



Figure S1. X-ray crystallographic structure of compound 6.

Table S1. ^1H -NMR spectroscopic data of compounds **4–6** (in CDCl_3 , 400 MHz)^a

position	4	5	6
1	-	-	3.32 (1H, <i>m</i>)
2	-	4.83 (1H, <i>dd</i> , <i>J</i> =8.7, 5.9)	1.70 (1H, <i>m</i>)
3	2.55 (1H, <i>m</i>)	1.77 (1H, <i>dd</i> , <i>J</i> =12.4, 5.9) 1.52 (1H, <i>m</i>)	1.60 (1H, <i>m</i>) 1.72 (1H, <i>m</i>)
4	4.30 (1H, <i>dd</i> , <i>J</i> =4.6, 3.0)	-	-
5	4.44 (1H, <i>dq</i> , <i>J</i> =3.0, 6.4)	1.45 (1H, <i>m</i>)	1.72 (1H, <i>d</i> , <i>J</i> =11.2)
6	1.41 (3H, <i>d</i> , <i>J</i> =6.4)	1.35 (1H, <i>m</i>) 1.45 (1H, <i>m</i>)	4.33 (1H, <i>dd</i> , <i>J</i> =11.2, 4.4)
7	1.23 (2H, <i>m</i>)	1.11 (1H, <i>m</i>) 1.35 (1H, <i>m</i>)	2.03 (1H, <i>m</i>)
8	1.23 (2H, <i>m</i>)	-	1.30 (1H, <i>m</i>) 1.68 (1H, <i>m</i>)
9	1.23 (2H, <i>m</i>)	3.29 (1H, <i>br s</i>)	1.28 (1H, <i>m</i>) 1.50 (1H, <i>m</i>)
10	1.23 (2H, <i>m</i>)	1.15 (1H, <i>m</i>) 1.58 (1H, <i>m</i>)	-
11	1.23 (2H, <i>m</i>)	1.55 (1H, <i>m</i>) 1.95 (1H, <i>m</i>)	1.08 (1H, <i>m</i>)
12	1.23 (2H, <i>m</i>)	1.00 (1H, <i>m</i>) 1.50 (1H, <i>m</i>)	1.09 (3H, <i>d</i> , <i>J</i> =6.6)
13	1.23 (2H, <i>m</i>)	1.03 (3H, <i>s</i>)	0.92 (3H, <i>d</i> , <i>J</i> =6.6)
14	1.23 (2H, <i>m</i>)	0.89 (3H, <i>s</i>)	0.94 (3H, <i>s</i>)
15	1.23 (2H, <i>m</i>)	0.93 (3H, <i>s</i>)	1.34 (3H, <i>s</i>)
16	1.23 (2H, <i>m</i>)	-	-
17	1.23 (2H, <i>m</i>)	-	-
18	0.87 (3H, <i>t</i> , <i>J</i> =7.2)	-	-
2'		2.02 (3H, <i>s</i>)	

^aThe chemical shifts are expressed in δ ppm. The coupling constants (*J*) are expressed in Hz.

Table S2. ^{13}C -NMR spectroscopic data of compounds **5–6** (in CDCl_3 , 100 MHz)

position	5	6
1	44.3	79.4
2	82.1	28.1
3	44.3	40.1
4	38.0	72.6
5	50.3	50.2
6	20.8	73.7
7	33.1	47.4
8	34.6	22.8
9	74.9	35.6
10	27.3	40.7
11	26.3	25.2
12	35.4	22.8
13	31.4	22.3
14	25.3	14.0
15	28.2	24.4
1'	171.0	-
2'	21.3	-