

6112 (Sterol)

Name: Aplysiasecosterol A

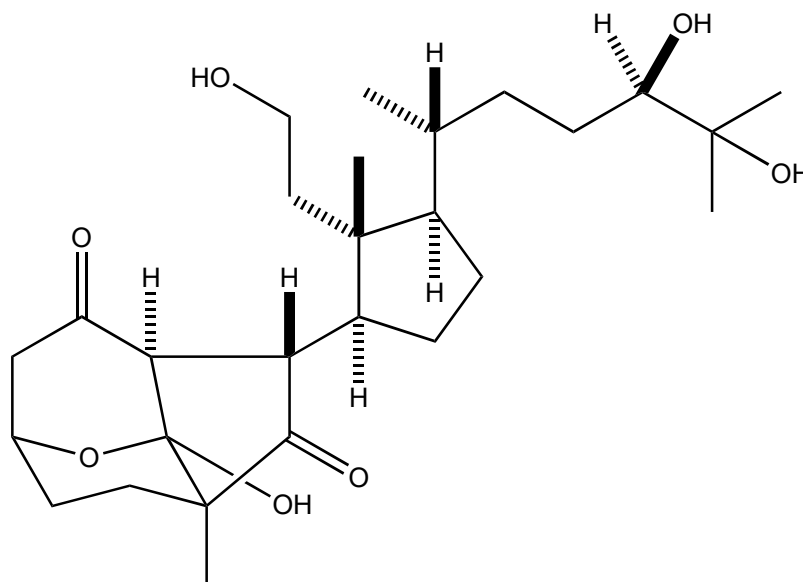
Origin: *Aplysia kurodai* (Mie Prefecture?, Japan)⁽¹⁾;

Formula: C₂₇H₄₄O₇

Mol. Wt.: 480.63

Opt. Rot.: [α]_D²⁴ +19.3 (MeOH)

Mp.: Oil



References and Notes

(1) Kawamura, A., Kita, M., and Kigoshi, H. 2015. *Angew. Chem. Int. Ed.*, **54**, 7073-7076.

Aplysiasecosterol A: A 9,11-secosteroid with an unprecedented tricyclic γ -diketone structure from the sea hare *Aplysia kurodai*. (IR, ¹H-NMR, ¹³C-NMR)

(2) **Total synthesis**; (a) Lu, Z., Zhang, X., Guo, Z., Chen, Y., Mu, T., and Li, A. 2018. *J. Am. Chem. Soc.*, **140**, 9211-9218. Total synthesis of aplysiasecosterol A.; (b) Ohyoshi, T., Tano, H., and Kigoshi, H. 2021. *Bull. Chem. Soc. Jpn.*, **94**, 1179-1184. Synthetic studies toward aplysiasecosterol A: Concise synthesis of the tricyclic core and its reactions for introduction of the D-ring fragment.