SUPPLEMENTARY MATERIAL

A new patchoulane-type sesquiterpenoid glycoside from the roots of *Croton crassifolius*

Qing-Qing Yuan^{a,b}, Wei-Bin Song^{a,b}, Wen-Qiong Wang^{a,b} and Li-Jiang Xuan^{a,b}

^a State Key Laboratory of Drug Research, Shanghai Institute of Materia Medica, Chinese Academy of Sciences, 501 Haik Road, Shanghai 201203, People's Republic of China

^b University of Chinese Academy of Sciences, No.19A Yuquan Road, Beijing 100049, People's Republic of China

*Corresponding Author: E-mail: ljxuan@sim.ac.cn

Abstract: A new patchoulane-type sesquiterpenoid glycoside (**1**), together with five known sesquiterpenoids (**2-6**), was isolated from the roots of *Croton crassifolius*. Their structures were elucidated on the basis of spectroscopic methods. This is the first report about the sesquiterpenoid glycoside from *C. crassifolius*. All the isolated compounds **1-6** were evaluated for their cytotoxic activities against human tumour cell lines HL-60 and A549, but none showed significant activity.

Key words: *Croton crassifolius*; sesquiterpenoid glycoside; cytotoxic activity

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Table S1. ^1H (500 MHz) and ^{13}C NMR (126 MHz) data for compound **1** (in $\text{DMSO-}d_6$, J in Hz)

1					
Position	δ_{H}	δ_{C}	Position	δ_{H}	δ_{C}
1		66.5	12	0.76 s	25.3
2a	1.49 dd (13.2, 7.5)	25.5	13	0.96 s	19.2
2b	1.64 dt (13.2, 9.8)				
3a	2.51-2.61 overlapped	36.7	14	0.99 d (6.3)	13.5
3b	2.62-2.70 m				
4		124.6	15		166.0
5		166.2	Glc-1'	4.10 d (7.8)	105.1
6a	2.10-2.18 m	30.9	2'	2.91 dd (8.3, 8.3)	73.9
6b	2.51-2.61 overlapped				
7	1.91 dt (6.6, 3.2)	47.4	3'	3.04-3.13 overlapped	76.6
8a	2.03 ddd (13.4, 7.1, 3.8)	35.5	4'	3.00 dd (9.1, 9.1)	70.2
8b	1.73 ddd (13.4, 10.4, 2.6)				
9	3.04-3.13 overlapped	80.9	5'	3.04-3.13 overlapped	76.9
10	1.97 dd (10.1, 6.3)	42.3	6'	3.64 dd (11.6, 2.1)	61.3
				3.39 dd (11.6, 6.1)	
11		40.9			

Table S2. Cytotoxic activities of the isolated compounds

compound	20(μM) Inh(%)	
	HL-60	A549
1	14.5	4.6
2	10.8	16.8
3	16.1	13.7
4	4.2	2.0
5	0.4	0.8
6	17.2	13.9
cisplatin	96.8	94.5

Figure S1. Key COSY, HMBC and ROESY correlations of compound **1**.

Figure S2. HRESIMS spectrum of **1**

Figure S3. IR spectrum of **1**

Figure S4. ^1H NMR spectrum of **1** (in $\text{DMSO}-d_6$)

Figure S5. ^{13}C NMR spectrum of **1** (in $\text{DMSO}-d_6$)

Figure S6. ^1H - ^1H COSY spectrum of **1** (in $\text{DMSO}-d_6$)

Figure S7. HSQC spectrum of **1** (in $\text{DMSO}-d_6$)

Figure S8. HMBC spectrum of **1** (in DMSO- d_6)

Figure S9. ROESY spectrum of **1** (in DMSO- d_6)