2213 (Diterpene)

Name: Pinnaterpene D {Acetic acid 4-bromo-1-(9-bromo-6-methyl-11-oxa-tricyclo[4.3.2.$0^{1,5}$]undec-4-ylmethyl)-3,3-dimethyl-cyclohexyl ester}

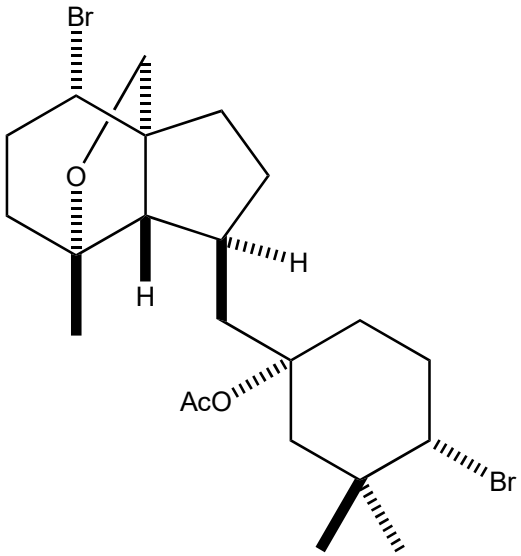
Origin: *Laurencia pinnata* (Onahama, Fukushima, Japan)[(1)];

Formula: $C_{22}H_{34}Br_2O_3$

Mol. Wt.: 506.31

Opt. Rot.: $[\alpha]_D$ +16.1 ($CHCl_3$)[(1)]; $[\alpha]_D$ +7.1 ($CHCl_3$)[(2)]

Mp.: 167.5-168[(1)]; Oil[(2)]



References and Notes

(1) Fukuzawa, A., Miyamoto, M., Kumagai, Y., Abiko, A., Takaya, Y., Masamune, T. 1985. Chem. Lett., **14**, 1259-1262.Structures of new bromoditerpenes, pinnatols, from the marine red alga *Laurencia pinnata* Yamada. (together with pinnatols A~D, pinnaterpene C, pinnaterpene D, irieol C)

(2) **Derivative from pinnaterpen A and pinnaterpene B**; Fukuzawa, A., Kumagai, Y., Masamune, T., Furusaki, A., Matsumoto, T., and Katayama, C. 1982. Chem. Lett., **11**, 1389-1392. Pinnaterpenes A, B, and C, new dibromoditerpenes from the red alga *Laurencia pinnata* Yamada.