

1257 (Sesquiterpene)

Name: Isorigidol {8-Bromo-3,7,7-trimethyl-11-methylene-spiro[5.5]undec-1-ene-3,9-diol}

Origin: *Laurencia scoparia* (Praia Brava, coast of Ubatuba, State of Sao Paulo, Brazil)^(1,2);

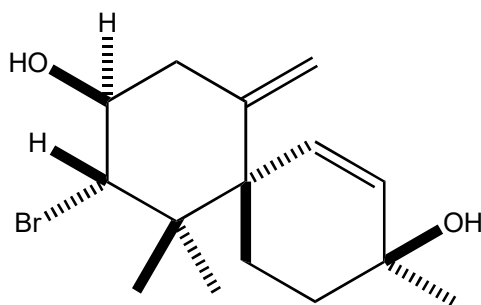
Laurencia tristicha (the coast of Hsiao Liuchiu Island, Taiwan)⁽³⁾;

Formula: C₁₅H₂₃BrO₂

Mol. Wt.: 315.25

Opt. Rot.: [α]_D²⁵ -11.5 (CH₂Cl₂)⁽¹⁾; [α]_D²⁵ -12 (CH₂Cl₂)⁽³⁾

Mp.: 138-140



References and Notes

(1) Davyt, D., Fernandez, R., Suescun, L., Mombro, A. W., Saldana, J., Dominguez, L., Coll, J., Fujii, M. T., and Manta, E. 2001. *J. Nat. Prod.*, **64**, 1552-1555. New sesquiterpene derivatives from the red alga *Laurencia scoparia*. Isolation, structure determination, and anthelmintic activity. (IR, ¹H-NMR, ¹³C-NMR, MS) (together with scopariol, isorigidol, (Z)-10,15-dibromo-chamigra-1,3(15),7(14)-triene, (E)-10,15-dibromo-chamigra-1,3(15),7(14)-triene, 5 known chamigranes ((Z)-10,15-dibromochamigra-1,3(15),7(14)-trien-9-ol, (E)-10,15-dibromochamigra-1,3(15),7(14)-trien-9-ol, 10-bromo-9-hydroxy-β-chamigrene, 2,10-dibromo-9-hydroxychamigra-7(14)-en-9-ol, 2,10-dibromo-3-chlorochamigra-7(14)-ene), 2 known *seco*-chamigranes (ma'ilione, majusculone), α,β-unsaturated aldehyde)

(2) X-ray crystallographic analysis; Suescun, L., Mombro, A. W., Mariezcurrena, R. A., Davyt, D., Fernandez, R., and Manta, E. 2001. *Acta. Crystallogr.*, **C57**, 286-288. Two natural products from the algae *Laurencia scoparia*.

(3) Chen, J.-Y., Huang, C.-Y., Lin, Y.-S., Hwang, T.-L., Wang, W.-L., Chiou, S.-F., and Sheu, J.-H. 2016. *J. Nat. Prod.*, **79**, 2315-2323. Halogenated sesquiterpenoids from *Laurencia tristicha* collected in Taiwan. (together with 8 new chamigranes; tristichones A-D, tristichols A-D, 4α-hydroxybromocuparene, known 9 related compds; ma'ilione, ma'iliohydrin, isorigidol, allo-isoobtusol, majusculone, (3(15)Z)-10,15-dibromochamigra-1,3(15),7(14)-trien-9-ol, (3(15)E)-10,15-dibromochamigra-1,3(15),7(14)-trien-9-ol, (3(15)Z)-15-bromochamigra-1,3(15),7-trien-9-one, (3(15)E)-15-bromochamigra-1,3(15),7-trien-9-one)