

## 4426 (C15 acetogenin)

Name: Laurefurenyne D

{3-Ethyl-9-pent-2-en-4-ynyl-  
2,8-dioxa-bicyclo[5.2.1]decane-4,6-diol}

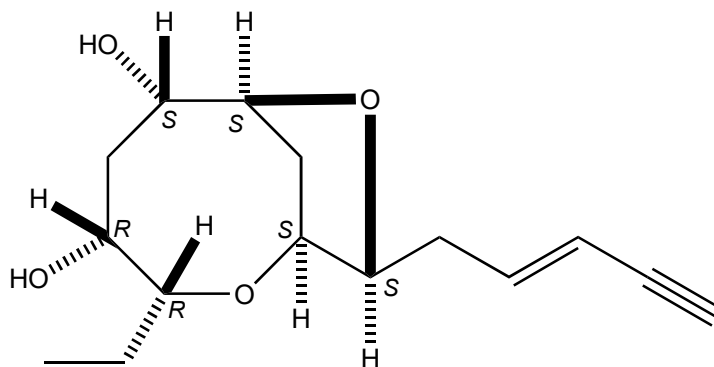
Origin: *Laurencia* sp. (Philippines)<sup>(1)</sup>;

Formula: C<sub>15</sub>H<sub>22</sub>O<sub>4</sub>

Mol. Wt.: 266.33

Opt. Rot.: [ $\alpha$ ]<sub>D</sub><sup>25</sup> +32 (MeOH)<sup>(1)</sup>; [ $\alpha$ ]<sub>D</sub><sup>25</sup> +14.0 (MeOH)<sup>(2)</sup>

Mp.: Amorphous powder



### References and Notes

(1) Abdel-Mageed, W. M., Ebel, R., Valeriote, F. A., and Jaspars, M. 2010. *Tetrahedron*, **66**, 2855-2862. Laurefurenynes A-F, new cyclic ether acetogenins from a marine red alga *Laurencia* sp. (IR, <sup>1</sup>H-NMR, <sup>13</sup>C-NMR) (together with laurefurenynes A-F)

(2) **Structure revision**; Chan, H. S. S., Thompson, A. L., Christensen, K. E., and Burton, J. W. 2020. *Chem. Sci.*, **11**, 11592-11600. Forwards and backwards - synthesis of *Laurencia* natural products using a biomimetic and retrobiomimetic strategy incorporating structural reassignment of laurefurenynes C-F.