SUPPLEMENTARY MATERIAL

Triterpenoids from *Abies faxoniana* and their cytotoxic activities

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ABSTRACT

Two previously unreported triterpenoids (**1** and **2**) and 4 known compounds were isolated from *Abies faxoniana*. Compound **1** has a α,β -unsaturated- γ -lactone ring conjugated with the C-22/23 olefin in the C-17 side-chain. The structures of the new compounds were established on the basis of spectroscopic data analysis. These compounds were tested for their cytotoxicities against six human tumour cell lines. Compound **1** showed cytotoxic activities against MCF-7 and A549 cells with IC₅₀ values of 7.5 and 8.7 μ M, respectively.

KEYWORDS

Abies faxoniana; Pinaceae; cytotoxicity; lanostane

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Figure S1. HRESIMS spectrum of compound **1**

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Figure S17. Key ^1H - ^1H COSY, HMBC, and NOESY correlations for **1**

Figure S18. Key ^1H - ^1H COSY, HMBC, and NOESY correlations for **2**

Table S1 ^1H (500 MHz) and ^{13}C (125 MHz) NMR spectroscopic data for **1** and **2** in CDCl_3

No.	1		2	
	δ_{H}	δ_{C}	δ_{H}	δ_{C}
1	1.59-1.89 (m, 2H)	29.4	1.54-1.84 (m, 2H)	35.4
2	1.61-1.91 (m, 2H)	27.5	1.59-1.95 (m, 2H)	27.8
3	3.43 (br s, 1H)	76.5	3.20 (br s, 1H)	79.2
4		37.0		38.7
5	1.46 (dd, 14.0, 3.5, 1H)	40.5	1.45 (dd, 14.0, 3.5, 1H)	48.5
6	1.84-1.93 (m, 2H)	23.1	1.85-1.93 (m, 2H)	23.0
7	5.63 (dd, 8.4, 2.5, 1H)	121.1	5.55 (dd, 6.5, 3.0, 1H)	121.5
8		147.8		148.6
9	1.97-2.15 (m, 1H)	51.9	1.98-2.18 (m, 1H)	48.3
10		34.8		35.8
11	1.81-2.20 (m, 2H)	25.3	1.40-1.63 (m, 2H)	22.8
12	5.43 (dd, 8.4, 2.5, 1H)	119.1	1.32-1.80 (m, 2H)	33.3
13		155.6		43.5
14		49.6		52.6
15	1.44-1.74 (m, 2H)	36.5	1.40-1.78 (m, 2H)	34.5
16	1.50-1.94 (m, 2H)	45.0	1.44-1.92 (m, 2H)	28.6
17		46.7	1.47-1.49 (m, 1H)	53.3
18	1.24 (s, 3H)	23.0	0.96 (s, 3H)	23.5
19	0.87 (s, 3H)	16.7	0.89 (s, 3H)	16.3
20	1.93-1.97 (m, 1H)	38.4	1.61-1.64 (m, 1H)	36.1
21	0.91 (d, 6.5, 3H)	22.4	0.85 (d, 6.5, 3H)	18.1
22	5.11 (d, 10.6, 1H)	118.6	1.51-1.55 (m, 2H)	35.1
23		146.3	1.96-2.02 (m, 2H)	26.1
24	6.97 (s, 1H)	137.8	6.47-6.49 (m, 1H)	155.5
25		128.8		139.0
26		171.4	9.37 (s, 1H)	195.4
27	1.97 (s, 3H)	10.5	2.07 (s, 3H)	9.1
28	1.04 (s, 3H)	27.3	0.83 (s, 3H)	28.8
29	0.97 (s, 3H)	27.0	0.73 (s, 3H)	24.3
30	1.15 (s, 3H)	28.2	1.73 (s, 3H)	30.4