

The chemical shift assignments of carbon and proton signals of **Dioscin G**  
 (Compound 7) in Pyridine-*d*<sub>5</sub>.

Carbon NO.		<b>Dioscin G</b>
	$\delta_{\text{C}}$ (ppm)	$\delta_{\text{C}}$ (ppm, <i>J</i> in Hz)
1	37.07	0.92 (H <sub>2</sub> -1, m)
2	30.14	1.91 (H <sub>1</sub> -2a, m), 2.14 (H <sub>1</sub> -2b, m)
3	78.55	3.93 (H <sub>1</sub> -3, m)
4	38.92	2.75 (H <sub>1</sub> -4a, t, <i>J</i> =11.5 Hz), 2.81 (H <sub>1</sub> -4b, dd, <i>J</i> =12.4, 3.8 Hz)
5	140.73	
6	121.72	5.29 (H <sub>1</sub> -6, d, <i>J</i> =4.6 Hz)
7	32.27	1.91 (H <sub>1</sub> -7a, m), 2.03 (H <sub>1</sub> -7b, m)
8	31.61	1.45 (H <sub>1</sub> -8, m)
9	50.25	0.92 (H <sub>1</sub> -9, m)
10	39.86	
11	21.03	1.45 (H <sub>2</sub> -11, m)
12	37.45	2.03 (H <sub>2</sub> -12, m)
13	40.71	
14	56.52	1.13 (H <sub>1</sub> -14, m)
15	32.41	1.45 (H <sub>1</sub> -15a, m), 2.03 (H <sub>1</sub> -15b, m)
16	81.03	4.98 (H <sub>1</sub> -16, m)
17	63.77	1.91 (H <sub>1</sub> -17, m)
18	16.4	0.9 (H <sub>3</sub> -18, s)
19	19.35	1.05 (H <sub>3</sub> -19, s)
20	40.62	2.22 (H <sub>1</sub> -20, m)
21	16.4	1.33 (H <sub>3</sub> -21, d, <i>J</i> =6.9 Hz)
22	110.57	
23	37.15	1.72 (H <sub>1</sub> -23a, m), 2.03 (H <sub>1</sub> -23b, m)
24	28.29	1.67 (H <sub>1</sub> -24a, m), 2.03 (H <sub>1</sub> -24b, m)
25	34.22	1.91 (H <sub>1</sub> -25, m)
26	75.14	3.62 (H <sub>1</sub> -26a, m), 4.29 (H <sub>1</sub> -26b, m)
27	17.41	0.98 (H <sub>3</sub> -27, d, <i>J</i> =6.7 Hz)
3-O-Glc-1'	100.28	5.05 (1H, d, <i>J</i> =7.7 Hz)
2'	77.71	4.29 (1H, m)
3'	78.24	4.29 (1H, m)
4'	71.6	4.24 (1H, m)
5'	78.44	4.19 (1H, m)
6'	62.57	4.38 (1H, m), 4.64 (1H, m)
Rha(1→2) 1"	102.01	6.4 (1H, s)
2"	71.72	4.24 (1H, m)
3"	72.54	4.64 (1H, m)
4"	72.78	4.64 (1H, m)
5"	69.44	4.98 (1H, m)
6"	18.63	1.78 (d, <i>J</i> =6.2 Hz)
26-O-Glc-1'''	104.89	4.81 (1H, d, <i>J</i> =7.7 Hz)

2"	75.2	4.24 (1H, m)
3"	79.61	4.29 (1H, m)
4"	74.1	4.03 (1H, m)
5"	77.84	4.29 (1H, m)
6"	62.73	4.53 (1H, m), 4.64 (1H, m)

The chemical shift assignments of carbon and proton signals of **Dioscin H** (Compound **8**) in Pyridine-*d*<sub>5</sub>.

Dioscin H		
	$\delta_{\text{C}}$ (ppm)	$\delta_{\text{C}}$ (ppm)
1	37.07	0.92 (H <sub>2</sub> -1, m)
2	30.14	1.91 (H <sub>1</sub> -2a, m), 2.14 (H <sub>1</sub> -2b, m)
3	78.55	3.93 (H <sub>1</sub> -3, m)
4	38.92	2.75 (H <sub>1</sub> -4a, t, <i>J</i> =11.5 Hz), 2.81 (H <sub>1</sub> -4b, dd, <i>J</i> =12.4, 3.8 Hz)
5	140.73	
6	121.72	5.29 (H <sub>1</sub> -6, d, <i>J</i> =4.6 Hz)
7	32.27	1.91 (H <sub>1</sub> -7a, m), 2.03 (H <sub>1</sub> -7b, m)
8	31.61	1.45 (H <sub>1</sub> -8, m)
9	50.25	0.92 (H <sub>1</sub> -9, m)
10	39.86	
11	21.03	1.45 (H <sub>2</sub> -11, m)
12	37.45	2.03 (H <sub>2</sub> -12, m)
13	40.71	
14	56.52	1.13 (H <sub>1</sub> -14, m)
15	32.41	1.45 (H <sub>1</sub> -7a, m), 2.03 (H <sub>1</sub> -7b, m)
16	81.03	4.98 (H <sub>1</sub> -16, m)
17	63.77	1.91 (H <sub>1</sub> -17, m)
18	16.4	0.9 (H <sub>3</sub> -18, s)
19	19.35	1.05 (H <sub>3</sub> -19, s)
20	40.62	2.22 (H <sub>1</sub> -20, m)
21	16.4	1.33 (H <sub>3</sub> -21, d, <i>J</i> =6.9 Hz)
22	110.57	
23	37.15	1.72 (H <sub>1</sub> -23a, m), 2.03 (H <sub>1</sub> -23b, m)
24	28.29	1.67 (H <sub>1</sub> -28a, m), 2.03 (H <sub>1</sub> -28b, m)
25	34.22	1.91 (H <sub>1</sub> -25, m)
26	75.14	3.62 (H <sub>1</sub> -26a, m), 4.29 (H <sub>1</sub> -26b, m)
27	17.41	0.98 (H <sub>3</sub> -27, d, <i>J</i> =6.7 Hz)
<b>3-O-Glu-1'</b>	100.28	5.05 (1H, d, <i>J</i> =7.7 Hz)
2'	77.71	4.29 (1H, m)
3'	78.24	4.29 (1H, m)
4'	71.6	4.24 (1H, m)
5'	78.44	4.19 (1H, m)
6'	62.57	4.38 (1H, m), 4.64 (1H, m)

<b>Rha(1→2) 1"</b>	102.01	6.4 (1H, s)
2"	71.72	4.24 (1H, m)
3"	72.54	4.64 (1H, m)
4"	72.78	4.64 (1H, m)
5"	69.44	4.98 (1H, m)
6"	18.63	1.78 (d, $J=6.2$ Hz)
<b>26-O-Glu-1'''</b>	104.89	4.81 (1H, d, $J=7.7$ Hz)
2'''	75.2	4.24 (1H, m)
3'''	79.61	4.29 (1H, m)
4'''	74.1	4.03 (1H, m)
5'''	77.84	4.29 (1H, m)
6'''	62.73	4.53 (1H, m), 4.64 (1H, m)

The chemical shift assignments of carbon and proton signals of **Dioscin I** (Compound **9**) in Pyridine- $d_5$ .

Carbon NO.	<b>Dioscin I</b>	
	$\delta_C$ (ppm)	$\delta_C$ (ppm)
1	37.38	1.69 (H <sub>2</sub> -1, m)
2	30.02	2.08 (H <sub>2</sub> -2, m)
3	78.14	4.25 (H <sub>1</sub> -3, m)
4	38.8	2.73 (H <sub>2</sub> -4, m)
5	140.63	
6	121.72	5.27 (H <sub>1</sub> -6, br.s)
7	32.35	1.86 (H <sub>1</sub> -7a, m), 2.03 (H <sub>1</sub> -7b, m)
8	31.55	1.55 (H <sub>1</sub> -8, m)
9	50.22	0.93 (H <sub>1</sub> -9, m)
10	39.8	
11	20.98	1.45 (H <sub>2</sub> -11, m)
12	37	2.03 (H <sub>2</sub> -12, m)
13	40.55	
14	56.46	1.11 (H <sub>1</sub> -14, m)
15	32.21	1.45 (H <sub>1</sub> -15a, m), 2.03 (H <sub>1</sub> -15b, m)
16	80.98	4.95 (H <sub>1</sub> -16, m)
17	63.7	1.93 (H <sub>1</sub> -17, m)
18	16.34	0.89 (H <sub>3</sub> -18, s)
19	19.28	1.05 (H <sub>3</sub> -19, s)
20	40.67	2.23 (H <sub>1</sub> -20, m)
21	16.34	1.34 (H <sub>3</sub> -21, d, $J=6.8$ Hz)
22	110.56	
23	37.06	1.74 (H <sub>1</sub> -23a, m), 2.03 (H <sub>1</sub> -23b, m)
24	28.23	1.69 (H <sub>1</sub> -24a, m), 2.03 (H <sub>1</sub> -24b, m)
25	34.15	1.93 (H <sub>1</sub> -25, m)
26	75.15	3.62 (H <sub>1</sub> -26a, m), 4.25 (H <sub>1</sub> -26b, m)

27	17.35	0.99 ( $H_3$ -27, d, $J=6.6$ Hz)
3-O-Glu-1'	99.83	4.95 (1H, d, $J=6.54$ Hz)
2'	78.02	4.06 (1H, m)
3'	76.11	3.86 (1H, m)
4'	81.32	4.25 (1H, m)
5'	77.13	4.25 (1H, m)
6'	61.34	4.39 (1H, m), 4.56 (1H, m)
Glu(1→4) 1"	104.4	5.10 (1H, d, $J=7.8$ Hz)
2"	73.96	4.39 (1H, m)
3"	88.07	4.17 (1H, m)
4"	69.18	4.17 (1H, m)
5"	77.47	3.86 (1H, m)
6"	61.6	4.39 (1H, m), 4.56 (1H, m)
Glu(1→3) 1""	105.72	5.30 (1H, d, $J=7.2$ Hz)
2""	75.42	4.24 (1H, m)
3""	77.84	3.86 (1H, m)
4""	71.46	4.25 (1H, m)
5""	78.54	4.06 (1H, m)
6""	62.36	4.39 (1H, m), 4.56 (1H, m)
Rha(1→2)1"""	101.67	6.25 (1H, br.s)
2"""	72.3	4.74 (1H, br.s)
3"""	72.62	4.56 (1H, m)
4"""	73.65	4.06 (1H, m)
5"""	69.36	4.95 (1H, m)
6"""	18.53	1.77 (3H, d, $J=6.1$ Hz)
26-O-Glu-1""""	104.78	4.82 (1H, d, $J=7.6$ Hz)
2""""	75.05	4.06 (1H, m)
3""""	78.45	4.25 (1H, m)
4""""	71.55	4.25 (1H, m)
5""""	78.33	4.06 (1H, m)
6""""	62.67	4.39 (1H, m), 4.56 (1H, m)