

3103 (Triterene)

Name: Venustatriol

Origin: *Laurencia venusta* (Onna, Okinawa Prefecture, Japan)⁽¹⁾;

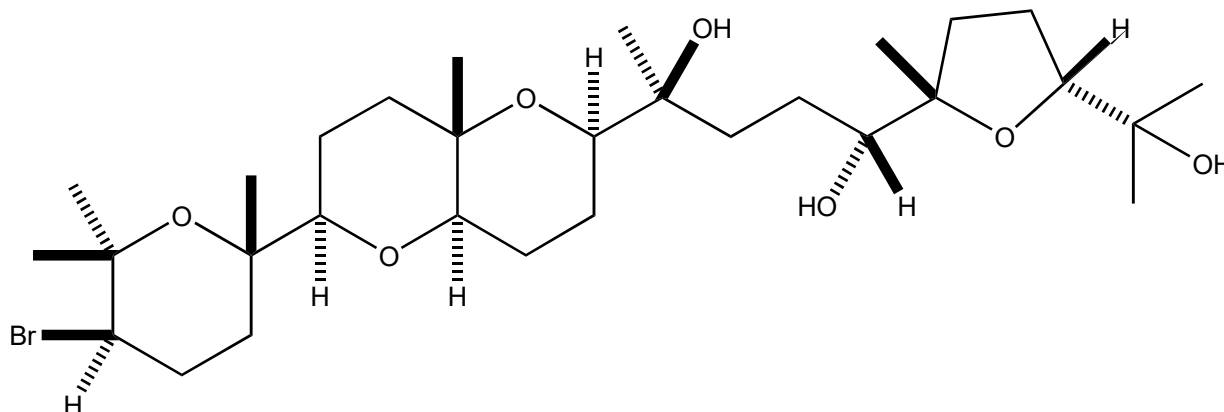
Aplysia dactylomela (the coast of Hainan Island, South China Sea, China)⁽²⁾;

Formula: C₃₀H₅₃BrO₇

Mol. Wt.: 605.64

Opt. Rot.: [α]_D²⁰ +9.4 (CHCl₃)⁽¹⁾; [α]_D +8.0 (CHCl₃)⁽²⁾

Mp.: 161.5⁽¹⁾; Oil⁽²⁾



References and Notes

(1) Sakemi, S., Higa, T., Jefford, C. W., and Bernardinelli, G. 1986. *Tetrahedron Lett.*, **27**, 4287-4290. Venustatriol, a new, anti-viral, triterpene tetracyclic ether from *Laurencia venusta*.

(X-ray crystallographic analysis) (¹H-NMR, ¹³C-NMR, MS) (together with [venustatriol](#), thysiferyl 23-acetate, thysiferol)

(2) Manzo, E., Gavagnin, M., Bifulco, G., Cimino, P., Micco, S. D., Ciavatta, M. L., Guo, Y. W., and Cimino, G. 2007. *Tetrahedron*, **63**, 9970-9978. Aplysiols A and B, squulene-derived polyethers from the mantle of the sea hare *Aplysia dactylomela*. (together with aplysiol A, aplysiol B, thysiferol, [venustatriol](#))

(3) **Total synthesis**; (a) Hashimoto, M., Kan, T., Nozaki, K., Yanagiya, M., Shirahama, H., and Matsumoto, T. 1988. *Tetrahedron Lett.*, **29**, 1143-1144. Total synthesis of (+)-thysiferol and (+)-venustatriol.; (b) Hashimoto, M., Kan, T., Nozaki, K., Yanagiya, M., Shirahama, H., and Matsumoto, T. 1990. *J. Org. Chem.*, **55**, 5088-5107. Total syntheses of (+)-thysiferol, (+)-thysiferyl 23-acetate, and (+)-venustatriol.