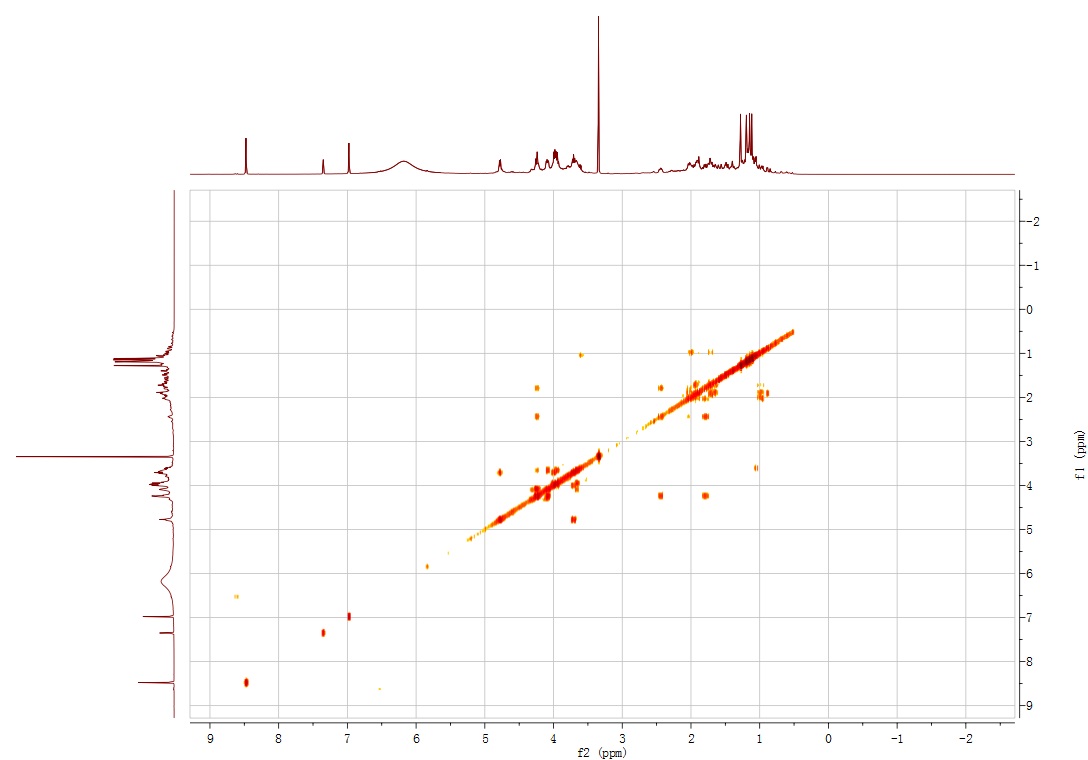
**Figure S10. 13C NMR spectrum of compound 2 in Pyridine-D5**

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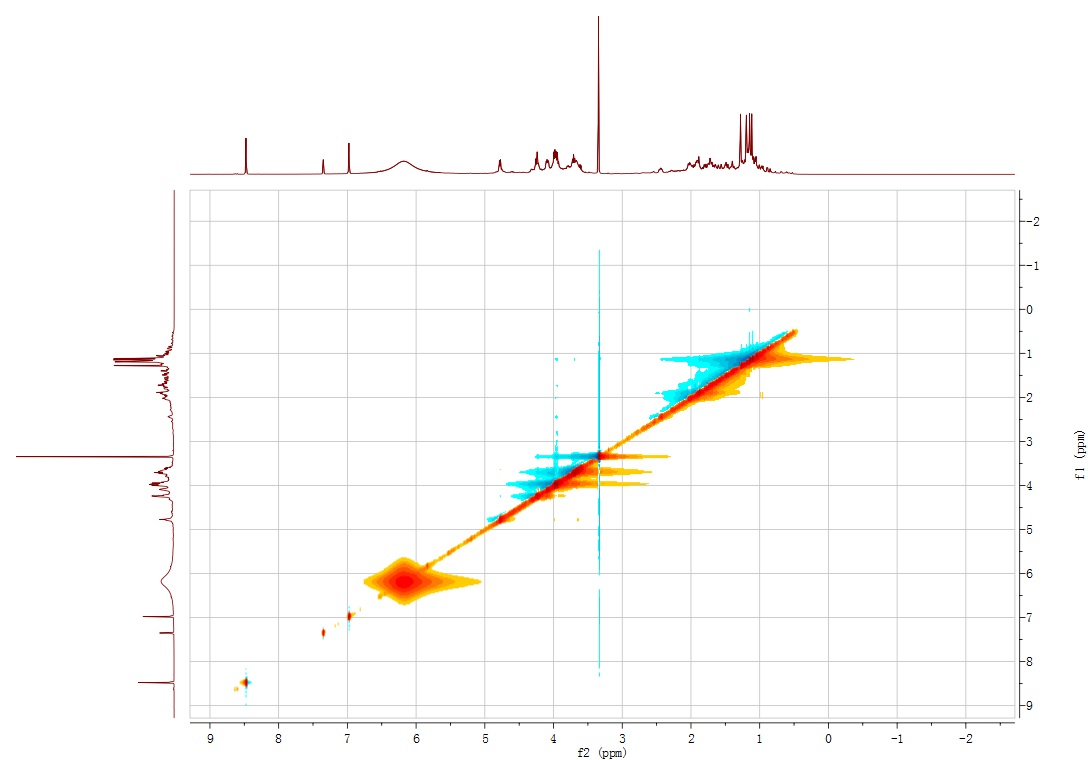
**Figure S11. HMQC spectrum of compound 2 in Pyridine-D5**

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**Figure S12.HMBC spectrum of compound 2 in Pyridine-D5**

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**Figure S13. H-H COSY spectrum of compound 2 in Pyridine-D5**

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**Figure S14. NOESY spectrum of compound 2 in Pyridine-D5**