SUPPLEMENTARY MATERIAL

Eburneolins A and B, New Withanolide glucosides from *Tricholepis eburnea*

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Eburneolins A (**1**) and B (**2**), new withanolide glucosides, have been isolated from the *n*-butanolic fraction of the 75% methanolic extract of aerial parts of *Tricholepis eburnea*. Their structures were elucidated through spectroscopic analysis including ESI-MS, 2D NMR and acid hydrolysis.

Key words: Asteraceae, *Tricholepis eburnea*, withanolide glucosides, eburneolin A, eburneolin B

¹H NMR of Eburneolin A

^{13}C NMR of Eburneolin A

DEPT 90 of Eburneolin A

DEPT 135 of Eburneolin A

HMQC of Eburneolin A

COSY of Eburneolin A

HMBC of Eburneolin A

¹H NMR of Eburneolin B

^{13}C NMR of Eburneolin B

DEPT 90 of Eburneolin B

DEPT 135 of Eburneolin B

HMQC of Eburneolin B

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COSY of Eburneolin B

HMBC of Eburneolin B

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Table S1. ¹H (600 MHz) and ¹³C (125 MHz) NMR in CD₃OD spectral data of compounds **1** and **2**.

C	Compound 1			Compound 2		
	δ_C	Multi	δ_H (J in Hz)	δ_C	Multi	δ_H (J in Hz)
1	214.5	C	---	217.8	C	---
2	46.8	CH ₂	2.73 (1H, m) 2.09 (1H, m)	40.0	CH ₂	2.76 (1H, m), 2.06 (1H, d, $J = 17.3$)
3	76.9	CH	4.00 (1H, m)	15.8	CH	1.31 (1H, m)
4	38.8	CH ₂	2.69 (1H, dd, $J = 6.3, 13.6$) 2.48 (1H, d, $J = 13.6$)	18.1	CH ₂	0.08 (1H, t-like, $J = 4.5$) 0.86 (1H, m)
5	136.4	C	---	53.0	C	---
6	127.0	CH	5.68 (1H, d, $J = 5.2$ Hz)	72.7	CH	3.59 (1H, m)
7	26.4	CH ₂	2.09 (2H, m)	30.0	CH ₂	1.30 (1H, m) 1.24 (1H, m)
8	33.1	CH	2.26 (1H, m)	32.4	CH	---
9	37.1	CH	2.14 (1H, dd, $J = 11.9, 6.3$)	40.8	CH	2.75 (1H, m)
10	54.5	C	---	36.1	C	---
11	23.1	CH ₂	2.08 (1H, m), 1.62 (1H, m)	21.6	CH ₂	2.08 (1H, m) 1.93 (1H, m)
12	33.1	CH ₂	2.34 (1H, ddd, $J = 11.8, 5.7, 5.7$); 1.26 (1H, m)	32.9	CH ₂	2.32 (1H, m) 1.31 (1H, m)
13	55.0	C	---	48.6	C	---
14	84.4	C	---	84.5	C	---
15	76.5	CH	3.82 (1H, dd, $J = 11.7, 6.7$)	32.8	CH ₂	1.81 (1H, m)
16	47.9	CH ₂	2.91 (1H, dd, $J = 16.0, 6.7$) 1.59 (1H, dd, $J = 16.0, 11.7$)	21.9	CH ₂	1.83 (1H, m) 1.32 (1H, m)
17	89.4	C	---	50.2	CH	3.59 (1H, m)
18	20.6	CH ₃	1.33 (3H, s)	17.8	CH ₃	1.38 (3H, s)
19	18.5	CH ₃	1.31 (3H, s)	15.4	CH ₃	1.55 (3H, s)
20	79.7	C	---	75.2	C	---
21	19.7	CH ₃	1.36 (3H, s)	21.5	CH ₃	1.44 (3H, m)
22	82.9	CH	4.84 (1H, br s)	82.3	CH	4.42 (1H, m)
23	35.7	CH ₂	2.63 (1H, br d) 2.51 (1H, br d)	34.4	CH ₂	2.74 (1H, m) 2.37 (1H, m)
24	153.4	C	---	156.9	C	---
25	122.0	C	---	123.7	C	---
26	169.1	C	---	165.8	C	---
27	12.3	CH ₃	1.84 (3H, s)	63.3	CH ₂	5.09 (1H, d, $J = 10.5$) 4.72 (1H, d, $J = 10.5$)
28	20.6	CH ₃	1.95 (3H, s)	20.4	CH ₃	1.83 (3H, s)
1'	103.1	CH	4.36 (1H, d, $J = 7.8$ Hz)	104.9	CH	4.97 (1H, d, $J = 7.8$)
2'	75.0	CH	3.13 (1H, dd, $J = 7.8, 8.6$)	75.2	CH	4.01 (1H, m)
3'	77.9	CH	3.33 (1H, d, $J = 5.2$)	78.6	CH	4.24 (1H, m)
4'	71.6	CH	3.25 (1H, m)	71.7	CH	4.37 (1H, m)
5'	78.0	CH	3.25 (1H, d, $J = 4.6$)	78.5	CH	3.95 (1H, m)
6'	62.7	CH ₂	3.83 (1H, d, $J = 11.6$) 3.63 (1H, dd, $J = 11.6, 4.6$)	62.8	CH ₂	4.53 (1H, dd, $J = 10.8, 4.6$) 4.37 (1H, d, $J = 10.8$ Hz)

Figure S1: HMBC correlations of eburneolins A (1) and B (2)