

4803 (C15 acetogenin)

Name: Itomanallene A {6-Bromo-2-(3-bromo-propa-1,2-dienyl)-5-ethyl-2,3,3a,5,6,7,10,10a-octahydro-furo[3,2-*b*]oxonine}

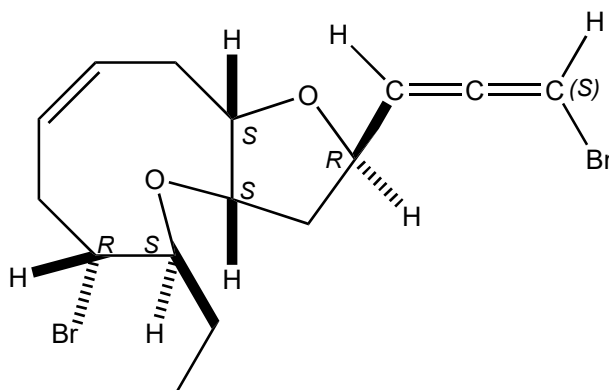
Origin: *Laurencia intricata* (Komesu, Itoman, Okinawa Prefecture, Japan)^(1,2);
Laurencia nangii (Semporna, Sabah, Malaysia)⁽³⁾;

Formula: C₁₅H₂₀Br₂O₂

Mol. Wt.: 392.13

Opt. Rot.: [α]_D²³ +99 (CHCl₃)

Mp.: Oil



References and Notes

(1) Suzuki, M., Takahashi, Y., Mitome, Y., Itoh, T., Abe, T., and Masuda, M. 2002. *Phytochemistry*, **60**, 861-867. Brominated metabolites from an Okinawan *Laurencia intricata*.

(IR, ¹H-NMR, ¹³C-NMR, MS) (together with [itomanallene A](#), itomanallene B, itomanol)

(2) **Structure revision**; Jeong, W., Kim, M. J., Kim, H., Kim, S., Kim, D., and Shin, K. J. 2010. *Angew. Chem. Int. Ed.*, **49**, 752-756. Substrate-controlled asymmetric total synthesis and structure revision of (+)-itomanallene A.

(3) Kamada, T., Phan, C.-S., and Vairappan, C. S. 2019. *J. Asian Nat. Prod. Res.*, **21**, 241-247.

Nangallenes A and B, halogenated nonterpenoid C₁₅-acetogenins from the Bornean red alga *Laurencia nangii*. (together with nangallene A, nangallene B, [itomanallene A](#), 2,10-dibromo-3-chloro- α -chamigrene)