

Biotransformation of Ganoderic Acid A to 3-O-Acetyl Ganoderic Acid A by Soil-isolated *Streptomyces* sp.

Te-Sheng Chang ^{1,*}, Horng-Huey Ko ², Tzi-Yuan Wang ³, Chun-Hsien Lee ¹ and Jiumn-Yih Wu ^{4,*}

Table S1. NMR spectroscopic data for compound (1) (in MeOH-d₄; 600MHz).

Position	δ_C	type	δ_H (J in Hz)	HMBC
1	35.9	CH ₂	1.01, m; 2.76, dt (13.8, 3.6)	C-2
2	25.0	CH ₂	1.67, m; 1.71, m	
3	81.7	CH	4.45, dd, (12.0, 5.4)	C-2, C-29, C-31
4	38.6	C		
5	50.5	CH	1.05, dd, (13.2, 1.2)	
6	28.8	CH ₂	1.62, m; 2.11, ddd, (12.6, 7.2, 1.2)	C-5, C-7, C-10
7	70.0	CH	4.56, dd, (10.2, 7.2)	C-6
8	161.4	C		
9	142.7	C		
10	39.6	C		
11	202.2	C		
12	53.1	CH ₂	2.40, d, (15.6); 2.88, dd, (15.6, 1.2)	C-11, C-13, C-14
13	48.4	C		
14	55.4	C		
15	73.2	CH	4.77, dd, (9.0, 7.2)	C-28
16	37.1	CH ₂	1.81, m	C-14, C-15, C-20
17	49.6	CH	1.88, m	
18	17.6	CH ₃	0.98, s	C-12, C-13, C-14, C-17
19	19.8	CH ₃	1.29, s	C-1, C-9, C-10
20	33.8	CH	2.01, m	
21	20.0	CH ₃	0.87, d, (6.6)	C-17, C-20, C-22
22	50.6	CH ₂	2.28, dd, (10.2, 9.6)	C-23
23	211.7	C		
24	47.5	CH ₂	2.49, m	C-23, C-25
25	36.7	CH	2.82, m	C-23, C-26
26	180.5	C		
27	17.7	CH ₃	1.16, d, (7.2)	C-26
28	19.9	CH ₃	1.26, s	C-13, C-14, C-15
29	17.2	CH ₃	0.95, s	C-3
30	28.5	CH ₃	0.93, s	C-3, C-5
31	172.8	C		
32	21.1	CH ₃	2.03, s	C-31

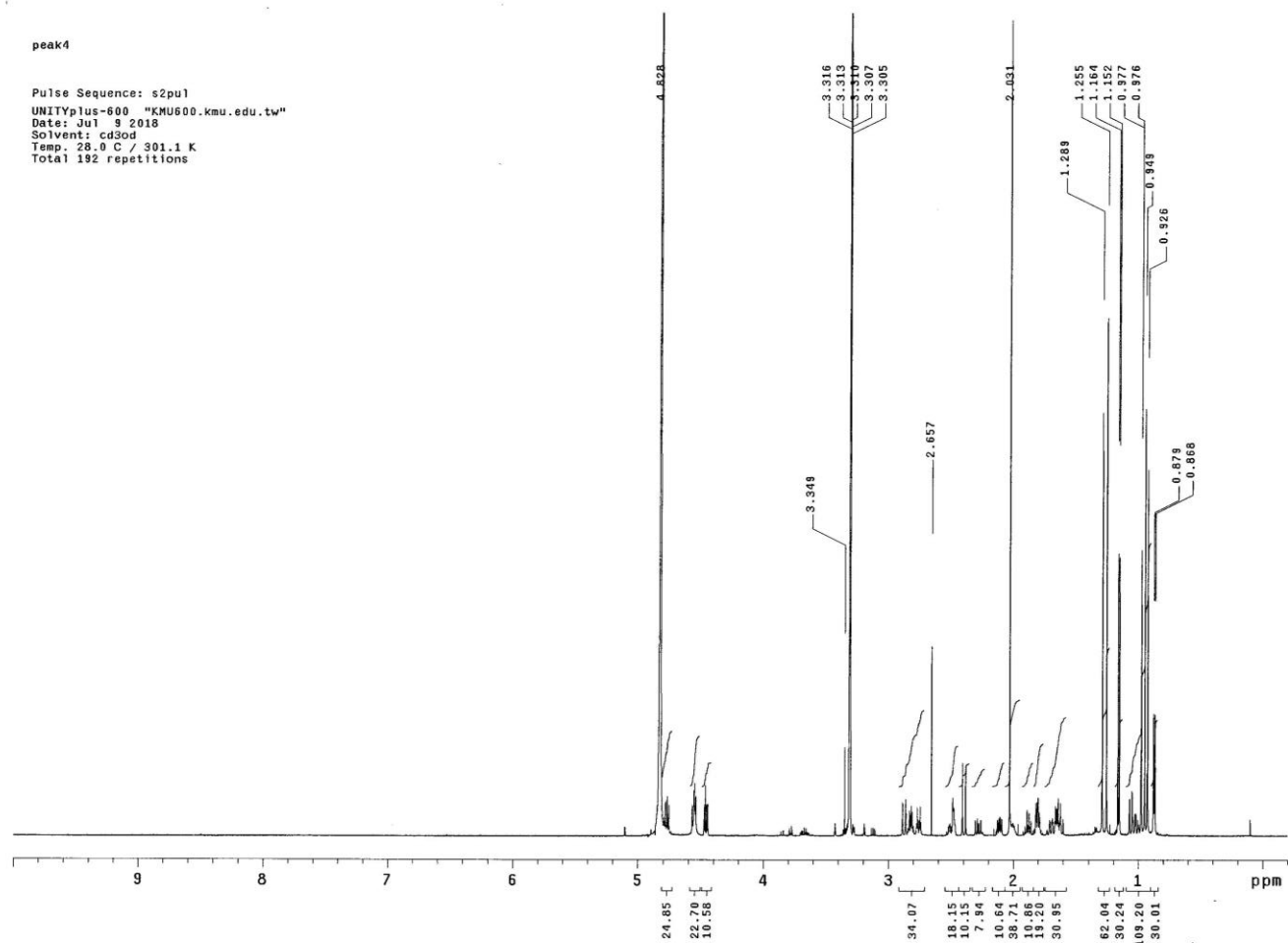


Figure S1. The ^1H -NMR (600 MHz, MeOH-d_4) spectrum of compound (**1**).

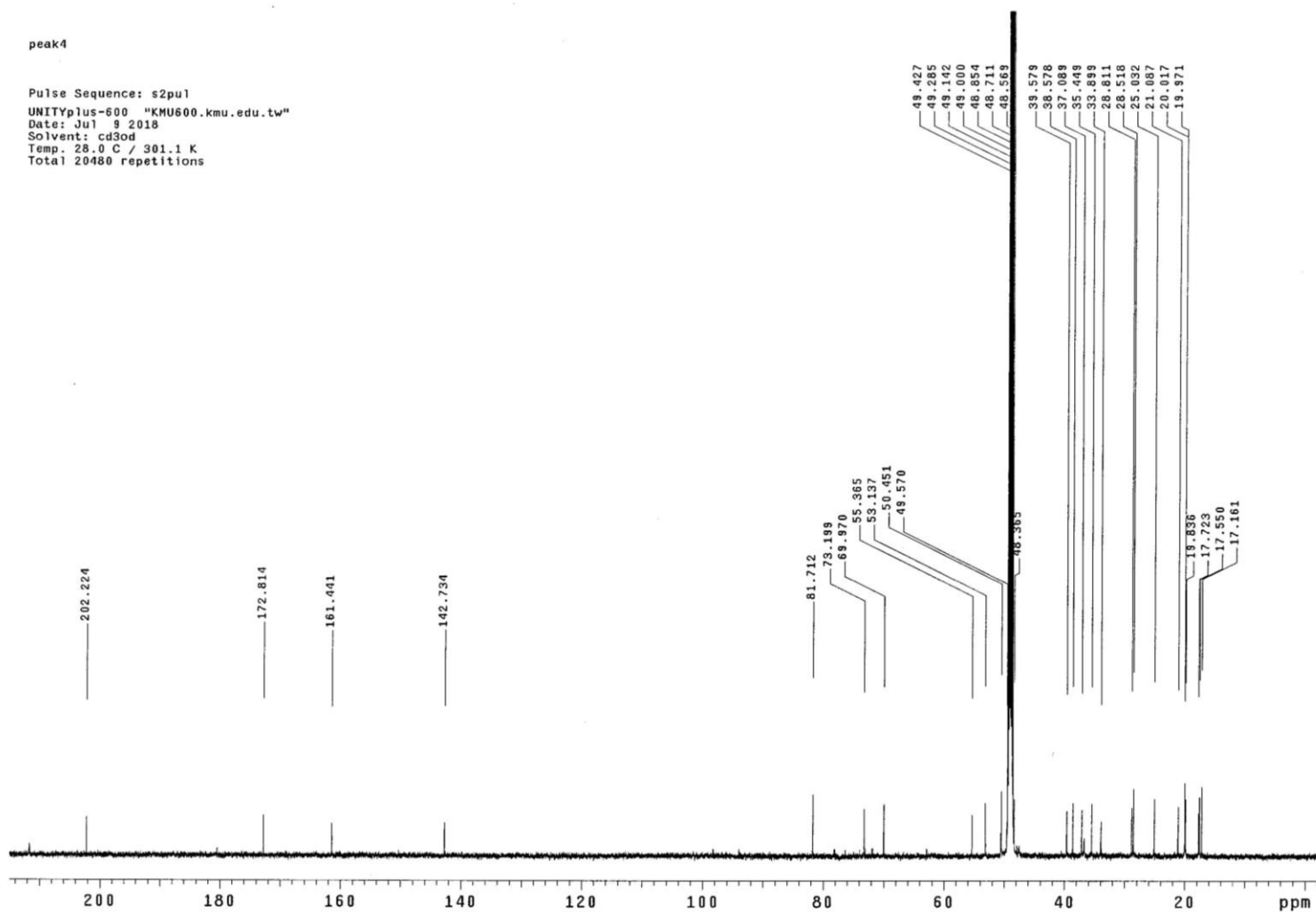


Figure S2. The ^{13}C -NMR (600 MHz, MeOH- d_4) spectrum of compound (1).

peak4

Pulse Sequence: gHMBCAD

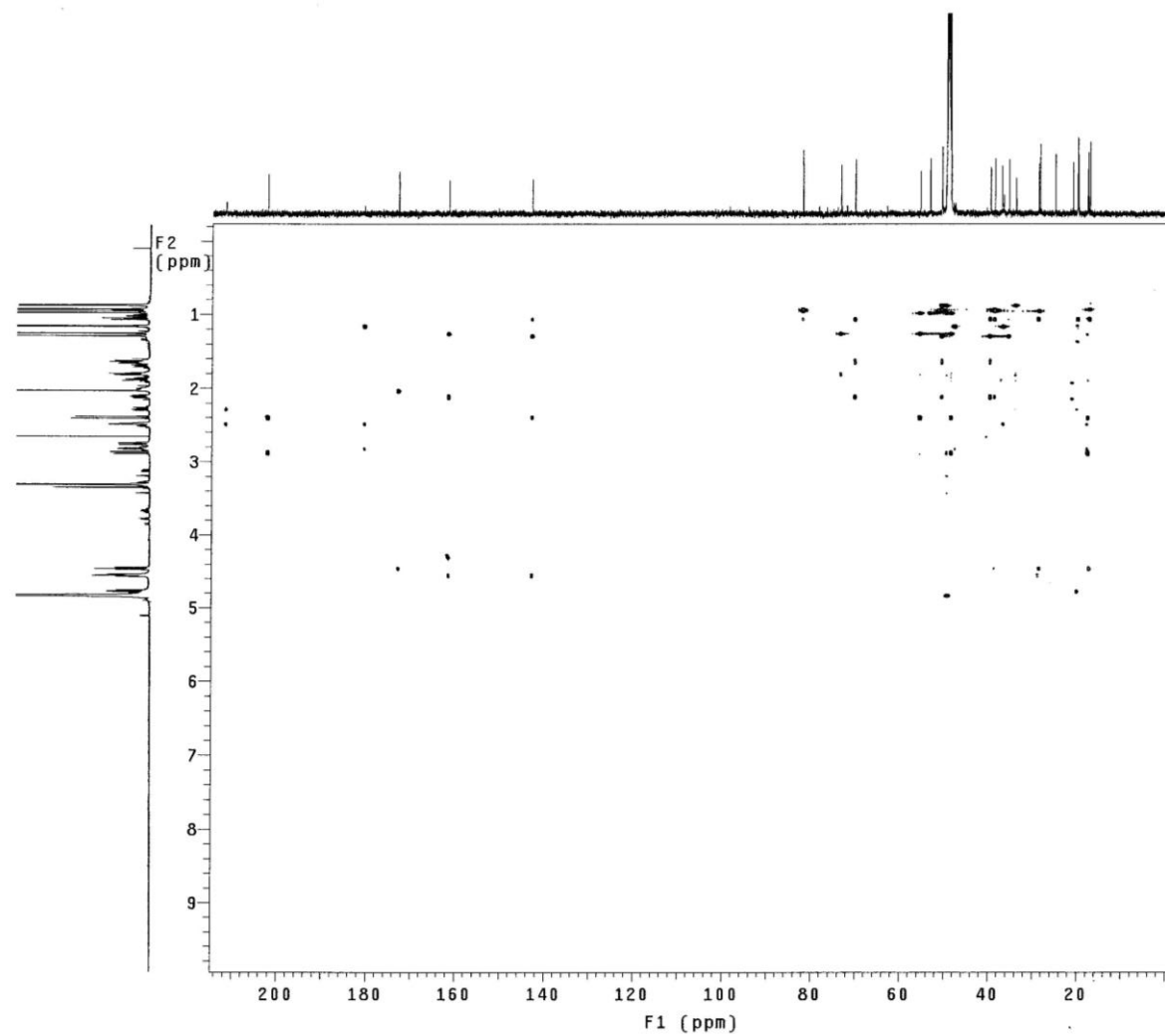


Figure S3. The HMBC (600 MHz, MeOH-d₄) spectrum of compound (1).

peak4

Pulse Sequence: gHSQCAD

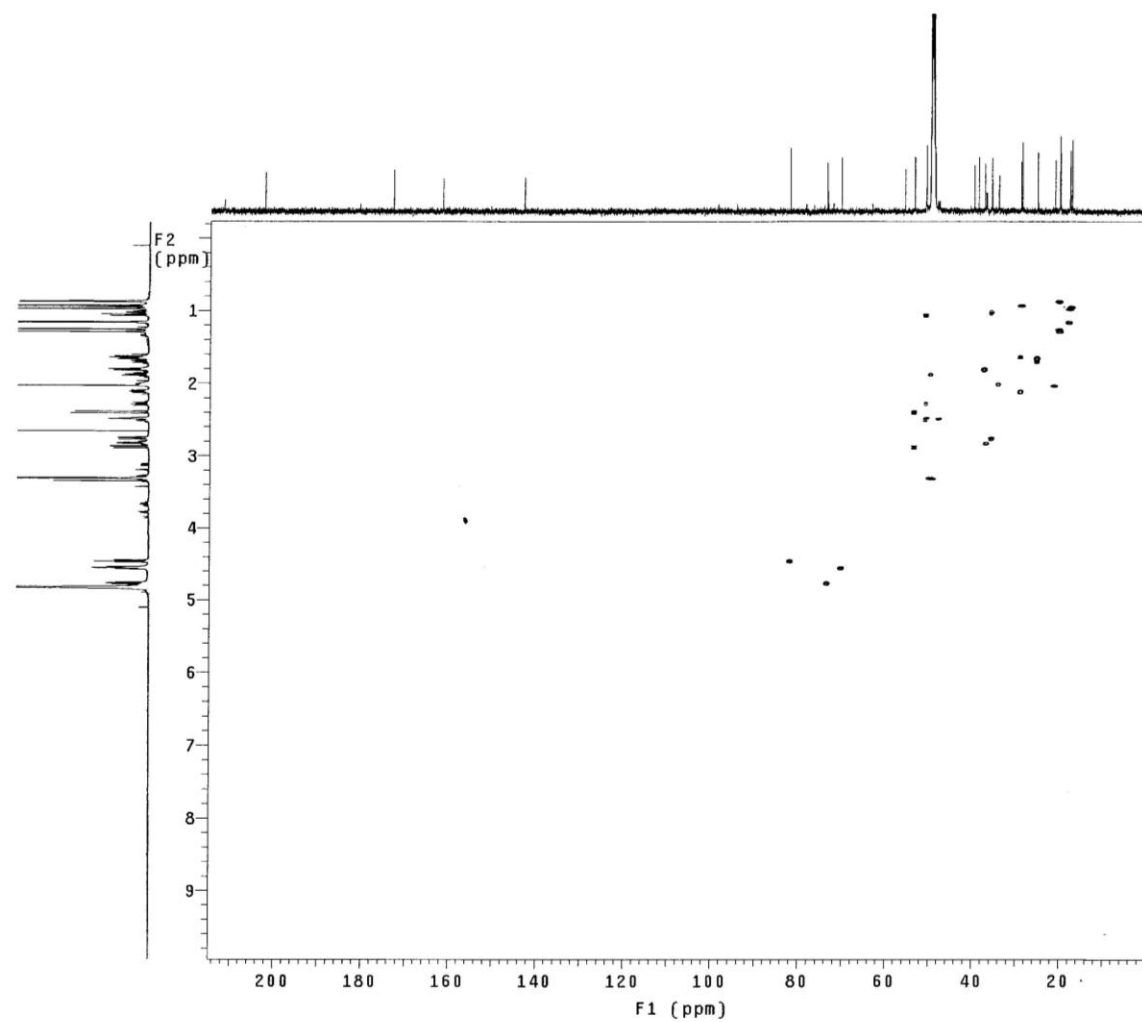


Figure S4. The HSQC (600 MHz, MeOH-d₄) spectrum of compound (1).

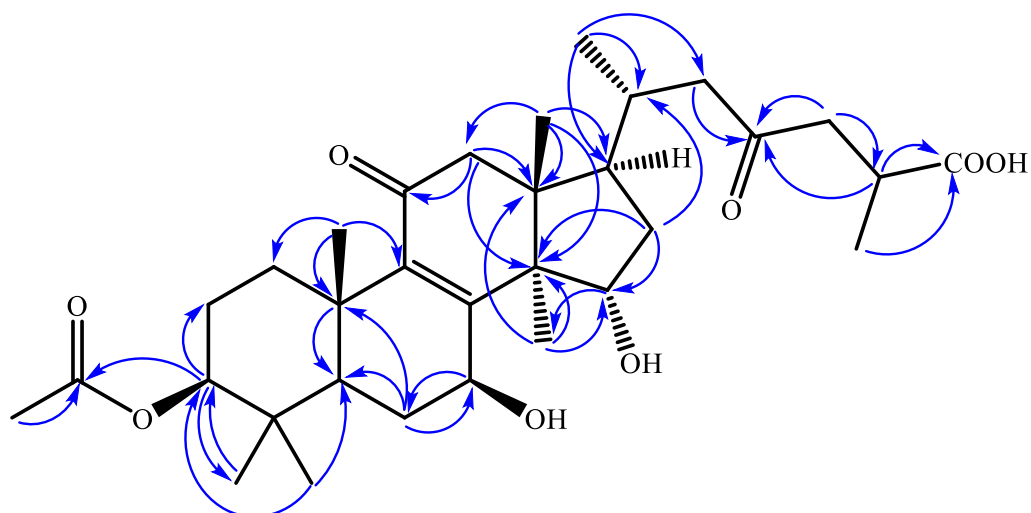


Figure S5. The key HMBC correlations of compound (**1**).

© 2018 by the authors. Submitted for possible open access publication under the terms and conditions of the Creative Commons Attribution (CC BY) license (<http://creativecommons.org/licenses/by/4.0/>).

