

3154 (Triterpene)

Name: Aplysiol B⁽²⁾ = Laurenmariannol⁽¹⁾

Origin: *Laurencia mariannensis* (the coast of Hainan and Weizhou Islands, China)⁽¹⁾;

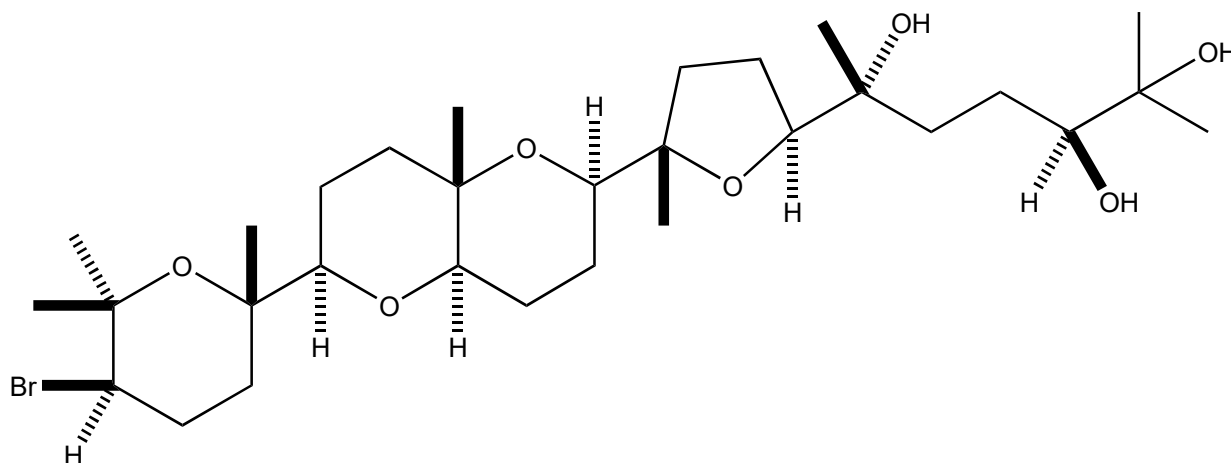
Aplysia dactylomela (the coast of Hainan Island, South China Sea, China)⁽²⁾;

Formula: C₃₀H₅₃BrO₇

Mol. Wt.: 605.64

Opt. Rot.: [α]_D -9.0 (CHCl₃)⁽²⁾; [α]_D¹⁸ -15.7 (CHCl₃)⁽¹⁾; [α]_D²⁸ -7.8 (CHCl₃)⁽⁴⁾

Mp.: Oil⁽²⁾; 159-160⁽¹⁾



References and Notes

(1) Ji, N.-Y., Li, X.-M., Xie, H., Ding, J., Li, K., Ding, L.-P., and Wang, B.-G. 2008. *Helv. Chim. Acta*, **91**, 1940-1946. Highly oxygenated triterpenoids from the marine red alga *Laurencia mariannensis* (Rhodomelaceae). (IR, ¹H-NMR, ¹³C-NMR, MS)

(together with [laurenmariannol](#), (21α)-21-hydroxythysiferol, 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, squqlene-derived polyethers from the mantle of the sea hare *Aplysia dactylomela*. (¹H-NMR, ¹³C-NMR) (together with aplysiol A, [aplysiol B](#), thysiferol, venustatriol)

(3) **Revision of the stereochemistry**; Ola, A. R. B., Babey, A.-M., Motti, C., and Bowden, B. F. 2010. *Aust. J. Chem.*, **63**, 907-914. Aplysiols C-E, brominated triterpene polyethers from the marine alga *Chondria armata* and a revision of the structure of aplysiol B.

(4) **Revision of the stereochemistry by total synthesis**; Nishikibe, K., Nishikawa, K., Kumagai, M., Doe, M., and Morimoto, Y. 2022. *Chem. Asian J.*, **17**, e202101137. Asymmetric total syntheses, stereostructures, and cytotoxicities of marine bromotriterpenoids aplysiol B (laurenmariannol) and saiyacenol A.