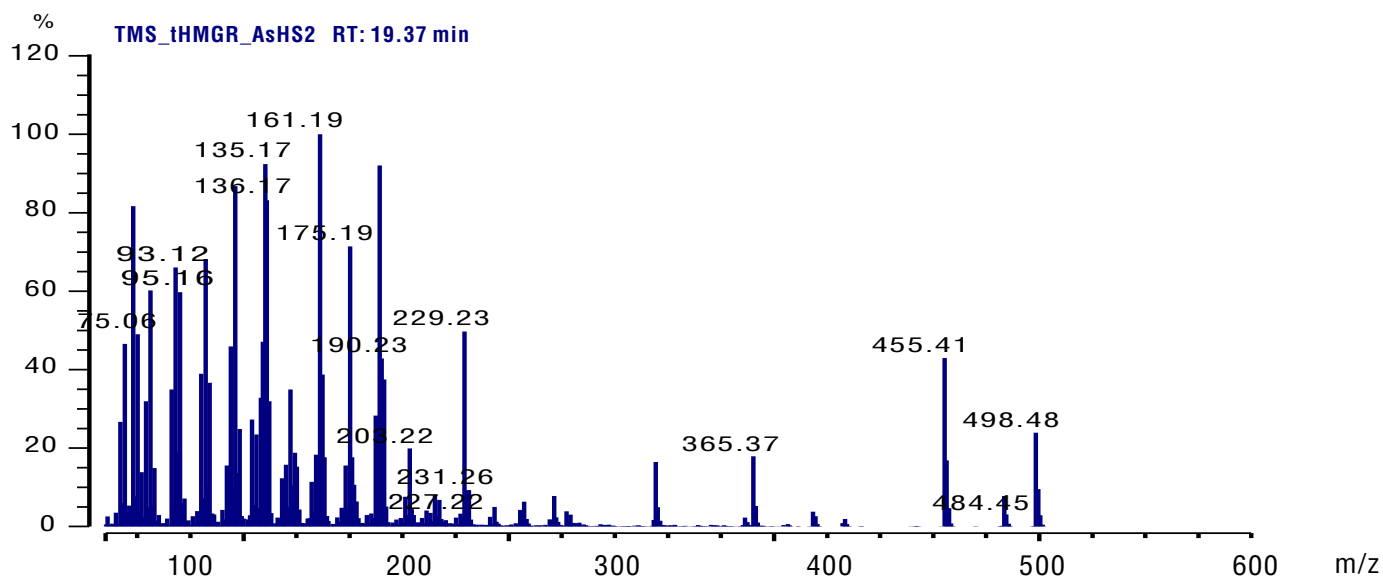
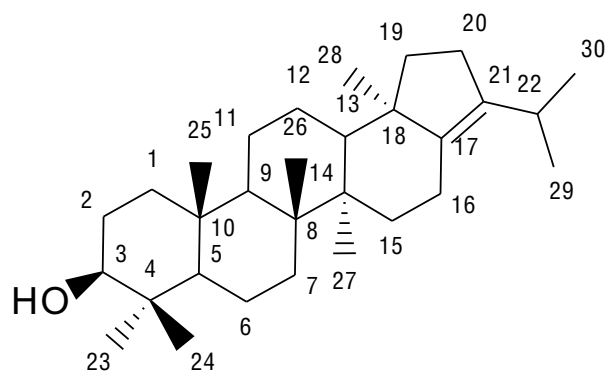
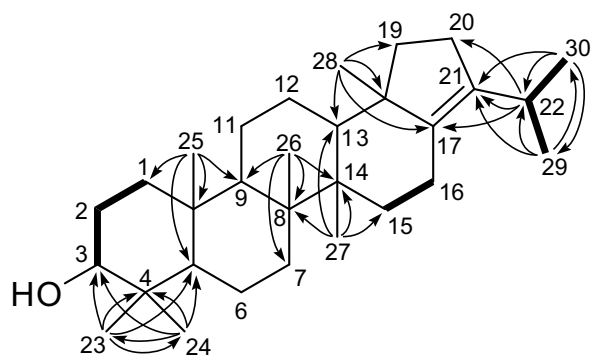


Supplementary Data 2. Spectroscopic data of hop-17(21)-en-3 β -ol generated by AsHS2

EIMS



NMR data



key HMBC (H→C) and ¹H-¹H COSY
 (—) Correlations of hop-17(21)-en-3 β -ol

hop-17(21)-en-3 β -ol

NO.	δ_H	δ_C	NO.	δ_H	δ_C	NO.	δ_H	δ_C
1	0.96 m, 1.73 m	39.0	11	1.27 m, 1.54 m	21.5	21	/	140.1
2	1.60 m	27.5	12	1.39 m	24.2	22	/	26.5
3	3.20 ddd (11.2, 6.1, 4.9)	79.2	13	1.42 m	49.5	23	2.62, m	28.2
4	/	39.0	14	/	41.8	24	0.98, s	15.5
5	0.69 m	55.4	15	1.27 m	32.0	25	0.76, s	16.4
6	1.39 m, 1.54 m	18.5	16	1.90 m, 2.27 m	20.0	26	0.83, s	16.5
7	1.30 m, 1.45 m	33.6	17	/	136.2	27	0.93, s	15.1
8	/	42.2	18	/	50.0	28	1.03, s	19.2
9	1.28 m	51.0	19	1.31 m, 1.66 m	41.9	29	0.84, s	21.5
10	/	37.3	20	2.12 m, 2.21 m	27.6	30	0.92, d (6.6)	22.1

