

Table 5. NMR Spectroscopic Data (400 MHz) for Compounds **17** - **20**

20^a			
position	δ_{H} (<i>J</i> in Hz)	δ_{C}	HMBC (H to C)
upper moiety			
2		155.1	
3		121.9	
4		196.0	
4a		116.3	
5	6.98 (s)	105.5	7, 8a of upper moiety
6		144.5	
7		139.3	
8		107.0	
8a		144.3	
1'		110.4	
2'		155.4	
3'	6.40 (s)	103.8	1', 2', 4', 5' of upper moiety
4'		158.2	
5'		121.1	
6'	7.27 (s)	131.7	2', 4', α' of upper moiety
isoprenyl at 8			
α	6.84 (d, 10)	116.6	7, 8, 8a, γ' of upper moiety
β	5.90 (d, 10)	132.0	
γ		77.8	
δ	1.50 (s)	27.6	
ϵ	1.50 (s)	27.6	
at 5'			
α'	3.25 (brd, 7.5)	28.3	
β'	5.30 (tsept., 7.5, 1)	123.8	
γ'		132.5 ^m	
δ'	1.69 (brs) ^l	17.8 ⁿ	
ϵ'	1.65 (brs) ^l	25.9	
lower moiety			
1	7.18 (s)	132.2	3, 4, 4a, 11a, α'' of lower moiety
2		123.1	
3		157.2	
4	6.37 (s)	103.7	2, 11a of lower moiety
4a		155.7	
6	3.20 (dd, 11, 11)	66.8	4a, 6a, 11a of lower moiety
6	3.87 (dd, 11, 5)		4a, 6a, 11a of lower moiety
6a	3.35 (m)	40.0	
11a	5.46 (d, 7)	80.4	1, 4a, 6, 11b of lower moiety
11b		111.9	
10b		119.3	
7	7.39 (s)	127.9	6a, 9, 10a of lower moiety and 4 of upper moiety
8		115.0	
9		164.6	
10		111.6	
10a		164.5	
isoprenyl at 2			
α''	3.27 (brd, 7.5)	28.4	3, 11b, ϵ'' of lower moiety
β''	5.35 (tsept., 7.5, 1)	123.8	
γ''		132.4 ^m	
δ''	1.74 (brs) ^l	25.9	
ϵ''	1.78 (brs)	17.8 ⁿ	
at 10			
α'''	3.29 (brd, 7.5)	22.9	9 of lower moiety
β'''	5.26 (tsept., 7.5, 1)	122.7	
γ'''		132.6	
δ'''	1.70 (brs) ^l	25.9	
ϵ'''	1.73 (brs) ^l	17.9 ⁿ	
OH at 9	13.40 (s)		8, 9, 10 of lower moiety

ROE
(H to H)

7 of lower moiety

β' of upper moiety and 7 of lower moiety

11a, α'' , β'' of lower moiety

6, 6, 6a of lower moiety and 5, 6' of upper moiety