

## 4806 (C15 acetogenin)

Name: Obtusallene I {12-Bromo-4-(3-bromo-propa-1,2-dienyl)-7-chloro-2-methyl-3,13-dioxa-bicyclo[7.3.1]trideca-5,9-diene}

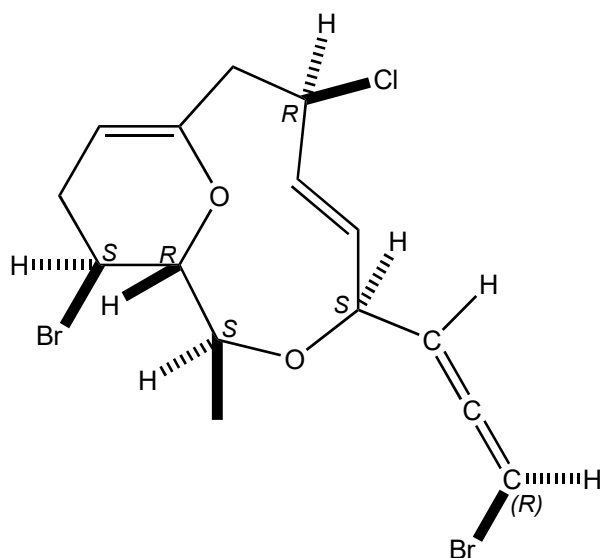
Origin: *Laurencia obtusa* (Gökceada, Aegean Sea, Turkey)<sup>(1)</sup>;  
*Laurencia obtusa* (Kas, near Antalya, Mediterranean Sea, Turkey)<sup>(2-4)</sup>;  
*Laurenciella* sp. (along the Sanguinaires Road, Ajaccio, Corsica, France)<sup>(5)</sup>;

Formula: C<sub>15</sub>H<sub>17</sub>Br<sub>2</sub>ClO<sub>2</sub>

Mol. Wt.: 424.56

Opt. Rot.: [α]<sub>D</sub><sup>17</sup> -257.6 (CHCl<sub>3</sub>)<sup>(1)</sup>; [α]<sub>D</sub><sup>25</sup> -246 (CHCl<sub>3</sub>)<sup>(2)</sup>

Mp.: 165-167



### References and Notes

(1) Cox, P. J., Imre, S., Islimyeli, S., and Thomson, R. H. 1982. Tetrahedron Lett., **23**, 579-580.

Obtusallene I, a new halogenated allene from *Laurencia obtusa*. (X-ray crystallographic analysis) (UV, IR, <sup>1</sup>H-NMR, <sup>13</sup>C-NMR) (together with obtusallene I, obtusallene II)

(2) Öztunc, A., Imre, S., Wagner, H., Norte, M., Fernandez, J. J., and Gonzalez, R. 1991. Tetrahedron, **47**, 2273-2276. A new haloether from *Laurencia* possessing a lauroxacyclododecane ring. Structural and conformational studies. (UV, IR, <sup>1</sup>H-NMR, <sup>13</sup>C-NMR)

(together with 10-bromoobtusallene I, obtusallene I)

(3) Öztunc, A., Imre, S., Lotter, H., and Wagner, H. 1991. Phytochemistry, **30**, 255-257. Two C<sub>15</sub> bromoallenes from the red alga *Laurencia obtusa*. (together with a lauroxacyclododecane bromoallene (obtusallene III), obtusallene II, obtusallene I, laurenynes)

(4) Guella, G., Chiasera, G., Mancini, I., Öztunc, A., and Pietra, F. 1997. Chem. Eur. J., **3**, 1223-1231. Twelve-membered O-bridged cyclic ethers of red seaweeds in the genus *Laurencia* exist in solution as slowly interconverting conformers. (UV, CD)

(5) Sutour, S., Therrien, B., von Reuss, S. H., and Tomi, F. 2018. J. Nat. Prod., **81**, 279-285.

Halogenated C<sub>15</sub> acetogenin analogues of obtusallene III from a *Laurenciella* sp. collected in Corsica. (together with 4 obtusallene III derivatives, 1 marilzabicycloallene C derivative, 17 known compounds; (3E)-laurenynes (main component), (3Z)-laurenynes, obtusallene I, 10-bromoobtusallene I, (E)-pinnadifidenynes, obtusins, 4-acetoxymarizallenes, marizallene B, α-bromocuparenes, α-isobromocuparenes, α-snyderols, 1-deacetoxy-8-deoxyalgaones, cycloelatenenes A, 9,15-dibromo-1,3(15)-chamigradien-11-ols, etcetera)