

Table 1. ¹H NMR assignments for Compounds (1)-(8) recorded in DMSO-*d*₆ at 500 MHz.

Position	Eleutherobin (1)	Desmethyleleutherobin (2)	Desacetyeleutherobin (3)	Isoeleutherobin A (4)	Z-Eleutherobin (5)	Caribaeoside (6)	Caribaeolin (7)	Diacetyeleutherobin (8)
1	3.88 (m)	3.95 (m)	3.89 (m)	3.90 (m)	3.92(m)	4.00 (m)	4.01 (m)	3.90 (m)
2	5.39 (d, J=9.4)	5.29 (d, J=9.1)	5.51 (d, J=9.2)	5.54 (d, J=10.1)	5.40 (d, J=9.4)	5.38 (d, J=9.7)	5.38 (d, J=10.0)	5.43 (d, J=9.5)
4-OMe	3.09 (s)		3.09 (s)	3.09 (s)	3.09 (s)	3.08 (s)	3.08 (s)	3.10 (s)
4-OH		6.40 (s)						
5	6.08 (d, J=5.9)	6.07 (d, J=5.6)	6.23 (d, J=6.0)	6.23 (d, J=5.7)	6.07 (d, J=5.6)	6.13 (d, J=5.5)	6.16 (d, J=5.9)	6.08 (d, J=5.9)
6	6.28 (d, J=5.9)	6.11 (d, J=5.6)	6.26 (d, J=6.0)	6.26 (d, J=5.7)	6.18 (d, J=5.6)	6.28 (d, J=5.5)	6.34 (d, J=5.9)	6.30 (d, J=5.9)
7								
8	4.65 (d, J=7.3)	4.61 (d, J=7.2)	4.66 (d, J=6.6)	4.67 (d, J=7.1)	4.66 (d, J=7.2)	4.85 (d, J=7.5)	4.85 (d, J=7.7)	4.66 (d, J=7.6)
9a	1.49 (m)	1.46 (m)	1.51 (m)	1.52 (m)	1.51 (m)	1.56 (m)	1.55 (m)	1.51 (m)
b	1.32 (m)	1.32 (m)	1.41 (m)	1.43 (m)	1.33 (m)	1.38 (m)	1.41 (m)	1.30 (m)
10	2.45 (m)	2.45 (m)	2.46 (m)	2.47 (m)	2.47 (m)	2.07 (m)	2.07 (m)	2.47 (m)
11-OH						4.32 (s)	4.31 (s)	
12	5.27 (m)	5.26 (m)	5.26 (m)	5.28 (m)	5.29 (m)	5.52 (s)	5.53 (m)	5.30 (m)
13a	2.27 (m)	2.28 (m)	2.35 (m)	2.37 (m)	2.28 (m)	5.53 (d, J=6.3)	5.53 (m)	2.29 (m)
b	1.95 (m)	1.95 (m)	1.93 (m)	1.93 (m)	1.95 (m)			1.96 (m)
14	1.14 (m)	1.14 (m)	1.14 (m)	1.14 (m)	1.14 (m)	1.54 (m)	1.54 (m)	1.15 (m)
15a	4.16 (d, J=12.6)	4.24 (d, J=12.5)	4.16 (d, J=12.9)	4.17 (d, J=12.7)	4.15 (d, J=12.6)	4.14 (d, J=12.4)	4.46 (s)	4.24 (d, J=12.7)
b	3.78 (d, J=12.6)	3.77 (d, J=12.5)	3.83 (d, J=12.9)	3.89 (d, J=12.7)	3.78 (d, J=12.6)	3.71 (d, J=12.4)	4.46 (s)	3.85 (d, J=12.7)
16	1.37 (s)	1.35 (s)	1.37 (s)	1.37 (s)	1.36 (s)	1.33 (s)	1.34 (s)	1.38 (s)
17	1.47 (s)	1.47 (s)	1.47 (s)	1.47 (s)	1.49 (s)	0.82 (s)	0.77 (s)	1.48 (s)
18	1.45 (m)	1.46 (m)	1.49 (m)	1.48 (m)	1.47 (m)	1.68 (m)	1.69 (m)	1.49 (m)
19	0.93 (d, J=6.6)	0.93 (d, J=6.7)	0.94 (d, J=6.9)	0.94 (d, J=6.6)	0.95 (d, J=6.6)	0.94 (d, J=6.8)	0.95 (d, J=6.6)	0.93 (d, J=7.0)
20	0.91 (d, J=6.6)	0.92 (d, J=6.7)	0.92 (d, J=6.9)	0.92 (d, J=6.6)	0.93 (d, J=6.6)	0.95 (d, J=6.8)	0.96 (d, J=6.6)	0.92 (d, J=7.0)
2'	6.35 (d, J=15.6)	6.34 (d, J=15.5)	6.35 (d, J=15.7)	6.35 (d, J=15.4)	5.75 (d, J=12.6)	6.36 (d, J=15.5)	6.35 (d, J=15.7)	6.35 (d, J=15.6)
3'	7.53 (d, J=15.6)	7.51 (d, J=15.5)	7.53 (d, J=15.7)	7.53 (d, J=15.4)	6.94 (d, J=12.6)	7.52 (d, J=15.5)	7.53 (d, J=15.7)	7.53 (d, J=15.6)
5'	7.57 (s)	7.57 (s)	7.56 (s)	7.57 (s)	8.25 (s)	7.57 (s)	7.56 (s)	7.56 (s)
6'-NMe	3.66 (s)	3.66 (s)	3.66 (s)	3.66 (s)	3.71 (s)	3.66 (s)	3.66 (s)	3.66 (s)
7'	7.69 (s)	7.68 (s)	7.68 (s)	7.70 (s)	7.69 (s)	7.69 (s)	7.68 (s)	7.68 (s)
1''	4.70 (d, J=3.0)	4.71 (d, J=3.2)	4.57 (br.d)	4.64 (d, J=3.2)	4.70 (d, J=3.0)	4.76 (d, J=3.3)		4.87 (d, J=3.4)
2''	4.82 (dd, J=3.0,9.4)	4.82 (dd, J=3.2,10.0)	3.55 (m)	3.81 (m)*	4.82 (dd, J=3.0,9.6)	4.82 (m)		4.96 (dd, J=3.4,10.7)
3''	3.73 (m)	3.73 (m)	3.55 (m)	4.80 (dd, J=2.6,10.1)	3.76 (m)	3.74 (m)		5.22 (m)
4''	3.76 (m)	3.76 (m)	3.66 (m)	3.83 (m)*	3.78 (m)	3.76 (m)		5.22 (m)
5''eq	3.59 (d, J=11.8)	3.62 (d, J=11.9)	3.54 (d, J=12.3)	3.62 (d, J=12.2)	3.59 (d, J=12.0)	3.59 (d, J=12.4)		3.85 (d, J=12.8)
ax	3.44 (dd, J=11.8,2.2)	3.44 (dd, J=11.9,2.6)	3.37 (dd, J=12.3,3.3)	3.38 (m)	3.44 (dd, J=12.0,2.1)	3.47 (m)		3.60 (dd, J=12.8,1.5)
2''-OH			*	4.90 (d, J=5.8)*				
3''-OH	4.83 (d, J=3.2)	4.78 (d, J=3.6)	*		4.81 (d, J=2.8)	4.84 (br.d)*		
4''-OH	4.92 (d, J=6.0)	4.88 (d, J=6.4)	*	4.96 (br.d)*	4.90 (d, J=6.0)	4.92 (d, J=5.8)*		
2''-OAc	2.01 (s)	2.01 (s)			2.00 (s)	2.03 (s)	1.97 (s)	2.08 (s)*
3''-OAc				2.01 (s)				2.02 (s)*
4''-OAc								1.95 (s)*

*tentative assignment or assignments not possible due to signal overlap or poor signal to noise resulting from small sample size