

4319 (C15 acetogenin)

Name: (3Z)-Isoprelaufucin {5-Bromo-3-(1-bromo-propyl)-8-pent-2-en-4-ynyl-2,7-dioxabicyclo[4.2.1]nonane}

Origin: *Laurencia nipponica* (Asari and Hariusu, Otaru, Hokkaido, Japan)⁽¹⁾;

Laurencia nipponica (Hamamasu, southwest of Rumoi, Hokkaido, Japan)⁽²⁾;

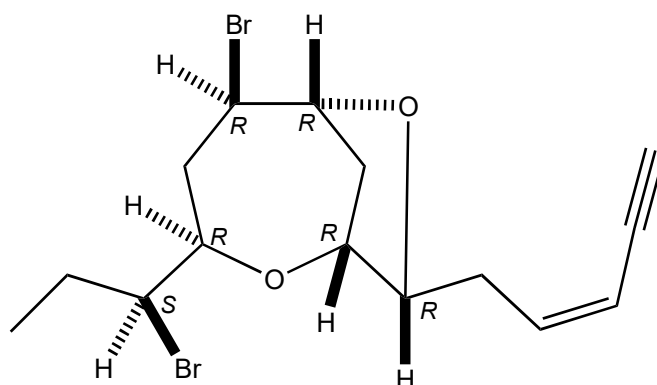
Laurencia subopposita (La Jolla, California, USA)⁽³⁾;

Formula: C₁₅H₂₀Br₂O₂

Mol. Wt.: 392.13

Opt. Rot.: [α]_D²¹ -75.5 (CHCl₃)⁽¹⁾

Mp.: Oil



References and Notes

(1) Suzuki, M., Kurata, K., Suzuki, T., and Kurosawa, E. 1986. Bull. Chem. Soc. Jpn., **59**, 2953-2955.

The absolute configuration of isoprelaufucin. (UV, IR, ¹H-NMR, ¹³C-NMR, MS)

(2) Kikuchi, H., Suzuki, T., Suzuki, M., and Kurosawa, E. 1985. Bull. Chem. Soc. Jpn., **58**, 2437-2438.

A new chamigrane-type bromo diether from the red alga *Laurencia nipponica* Yamada.

(3) Wratten, S. J. and Faulkner, D. J. 1977. J. Org. Chem., **42**, 3343-3349. Metabolites of the red alga *Laurencia subopposita*. (**3Z/3E (1:2) mixture**) (together with isoprelaufucin, acetyllaurefucin, laurefucin, dehydrobromolaurefucin, several sesquiterpenes)