4723 (C15 acetogenin)

Name: Laurendecumallene B {2-(3-Bromo-propa-1,2-dienyl)-5-(1-bromo-propyl)-octahydro-furo[3,2-*b*]oxocine-7,8-diol}

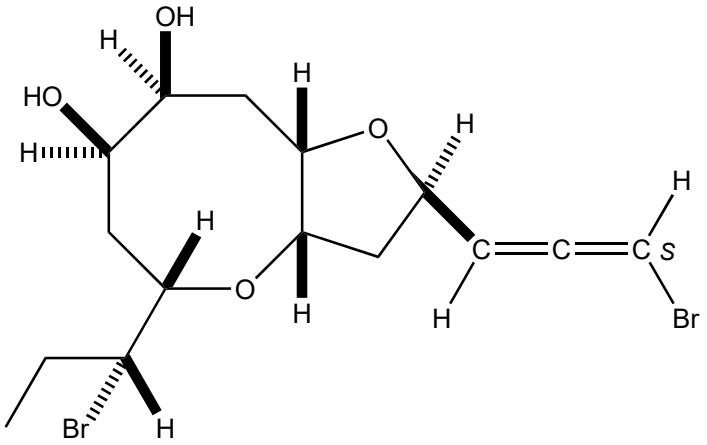
Origin: *Laurencia decumbens* (Weizhou Island, Guangxi Province, China)[(1)(2)];

Formula: $C_{15}H_{22}Br_2O_4$

Mol. Wt.: 426.14

Opt. Rot.: $[\alpha]_D^{18}$ +60.6 ($CHCl_3$)

Mp.: Oil



References and Notes

(1) Ji, N.-Y., Li, X.-M., Li, K., and Wang, B.-G. 2007. J. Nat. Prod., **70**, 1499-1502. Laurendecumallenes A-B and laurendecumenynes A-B, halogenated nonterpenoid C_{15}-acetogenins from the marine red alga *Laurencia decumbens*. (**IR, ^{1}H-NMR, ^{13}C-NMR**)

(2) **Total synthesis**; (a) Yoshimitsu, Y., Inuki, S., Oishi, S., Fujii, N., and Ohno, H. 2013. Org. Lett., **15**, 3046-3049. Palladium-catalyzed medium-ring formation for construction of the core structure of *Laurencia* oxacycles: Synthetic study of laurendecumallene B.; (b) Taylor, C. A., Zhang, Y.-A., and Snyder, S. A. 2020. Chem. Sci., **11**, 3036-3041. The enantioselective total synthesis of laurendecumallene B.