

Supporting Information

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Antioxidant and Cytotoxic Effects of *Moltkia aurea* Boiss

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S:1 ^{13}C and ^1H NMR spectral data for compound **1** (CD_3OD ; ^{13}C : 125 MHz; ^1H : 500 MHz).

C/H Atom	DEPT	δ_{C} ppm	δ_{H} ppm	J (Hz)
Aglycone				
1	CH	55.7	3.14 m	
2	CH	87.2	4.76 d	(4.0)
4	CH ₂	72.9	4.28 dt	(9.0/6.7)
			3.91 dd	(9.1/2.8)
5	CH	55.5	3.14 m	
6	CH	87.6	4.72 d	(4.0)
8	CH ₂	72.9	4.28 dt	(9.0/6.7)
			3.91 dd	(9.1/2.8)
1'	C	139.6		
2'	CH	104.9	6.71 s	
3'	C	154.4		
4'	C	135.6		
5'	C	154.4		
6'	CH	104.9	6.71 s	
OCH ₃	CH ₃	57.1	3.86 s	
1''	C	133.1		
2''	CH	104.5	6.65 s	
3''	C	149.4		
4''	C	136.3		
5''	C	149.4		
6''	CH	104.5	6.65 s	
OCH ₃	CH ₃	56.8	3.84 s	
Glucose				
1'''	CH	105.4	4.86 d	(7.6)
2'''	CH	75.7	3.47 dd	(9.5/7.4)
3'''	CH	77.8	3.41 dd	(9.8/7.1)
4'''	CH	71.3	3.41 dd	(9.8/7.1)
5'''	CH	78.3	3.19 m	
6'''	CH ₂	62.6	3.77 dd	(11.9/2.4)
			3.66 dd	(11.9/5.2)

1. (+)-Syringaresinol-4'-*O*- β -glucopyranoside

S:2 ¹³C and ¹H NMR spectral data for compounds **3-4** (CD₃OD; ¹³C: 125 MHz; ¹H: 500 MHz).

		3			4		
C	DEPT	δ_C ppm	δ_H ppm	<i>J</i> (Hz)	δ_C ppm	δ_H ppm	<i>J</i> (Hz)
Aglycone							
2	C	159.3			158.7		
3	C	135.6			135.5		
4	C	179.4			179.2		
5	C	163.0			163.2		
6	CH	100.0	6.20 d	(2.3)	100.3	6.19 br.s	
7	C	166.3			166.9		
8	CH	94.9	6.40 d	(2.3)	95.1	6.38 br.s	
9	C	158.6			158.6		
10	C	105.5			104.5		
1'	C	123.1			122.9		
2'	CH	117.7	7.66 d	(2.3)	114.5	7.94 d	(1.8)
3'	C [†]	145.9			150.9		
4'	C	149.8			148.3		
5'	CH	116.1	6.86 d	(8.5)	116.1	6.89 d	(8.5)
6'	CH	123.6	7.62 d	(8.5/2.3)	123.9	7.63 dd	(8.5/1.8)
3-OMe	CH ₃	-			56.8	3.73 s	
Glucose							
1''	CH	104.7	5.10 d	(8.0)	104.3	5.21 d	(7.3)
2''	CH	75.7	3.44 dd	(9.6/7.5)	76.2	3.45 dd	(9.8/7.9)
3''	CH	77.2	3.25 [†]		77.7	3.25 [†]	
4''	CH	71.4	3.24 t	(9.7)	71.7	3.24 t	(9.2)
5''	CH	78.4	3.40 m		78.6	3.40 m	
6''	CH ₂	69.7	3.80 dd	(11.6/1.2)	68.5	3.81 dd	(11.6/1.8)
Rhamnose							
1'''	CH	102.4	4.51 br.s		102.6	4.52 d	(1.8)
2'''	CH	72.1	3.60 br.d	(2.9)	72.2	3.63 dd	(3.1/1.8)
3'''	CH	72.2	3.42 dd	(9.7/3.4)	72.3	3.49 dd	(9.8/3.7)
4'''	CH	73.9	3.27 t	(9.7)	73.9	3.25 t	(9.8)
5'''	CH	69.7	3.33 dd	(3.4/1.8)	69.8	3.35 dd	(3.1/1.8)
6'''	CH ₃	17.9	1.11 d	(6.2)	17.9	1.09 d	(6.1)

[†] Signal patterns are unclear due to overlapping. **3.** Quercetin-3-*O*-rutinoside (Rutine)

4. Isorhamnetin-3-*O*-rutinoside