

4724 (C15 acetogenin)

Name: 2,9-Dioxabicyclo[6.3.0]undecane bromoallene I

{7-Bromo-2-(3-bromo-propa-1,2-dienyl)-5-(1-bromo-propyl)-
octahydro-furo[3,2-*b*]oxocin-8-ol}

Origin: *Laurencia intricata* (Bikuni, Hokkaido, Japan)⁽¹⁾;

Laurencia sp. (Chinzei, Saga Prefecture, Japan)⁽²⁾;

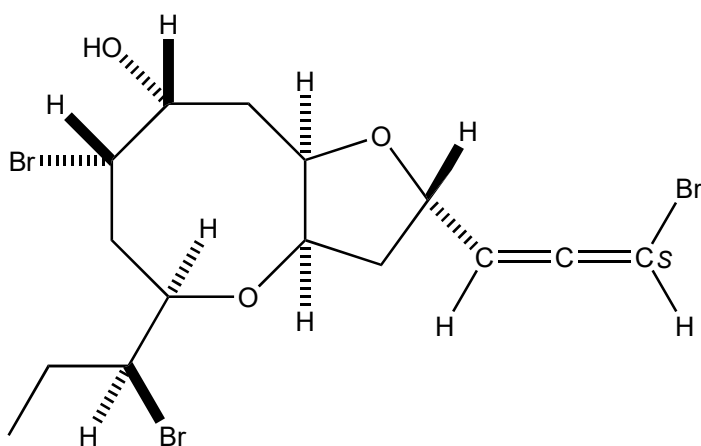
Laurencia sp. (Pulau Nyireh, Terengganu, Malaysia)⁽³⁾;

Formula: C₁₅H₂₁Br₃O₃

Mol. Wt.: 489.04

Opt. Rot.: [α]_D²¹ +95.8 (CCl₄)⁽¹⁾; [α]_D²⁵ +121 (CHCl₃)⁽³⁾

Mp.: Oil



References and Notes

(1) Suzuki, M., Sasage, Y., Ikura, M., Hikichi, K., and Kurosawa, E. 1989. *Phytochemistry*, **28**, 2145-2148. Structure revision of okamurallene and structure elucidation of further C₁₅ non-terpenoid bromoallenes from *Laurencia intricata*. (IR, ¹H-NMR, MS; Acetate, IR, ¹H-NMR, ¹³C-NMR, MS)

(2) Suzuki, M., Kawamoto, T., Vairappan, C. S., Ishii, T., Abe, T., and Masuda, M. 2005. *Phytochemistry*, **66**, 2787-2793. Halogenated metabolites from Japanese *Laurencia* spp.

(3) Vairappan, C. S., Suzuki, M., Ishii, T., Okino, T., Abe, T., and Masuda, M. 2008. Antibacterial activity of halogenated sesquiterpenes from Malaysian *Laurencia* spp. (together with chlorofucin, [2,9-dioxabicyclo\[6.3.0\]undecane bromoallene I](#))