SUPPLEMENTARY MATERIAL

One new Berberine from the Branches and Leaves of *P. obliqua* *Hook.f. & Thomson*

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One new alkaloid consanguine B (**1**), together with ten known alkaloids (**2-11**), were isolated from Ethanol extract of the branches and leaves of *P. obliqua* *Hook.f. & Thomson* collected in the Hainan Province, P. R. China. Their structures were elucidated by the detailed analysis of comprehensive spectroscopic data. All compounds were evaluated for their cytotoxic activities. Compound **1** showed weak cytotoxic activities against Hela and MCF-7 human cancer cell lines.

Keywords: *Polyalthia oblique*; alkaloid; cytotoxic activities

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Figure S1 ^1H - ^1H COSY and key HMBC correlations of **1**

Figure S2. The NOESY correlation of **1**

Figure S3. The ^1H NMR (400MHz, $\text{DMSO-}d_6$) of **1**

Figure S4. The ^{13}C NMR (100MHz, $\text{DMSO-}d_6$) of **1**

Figure S5. HMQC spectrum of **1**

Figure S6 HMBC spectrum of **1**

Figure S7 ^1H - ^1H COSY spectrum of **1**

Figure S8 ^1H - ^1H NOESY spectrum of **1**

Figure S9 ^1H - ^1H ROESY spectrum of **1**

Figure S10. The HRESIMS spectrum of **1**

Table S1 Cytotoxic activity results of compounds **1–11**

Compounds	IC ₅₀ (μg/mL)	
	<i>Hela</i>	<i>MCF-7</i>
1	24.1	33.5
2	27.4	36.0
3	26.6	28.1
4	26.7	26.5
5	29.7	27.3
6	31.7	>40
7	>40	>40
8	26.6	28.4
9	30.0	39.2
10	26.6	28.7
11	28.2	29.8
Doxorubicin	0.5	0.85

NO.	δ_{H}	δ_{C}
1	6.77 (s)	112.1, CH
2		146.5, C
3		145.1, C
4	6.75	112.5, CH

5 α	2.96(m)	28.2, CH ₂
5 β	2.76(m)	
6 α	4.64(m)	38.1, CH ₂
6 β	2.92(m)	
8		168.7, C
8a		111.2, C
9		149.4, C
10		145.0, C
11	6.89 (1H, d, J = 8.0 Hz)	119.5, CH
12	6.61 (1H, d, J = 8.0 Hz)	116.7, CH
13 α	3.19 (m)	35.7, CH ₂
13 β	2.68 (m)	
14	4.80 (1H, dd, J = 13.0, 3.6 Hz)	54.2, CH
14a		125.0, C
3-OMe	3.76	55.9, CH ₃

Table S2 compounds **1**(DMSO- d_6) ¹H and ¹³C NMR data(ppm)