

## 4702 (C15 acetogenin)

Name: Itomanallene B

{Acetic acid 5-(3-bromo-propa-1,2-dienyl)-2-octa-2,5-dienyl-tetrahydro-furan-3-yl ester}

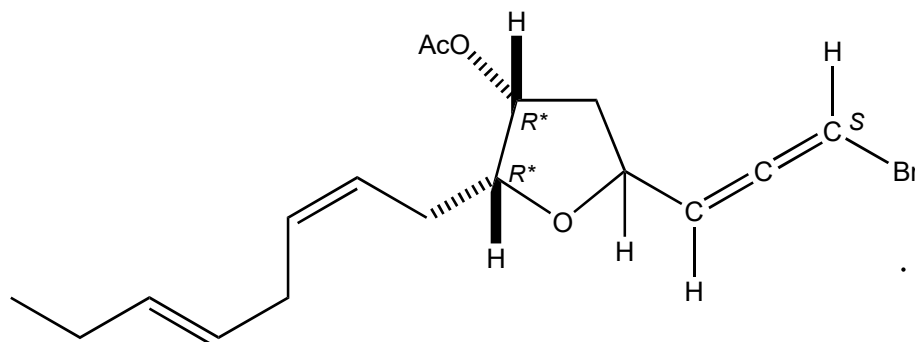
Origin: *Laurencia intricata* (Komesu, Itoman, Okinawa Prefecture, Japan)<sup>(1)</sup>;  
*Laurencia nangii* (Tun Sakaran Marine Park, Sabah, Malaysia)<sup>(2,3)</sup>;

Formula: C<sub>17</sub>H<sub>23</sub>BrO<sub>3</sub>

Mol. Wt.: 355.27

Opt. Rot.: [α]<sub>D</sub><sup>23</sup> +84 (CHCl<sub>3</sub>)<sup>(1)</sup>; [α]<sub>D</sub><sup>28</sup> +84.0 (CHCl<sub>3</sub>)<sup>(3)</sup>

Mp.: Oil



### References and Notes

- (1) Suzuki, M., Takahashi, Y., Mitome, Y., Itoh, T., Abe, T., and Masuda, M. 2002. *Phytochemistry*, **60**, 861-867. Brominated metabolites from an Okinawan *Laurencia intricata*. (IR, <sup>1</sup>H-NMR, <sup>13</sup>C-NMR, MS) (together with itomanallenes A and B)
- (2) Kamada, T. and Vairappan, C. S. 2012. *Molecules*, **17**, 2119-2125. A new bromoallene-producing chemical type of the red alga *Laurencia nangii* Masuda. (<sup>1</sup>H-NMR, <sup>13</sup>C-NMR) (together with dihydroitomanallene B, [itomanallene B](#), pannosallene)
- (3) Vairappan, C. S., Zamil, I. I., and Kamada, T. 2014. *J. Appl. Phycol.*, **26**, 1189-1198. Structural diversity and geographical distribution of halogenated secondary metabolites in red algae, *Laurencia nangii* Masuda (Rhodomelaceae, Ceramiales), in the coastal waters of North Borneo Island. (<sup>1</sup>H-NMR, <sup>13</sup>C-NMR)