

4461 (C15 acetogenin)

Name: Chondriol; *cis*-Chondriol⁽³⁾ {2-(1-Bromo-propylidene)-7-chloro-8-pent-2-en-4-ynyl-3,6,7,8-tetrahydro-2*H*-oxocin-3-ol}

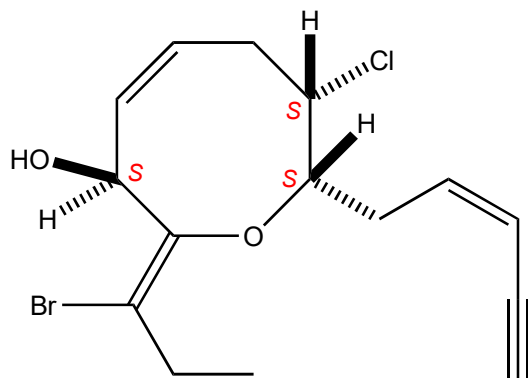
Origin: *Chondria oppositoclada* ()^(1,2);
Laurencia sp. (San Carlos Bay, Guaymus, Mexico)⁽³⁾;

Formula: C₁₅H₁₈BrClO₂

Mol. Wt.: 345.66

Opt. Rot.: [α]_D +54.9 (MeOH) (for acetate)

Mp.: 53-54.5 (for acetate)



References and Notes

- (1) Fenical, W., Sims, J. J., and Radlick, P. 1973. *Tetrahedron Lett.*, **14**, 313-316. Chondriol, a halogenated acetylene from the marine red alga *Chondria oppositoclada*. (UV, IR, ¹H-NMR)
- (2) Fenical, W., Gifkins, K. B., and Clardy, J. 1974. *Tetrahedron Lett.*, **15**, 1507-1510. X-ray determination of chondriol; A re-assignment of structure. (X-ray crystallographic analysis)
- (3) Howard, B. M., Fenical, W., Hirotsu, K., Solheim, B., and Clardy, J. 1979. *Tetrahedron*, **36**, 171-176. The rhodophytin and chondriol natural products; Structures of several new acetylenes from *Laurencia*, and a reassignment of structure for *cis*-rhodophytin. (IR, ¹H-NMR, ¹³C-NMR) (together with *cis*-rhodophytin, *trans*-rhodophytin, *cis*-chondriol, *trans*-chondriol, *cis*-chondrin, *trans*-chondrin)