**Appendix S1**

Compounds used in experimental validation

*Oenotheranstrol-A.* Lanosta-5-en-2β, 3β,26,27-tetraol-21-oic acid (Oenotheralanosterol A, 1):White solid, m.p. 210—212 ℃; Rf 0.51 (MeOH∶H2O,1∶1), [α]D22 －32.20 (c 0.5, MeOH); UV (MeOH) λmax: 236, 271, 346; IR (KBr) νmax:3510, 3465, 3436, 3240. 2929, 2880, 1702, 1633, 1455, 1382, 1272, 1193, 1173, 1145, 1034, 934 cm－1; EI MS m/z (rel. int.): 506 [M]＋(C30H50O6) (1.5), 331 (16.3),313 (17.2), 301 (5.1), 295 (12.8), 286 (8.9), 280 (9.1), 236 (10.2), 215 (10.5), 208 (10.4), 193 (3.5), 163 (4.9),135 (14.3), 107 (9.8), 95 (11.8), 90 (100), 86 (9.5), 83(21.2); ESI Mass (positive mode) (M＋Na)＋: m/z 529; Anal. calcd for C30H50O6: C 71.14, H 9.88, O 18.97;found C 69.90, H 10.50; 1H NMR (CD3OD, 300 MHz): δ 1.58 (d, J = 13.6 Hz, 1H, H-1), 2.68 (d, J = 5.3 Hz, 1H, H-1), 3.83 - 3.87 (m, 1H, H-2), 3.52 (d, J = 10.8 Hz, 1H, H-3), 5.26 (br s, 1H, H-6), 2.30 (dd, J = 10.3, 5.6 Hz, 1H, H-7), 1.90 (dd, J = 5.6, 5.3 Hz, 1H, H-7), 1.65 - 1.69 (m, 1H, H-8), 1.80 -1.83 (m, 1H, H-9), 1.76 (ddd, J = 13.3, 8.2, 8.1 Hz, 1H, H-11), 1.70 (ddd, J = 8.2, 8.1, 5.3 Hz, 1H, H-11), 2.65 (ddd, J = 13.3, 8.1, 6.5 Hz, 1H, H-12), 1.76 (ddd, J = 8.1, 6.5, 5.2 Hz, 1H, H-12), 1.87 (ddd, J = 12.9, 8.1, 6.2 Hz, 1H, H-15), 2.01 (ddd, J = 8.1, 6.2, 5.2 Hz, 1H, H-15), 1.53 - 1.98 (m, 2H, H-16), 2.66 - 2.70 (m, 1H, H-17), 1.14 (br s, 3H, H-18), 1.34 (s, 3H, H-19), 2.71 - 2.74 (m, W1/2 6.5 Hz, 1H, H-20), 1.98 - 2.28 (m, 2H, H-22), 1.51-1.55 (m, 2H, H-23), 1.49 - 1.68 (m, 2H, H-24), 2.65 - 2.69 (m, 1H, H-25), 3.34 (d, J = 12.0 Hz, 1H, H-26), 3.30 (d, J = 12.0 Hz, 1H, H-26), 3.61 (d, J = 11.3 Hz, 1H, H-27), 3.55 (d, J = 11.3 Hz, 1H, H-27), 0.78 (br s, 3H, H-28), 1.01 (br s, 3H, H-29), 1.19 (br s, 3H, H-30); 13C NMR (CD3OD, 75 MHz) : δ 33.80 (C-1), 67.38 (C-2), 78.77 (C-3), 41.14 (C-4), 139.81 (C-5), 128.60 (C-6), 29.62 (C-7), 44.35 (C-8), 48.51 (C-9), 39.29 (C-10), 33.84 (C-11), 27.35 (C-12), 42.88 (C-13), 42.64 (C-14), 32.97 (C-15), 24.84 (C-16), 50.01 (C-17), 17.74 (C-18), 24.79 (C-19), 43.40 (C-20), 182.48 (C-21), 42.27 (C-22), 19.24 (C-23), 25.33 (C-24), 47.97 (C-25), 68.47 (C-26), 71.41 (C-27), 16.38 (C-28), 29.25 (C-29), 17.41 (C-30).

*Oenotheranstrol-B.* Lanosta-5-en-2β,3β,26,30-tetrol-21-oic acid (Oenotheralanosterol B, 2): White solid, m.p. 212—214 ℃; Rf 0.48 (MeOH∶H2O,1∶1); [α]D22 －38.4 (c 0.4, MeOH); UV (MeOH) λmax:232, 267, 351;; IR (KBr) νmax:3515, 3480, 3442, 3250, 2927, 2855, 1694, 1633, 1454, 1391, 1273, 1150, 1110 cm－1; EI MS m/z (rel. int.): 506[M]＋(C30H50O6) (1.1), 390 (10.3), 347 (15.1), 338 (6.9),332 (7.3), 324 (14.8), 314 (18.2), 302 (11.5), 296 (11.4),266 (24.3), 236 (6.1), 206 (5.2), 193 (4.1), 168 (4.2),164 (4.3), 159 (4.9), 135 (7.8), 98 (20.2), 91 (100), 83(14.7), 76 (23.2); ESI Mass (positive mode) [M＋Na]＋: m/z 529; Anal. Calcd. for C30H50O6: C 71.14, H 9.88, O18.97; found C 70.69, H 10.69; 1H NMR (CD3OD, 300 MHz ) δ: 1.51 (d, J = 13.2 Hz, 1H, H-1), 2.68 (d, J = 5.2 Hz, 1H, H-1), 3.70 - 3.72 (m, 1H, H-2), 3.36 (d, J = 9.5 Hz, 1H, H-3), 5.23 (br s, 1H, H-6), 1.96 - 2.22 (m, 2H, H-7), 1.64 -1.68 (m, 1H, H-8), 1.80 - 1.84 (m, 1H, H-9), 1.68 - 1.79 (m, 2H, H-11), 1.80 - 2.66 (m, 2H, H-12), 1.93 – 2.07 (m, 2H, H-15), 1.51 - 1.96 (m, 2H, H-16), 2.16 - 2.20 (m, 1H, H-17), 1.04 (br s, 3H, H-18), 1.34 (s, 3H, H-19), 2.84 - 2.87 (m, 1H, H-20), 1.32 – 1.62 (m, 2H, H-22), 1.35-1.67 (m, 2H, H-23), 1.29-1.65 (m, 2H, H-24), 1.90 – 1.94 (m, 1H, H-25), 3.52 (d, J = 10.8 Hz, 1H, H-26), 3.48 (d, J = 10.8 Hz, 1H, H-26), 0.89 (d, J = 5.7 Hz, 3H, H-27), 0.69 (br s, 3H, H-28), 0.96 (br s, 3H, H-29), 3.24 (br s, 1H, H-30), 3.30 (br s 1H, H-30); 13C NMR (CD3OD, 75 MHz) : δ33.77 (C-1), 69.82 (C-2), 78.27 (C-3), 40.92 (C-4), 142.29 (C-5), 123.52 (C-6), 29.30 (C-7), 48.27 (C-8), 50.01 (C-9), 39.12 (C-10), 25.46 (C-11), 29.17 (C-12), 44.27 (C-13), 43.57 (C-14), 38.27 (C-15), 31.93 (C-16), 54.50 (C-17), 18.01 (C-18), 24.30 (C-19), 40.56 (C-20), 181.09 (C-21), 48.17 (C-22), 19.21 (C-23), 24.61 (C-24), 48.99 (C-25), 68.40 (26), 14.10 (C-27), 17.84 (C-28), 21.76 (C-29), 66.37 (C-30).