

4116 (C15 acetogenin)

Name: (3Z,9Z,12Z)-(6R,7R)-6-Hydroxy-7-chloro-pentadeca-3,9,12-trien-1-yne
{7-Chloro-pentadeca-3,9,12-trien-1-yn-6-ol}

Origin: *Laurencia pinnatifida* (Tenerife, Canary Islands, Spain)⁽¹⁾;

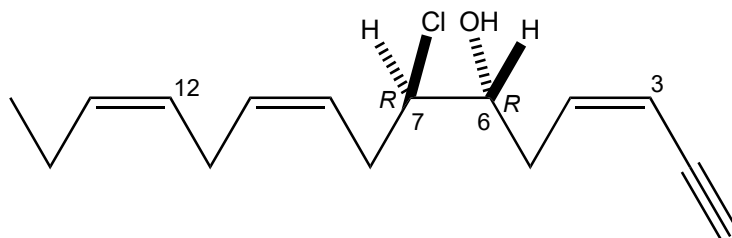
Aplysia fasciata (Alfacs Bay, Delta de l'Ebre, Tarragona, Catalonia, Spain)⁽²⁾;

Formula: C₁₅H₂₁ClO

Mol. Wt.: 252.78

Opt. Rot.: [α]_D²⁵ -16.7 (CHCl₃)

Mp.: Oil



References and Notes

(1) Norte, M., Gonzalez, A. G., Cataldo, F., Rodriguez, M. L., and Brito, I. 1991. *Tetrahedron*, **47**, 9411-9418. New examples of acyclic and cyclic C-15 acetogenins from *Laurencia pinnatifida*.

Reassignment of the absolute configuration for E and Z pinnatifidienyne. (¹H-NMR)

(together with linear and cyclic acetogenins)

(2) **From the sea hare**; Ioannou, E., Nappo, M., Avila C., Vagias, C., and Roussis, V. 2009.

J. Nat. Prod., **72**, 1716-1719. Metabolites from the sea hare *Aplysia fasciata*.

(¹H-NMR, ¹³C-NMR) (together with 6-hydroxy-1-brasilene, epibrasilenol acetate, epibrasilenol, brasilenol, brasilenol acetate, 4-hydroxy-5-brasilene, 4-acetoxy-5-brasilene, 6-*epi*-β-snyderol, 16-acetoxy-15-bromo-7-hydroxy-9(11)-parguerene, 15-bromo-2,16-diacetoxy-7-hydroxy-9(11)-parguerene, luzodiol, (3Z,9Z)-7-chloro-6-hydroxy-12-oxo-pentadeca-3,9-dien-1-yne, (3Z,9Z,12Z)-6-acetoxy-7-chloro-pentadeca-3,9,12-trien-1-yne, (3Z)-venustinene, (3Z)-13-*epi*-pinnatifidienyne, (3E)-laurenyne)