

4817 (C15 acetogenin)

Name: Obtusallene X

{7,9-Dibromo-3-(3-bromo-propa-1,2-dienyl)-12-chloro-5-methyl-4,13-dioxabicyclo[8.2.1]tridecan-6-ol}

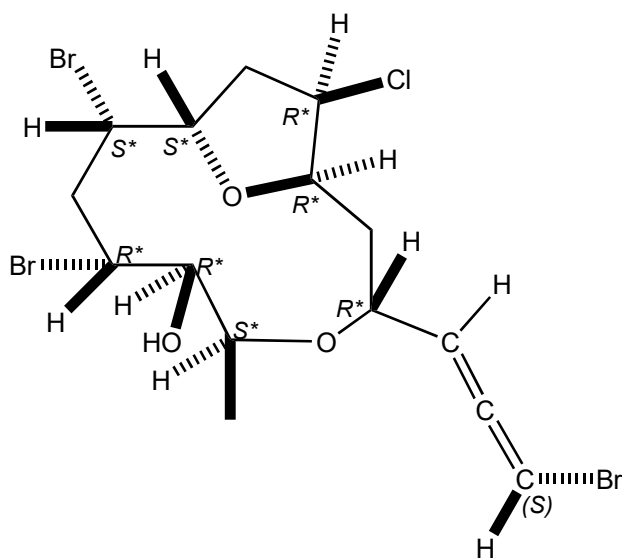
Origin: *Laurencia marilzae* (Paraiso Floral, Canary Islands, Spain)⁽¹⁾;

Formula: C₁₅H₂₀Br₃ClO₃

Mol. Wt.: 523.48

Opt. Rot.: [α]_D²⁵ +20 (CHCl₃)

Mp.: Amorphous



References and Notes

(1) Gutierrez-Cepeda, A., Fernandez, J. J., Gil, L. V., Lopez-Rodriguez, M., Norte, M., and Souto, M. L. 2011. *J. Nat. Prod.*, **74**, 441-448. Nonterpenoid C₁₅ acetogenins from *Laurencia marilzae*. (UV, IR, ¹H-NMR, ¹³C-NMR) (together with 12-epoxyobtusallene IV, obtusallene X, marilzallene, (+)-4-acetoxymarilzallene, (-)-4-acetoxymarilzallene, Z-adrienyne, E-adrienyne, a epoxydodecane deriv., obtusallene IV)

(2) **Total synthesis**; Clarke, J., Bonney, K. J., Yaqoob, M., Solanki, S., Rzepa, H. S., White, A. J. P., Millan, D. S., and Braddock, D. C. 2016. *J. Org. Chem.*, **81**, 9539-9552. Epimeric face-selective oxidations and diastereodivergent transannular oxonium ion formation fragmentations: Computational modeling and total syntheses of 12-epoxyobtusallene IV, 12-epoxyobtusallene II, obtusallene X, marilzabicycloallene C, and marilzabicycloallene D.