molecules

Supplementary Information

Identification of isorhynchophylline by NMR

The oxindole alkaloids rhynchophylline and isorhynchophylline belong to *normal serie:* C-3 (α), C-15 (α) and C-20 (β). The ^{13}C-NMR spectrum showed that the chemical displacement of C-3 of isorhynchophylline (δ 72.0) differ from its isomer rhynchophylline (δ 75.3) due the effect of carboxyl group presence into oxindole moiety (Table S1; Figure S4). The ^{1}H NMR spectra confirmed the chemical structure from isorhynchophylline as well (Figure S1-S3).

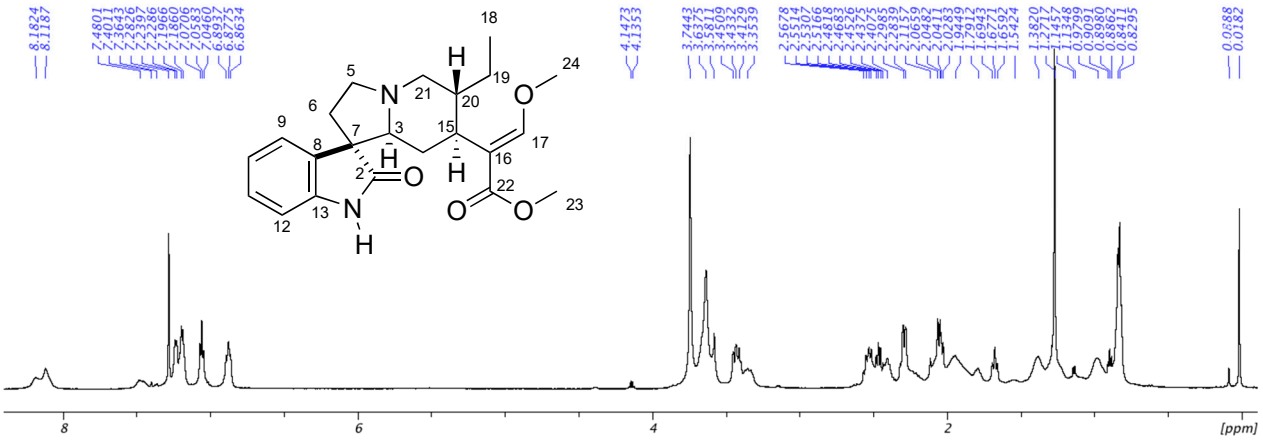

Figure S1. ^{1}H-NMR spectrum of isorhynchophylline (600 MHz, DMSO-d_6).

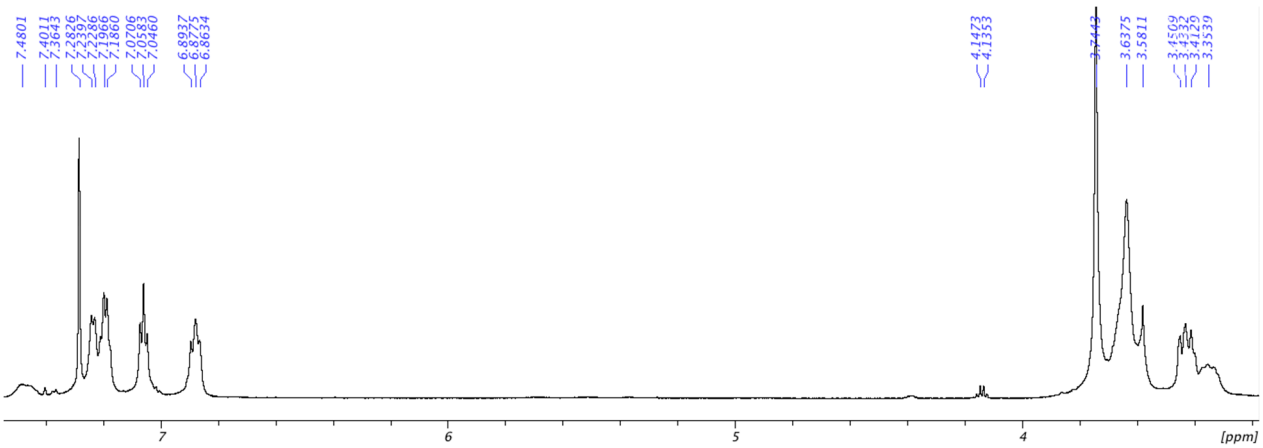

Figure S2. [1]H-NMR spectrum (expanded view) of isorhynchophylline (600 MHz, DMSO-d_6).

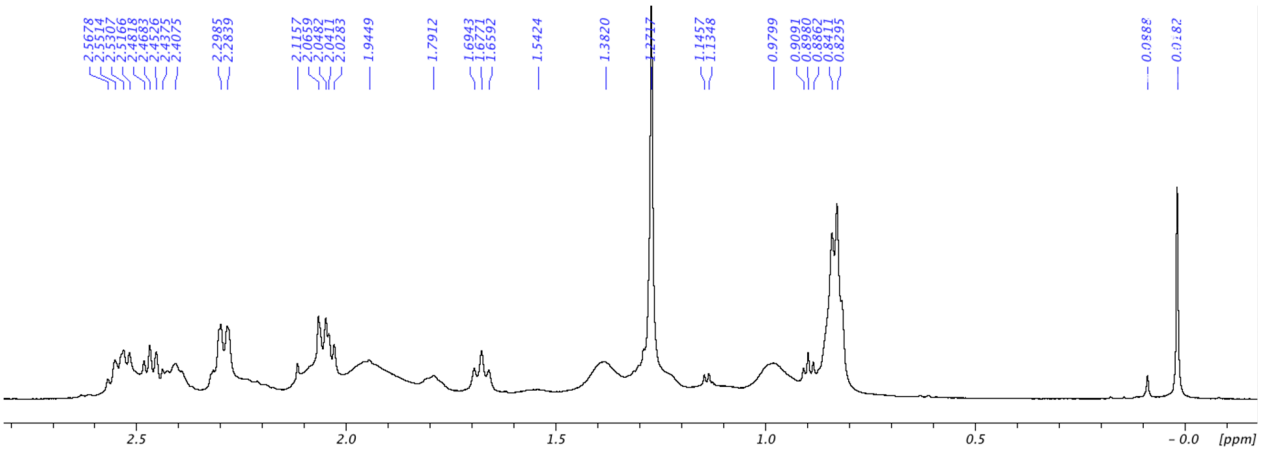

Figure S3.[1]H-NMR spectrum (expanded view) of isorhynchophylline (600 MHz, DMSO-d_6).

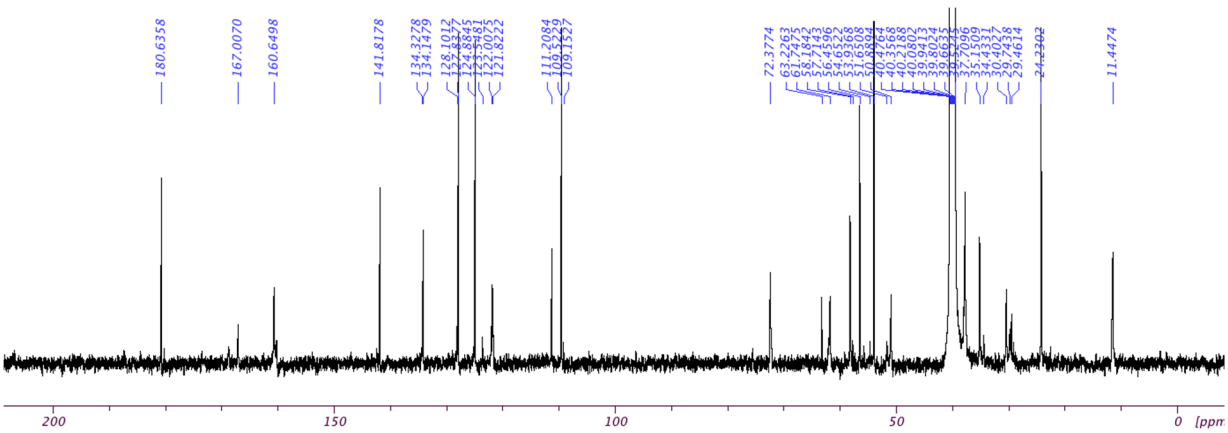

Figure S4. [13]C NMR (150 MHz, DMSO-d_6) spectrum of isorhynchophylline.

Table S1. ^{13}C-NMR spectral data of isorhynchophylline isolated from *U. tomentosa* (150 MHz, DMSO-d_6).

C	*isorhynchophylline*	*isorhynchophylline**	*rhynchophylline**
2	180.6	181.9	181.6
3	72.3	72.3	75.3
5	53.9	54.2	55.0
6	35.1	35.6	34.8
7	56.4	56.8	55.1
8	134.3	134.0	133.9
9	124.8	125.2	123.1
10	121.8	122.3	122.4
11	128.1	127.4	127.7
12	109.5	109.2	109.4
13	141.8	140.1	141.1
14	30.4	30.3	29.0
15	37.7	37.6	37.9
16	111.2	112.4	111.9
17	160.6	159.5	159.7
18	11.4	11.2	11.3
19	24.2	24.2	24.2
20	37.7	38.2	39.7
21	57.7	58.2	58.2
22	167.0	168.0	169.0
23-OCH_3	50.8	50.6	51.1
24- OCH_3	61.7	61.2	61.4
*** literature**			

*Sakakibara, I., Takahashi, H., Terabayashi, S., Yuzurihara, M., Kubo, M., Ishigel, A., Higuchi, M., Komatsu, Y., Okada, M., Maruno, M., Biqiang, C., Jiang, H. X. Effect of oxindole alkaloids from the hooks of *Uncaria macrophylla* on thiopental-induced hypnosis. *Phytomedicine*, 52, 83-86, 1998.