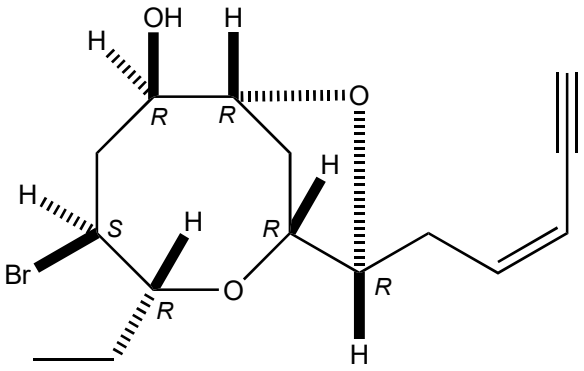
4417 (C15 acetogenin)

Name: (3*Z*)-Laurefucin {4-Bromo-3-ethyl-9-pent-2-en-4-ynyl-2,8-dioxa-bicyclo[5.2.1]decan-6-ol}

Origin: *Laurencia subopposita* (La Jolla, California, USA)[(1)];
Laurencia nipponica (Notoro, near Abashiri, Hokkaido, Japan)[(2)];
Laurencia nipponica (Zaimokuiwa (Kunashiri Island) and Sana (Etorofu Island, Hokkaido, Japan)[(3)];

Formula: $C_{15}H_{21}BrO_3$
Mol. Wt.: 329.23
Opt. Rot.:
Mp.:



References and Notes

(1) Wratten, S. J. and Faulkner, D. J. 1977. J. Org. Chem., **42**, 3343-3349. Metabolites of the red alga *Laurencia subopposita*. (**3*Z*/3*E* (1:3) mixture**) (together with isoprelaurefucin, acetyllaurefucin, laurefucin, (3*Z*)-laurefucin, dehydrobromolaurefucin, several sesquiterpenes)
(2) Kikuchi, H., Suzuki, T., Kurosawa, E., and Suzuki, M. 1991. Bull. Chem. Soc. Jp., **64**, 1763-1775. The structure of notoryne, a halogenated C_{15} nonterpenoid with a novel carbon skeleton from the red alga *Laurencia nipponica* Yamada. (together with (3*Z*)-laurefucin, (3*Z*)-acetyllaurefucin, (3*Z*)-7-acetyllaurediol, (3*Z*)-laurediol acetate, *trans*-laurencenyne, laurene, isodihydrolaurene, nidificene, debromoallolaurinterol)
(3) Sato, K., Kaneko, K., Kamekawa, T., Taba, K., Ishigami, S., Wada, M., Ishii, T., Abe, T., Kamada, T., and Suzuki, M. 2021. Chem. Biodiversity, **18**, e2100397. Two new halogenated compounds from the marine red alga *Laurencia nipponica* Yamada from the Kunashiri and Etorofu Islands. (together with (3*Z*)-laurefucin, deoxyprepacifenol, 7-hydroxylaurene, 2,10-dibromo-3-chloro-9-hydroxy-α-chamigrene); **Corrigendum**; Chem. Biodiversity, **19**, (3) e202200112 (doi.org/10.1002/cbdv.202200112).