Daphniglaucins A & B, Novel Polycyclic Quaternary Alkaloids from *Daphniphyllum glaucescens*

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Supporting Information

- Figure S1. ¹H NMR spectrum of daphniglaucin A (**1**) in CD₃OD.
Figure S2. ¹³C NMR spectrum of daphniglaucin A (**1**) in CD₃OD.
Figure S3. ¹H-¹H COSY spectrum of daphniglaucin A (**1**) in CD₃OD.
Figure S4. NOESY spectrum of daphniglaucin A (**1**) in CD₃OD.
Figure S5. HOHAHA spectrum of daphniglaucin A (**1**) in CD₃OD.
Figure S6. HMQC spectrum of daphniglaucin A (**1**) in CD₃OD.
Figure S7. HMBC spectrum of daphniglaucin A (**1**) in CD₃OD.
Figure S8. ¹H NMR spectrum of daphniglaucin B (**2**) in CD₃OD.
Figure S9. ¹³C NMR spectrum of daphniglaucin B (**2**) in CD₃OD.
Figure S10. ¹H and ¹³C NMR Data of daphniglaucins A (**1**) and B (**2**) in CD₃OD.

Figure S1. ^1H NMR spectrum of daphniglaucin A (1) in CD_3OD .

Figure S2. ¹³C NMR spectrum of daphniglaucin A (1) in CD₃OD.

Figure S3. ^1H - ^1H COSY spectrum of daphniglaucin A (**1**) in CD_3OD .

Figure S4. NOESY spectrum of daphniglaucin A (**1**) in CD₃OD.

Figure S5. HOHAHA spectrum of daphniglaucin A (**1**) in CD₃OD.

Figure S6. HMQC spectrum of daphniglaucin A (**1**) in CD₃OD.

Figure S7. HMBC spectrum of daphniglaucin A (**1**) in CD₃OD.d

Figure S8. ^1H NMR spectrum of daphniglaucin B (2) in CD_3OD .

Figure S9. ^{13}C NMR spectrum of daphniglaucin B (**2**) in CD_3OD .

Table 1. ¹H and ¹³C NMR Data of Daphniglaucin A (1) in CD₃OD at 300K

	δ_H	δ_C	HMBC (¹ H)
1	3.86 (1H, brs)	89.1	3a, 4, 7, 13, 19
2	2.63 (1H, brs)	44.2	3, 4, 20
3a	2.00 (1H, dd, 6.7, 14.3)	19.5	1
3b	2.15 (1H, m)		
4	3.99 (1H, brd, 6.4)	82.8	1, 3a, 19, 21
5		59.2	1, 3, 6, 7, 13b, 21
6	3.08 (1H, m)	40.9	7, 21
7	3.64 (2H, m)	51.5	6, 12b, 19b
8		48.4	4, 6, 13
9		144.0	1, 11, 13a, 16b, 17a
10		136.1	11, 16b, 17a
11	2.17 (2H, m)	26.1	6, 12
12a	1.87 (1H, m)	22.3	6, 7
12b	2.06 (1H, dt, 5.9, 14.9)		
13a	2.19 (1H, m)	36.7	
13b	2.33 (1H, m)		
14	2.96 (1H, dt, 11.3, 8.3)	42.2	13, 16a
15	3.37 (1H, m)	54.0	13a, 14, 16, 17a
16a	1.25 (1H, m)	29.5	17a
16b	1.92 (1H, m)		
17a	2.31 (1H, m)	42.6	16a
17b	2.58 (1H, m)		
18	2.64 (1H, m)	35.3	3, 19b, 20
19a	3.68 (1H, m)	58.4	18, 20
19b	3.10 (1H, m)		
20	1.12 (3H, d, 6.5)	16.0	19a
21	3.80 (1H, d, 12.0)	56.2	
	3.88 (1H, d, 12.0)		
22		176.1	13, 14, 23
23	3.65 (3H, s)	52.0	

Table 2. ¹H and ¹³C NMR Data of Daphniglaucin B (2) in CD₃OD at 300K

	δ_H	δ_C	HMBC (¹ H)
1		119.4	3, 4, 7a, 13, 19a, 24
2	3.08 (1H, brs)	44.7	3, 4, 20
3	2.15 (2H, m)	18.8	
4	3.93 (1H, brs)	77.2	3, 19, 21
5		59.6	3, 6, 7a, 12a, 13, 21
6	3.09 (1H, m)	42.2	4, 21
7a	3.33 (1H, m)	46.7	6, 12b
7b	3.65 (1H, m)		
8		48.8	4, 6, 13, 21
9		141.8	13a, 16b
10		140.4	16b, 17b
11	2.22 (2H, m)	26.1	6, 12
12a	1.79 (1H, m)	22.7	6, 7b, 11
12b	2.03 (1H, dt, 4.4, 14.7)		
13a	2.40 (1H, m)	38.2	
13b	2.72 (1H, dd, 5.8, 14.8)		
14	2.99 (1H, m)	43.3	13, 15, 16a
15	3.45 (1H, m)	56.4	13, 14, 16, 17
16a	1.28 (1H, m)	29.5	17b
16b	1.94 (1H, m)		
17a	2.74 (1H, m)	44.1	16
17b	2.37 (1H, m)		
18	2.87 (1H, m)	33.0	3, 19, 20
19a	3.61 (1H, t, 11.3)	56.9	2, 7, 20
19b	3.19 (1H, dd, 7.0, 11.9)		
20	1.19 (3H, d, 6.8)	13.5	19
21a	3.85 (1H, d, 12.1)	57.0	4
21b	3.92 (1H, d, 12.1)		
22		176.3	13, 14, 23
23	3.66 (3H, s)	51.9	
24	3.70 (3H, s)	57.9	

Figure S10. ¹H and ¹³C NMR Data of daphniglaucins A (1) and B (2) in CD₃OD.