

Product Data Sheet

Product Name: Dihydropyrenophorin

Cat. No.: GC48780

Chemical Properties

Cas. No. 1073287-13-4

SMILES C[C@H]1OC(/C=C/C(CC[C@H](OC(/C=C/[C@H](CC1)O)=O)C)=O)=O

Formula C₁₆H₂₂O₆

M.Wt 310.3

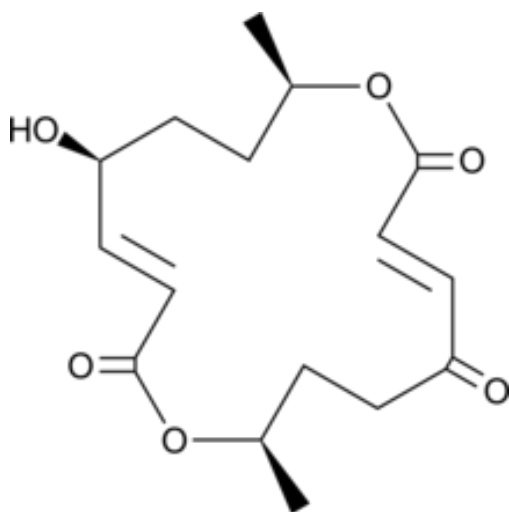
Solubility

Storage -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



Background

Dihydropyrenophorin is a macrolide fungal metabolite and derivative of pyrenophorin originally isolated from *D. avenae* that has herbicidal and phytotoxic activities.¹ It is herbicidal against *S. halepense* when used at a concentration of 0.065 μM. Dihydropyrenophorin is phytotoxic to a variety of agricultural crops, including barley, sorghum, wheat, and oats, as well as grasses, including goosegrass and Bermuda grass, in leaf puncture assays.

1. Sugawara, F., and Strobel, G.A. (-)-Dihydropyrenophorin, a novel and selective phytotoxin produced

Caution: Product has not been fully validated for medical applications. For research use only.

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by Drechslera avenae Plant Sci. 43(1) 1-5 (1986)

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