SUPPLEMENTARY MATERIAL

New Glycosylsphingolipids from Psychotria serpens L.

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Abstract

In clinical, Psychotria serpens L. was often substitute for Caulis trachelospermi to treat cancer in China. Meanwhile, EtOAc and n-BuOH fractions of MeOH extract of P. serpens L. show power activity against H460, HepG2, Hela, and PC9/GR cell lines, and no toxic effects against normal 16HBE cell lines. In our ongoing search for bioactive novel compounds from Chinese material medica, one new type of glycosylsphingolipids Psychotramide (1a–1c) were isolated from P. serpens L., and their structures were identified through spectroscopic techniques including NMR (1D and 2D) and MS (LC-MS, and GC-MS).
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**Fig S1.** The key $^1$H-$^1$H COSY and HMBC correlations of compound 1.

**Fig S2.** Acid Hydrolysis of 1 and analysis of hydrolysates.

**Fig S3.** ESI-MS spectrum of degradation for LCB.
Fig S4. GC-MS spectrum of degradation for compound 1.

NMR spectrum of psychotramide 1:

Fig S5. $^1$H NMR of psychotramide (1) (CH$_3$OD)
Fig S6. $^{13}$C NMR and DEPT 135 of psychotramide (1) (CH$_3$OD)

Fig S7. HMQC of psychotramide (1) (CH$_3$OD)
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