

4427 (C15 acetogenin)

Name: Laurefurenyne E

{4-Bromo-3-ethyl-9-pent-2-en-4-ynyl-
2,8-dioxa-bicyclo[5.2.1]decan-6-ol}

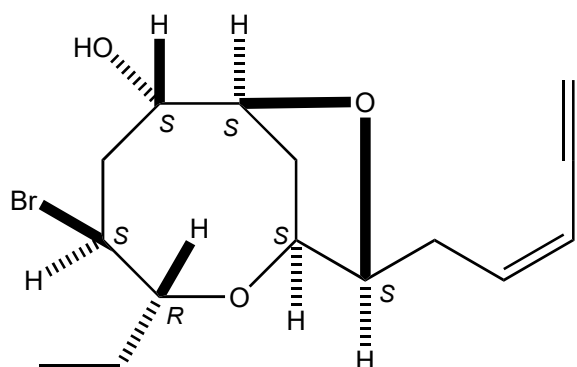
Origin: *Laurencia* sp. (Philippines)⁽¹⁾;

Formula: C₁₅H₂₁BrO₃

Mol. Wt.: 329.23

Opt. Rot.: $[\alpha]_D^{25} +11$ (MeOH)⁽¹⁾; $[\alpha]_D^{25} -5.9$ (MeOH)⁽²⁾

Mp.: Amorphous powder



References and Notes

(1) Abdel-Mageed, W. M., Ebel, R., Valeriote, F. A., and Jaspars, M. 2010. *Tetrahedron*, **66**, 2855-2862. Laurefurenynes A-F, new cyclic ether acetogenins from a marine red alga *Laurencia* sp. (IR, ¹H-NMR, ¹³C-NMR) (together with laurefurenynes A-F)

(2) **Structure revision**; Chan, H. S. S., Thompson, A. L., Christensen, K. E., and Burton, J. W. 2020. *Chem. Sci.*, **11**, 11592-11600. Forwards and backwards - synthesis of *Laurencia* natural products using a biomimetic and retrobiomimetic strategy incorporating structural reassignment of laurefurenynes C-F.