4703 (C15 acetogenin)

Name: Omaezallene {5-(3-Bromo-propa-1,2-dienyl)-2-(1,6-dibromo-2-hydroxy-octa-3,5-dienyl)-tetrahydro-furan-3-ol}

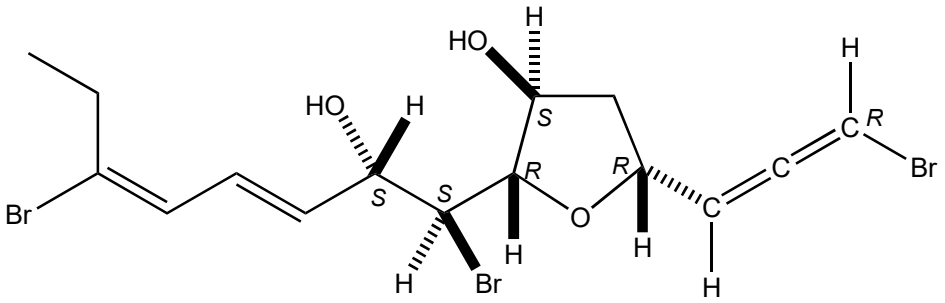
Origin: *Laurencia* sp. (Omaezaki, Shizuoka Prefecture, Japan)[(1)];

Formula: $C_{15}H_{19}Br_3O_3$

Mol. Wt.: 487.02

Opt. Rot.: $[\alpha]_D^{21}$ -127 ($CHCl_3$)

Mp.: Oil



References and Notes

(1) Umezawa, T., Oguri, Y., Matsuura, H., Yamazaki, S., Suzuki, M., Yoshimura, E., Furuta, T., Nogata, Y., Serisawa, Y., Matsuyama-Serisawa, K., Abe, T., Matsuda, F., Suzuki, M., and Okino, T. 2014. Angew. Chem. Int. Ed., **53**, 3909-3912. Omaezallene from red alga *Laurencia* sp.: Structure elucidation, total synthesis, and antifouling activity. (**IR, ^{1}H-NMR, ^{13}C-NMR, MS**) (together with omaezallene, (12*Z*)-omaezallene, 12,13-dihydroomaezallene, zagashimallene [**4708-1**], intricatetraol)

(2) **Synthesis and biological activity**; Umezawa, T., Pracoso, N. I., Kannaka, M., Nogata, Y., Yoshimura, E., Okino, T., and Matsuda, F. 2019. Chem. Biodiv., **16**, e1800451. Synthesis and structure-activity relationship of omaezallene derivatives.

(3) **Determination of absolute configuration of bromoallenes**; Umezawa, T., Mizutani, N., Matsuo, K., Tokunaga, Y., Matsuda, F., and Nehira, T. 2021. Molecules, **26**, (No. 5) 1296. Assignment of absolute configuration of bromoallenes by vacuum-ultraviolet circular dichroism (VUVCD).