

4428# (C15 acetogenin)

Name: Isolaurefucin methyl ether

{4-Bromo-3-ethyl-6-methoxy-9-pent-2-en-4-ynyl-
2,8-dioxa-bicyclo[5.2.1]decane}

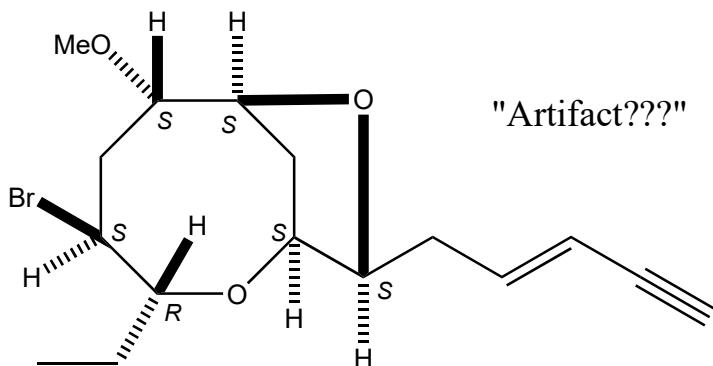
Origin: *Dasyphila plumarioides* (Holmes Reef, Coral Sea, Australia)⁽¹⁾;

Formula: C₁₆H₂₃BrO₃

Mol. Wt.: 343.26

Opt. Rot.: [α]_D +8.0 (CHCl₃)⁽¹⁾; [α]_D²⁵ +9.5 (CHCl₃)⁽²⁾

Mp.: Mobile yellow oil



References and Notes

- (1) de Nys, R., Coll, J. C., Carroll, A. R., and Bowden, B. F. 1993. Aust. J. Chem., **46**, 1073-1077.
Tropical marine algae. X. Isolaurefucin methyl ether, a new lauroxocane derivative from the red alga
Dasyphila plumarioides. (**UV, IR, ¹H-NMR, ¹³C-NMR, MS**)
(together with [isolaurefucin methyl ether](#), chlorofucin)
- (2) **Total synthesis**; Sohn, T., Kim, B., Kim, D., and Paton, R. S. 2018. Heterocycles, **97**, 179-191.
Asymmetric total synthesis and structure confirmation of (+)-(3E)-isolaurefucin methyl ether.