

Product Data Sheet

Product Name: (+)-Sorokinianin

Cat. No.: GC48783

Chemical Properties

Cas. No. 162616-73-1

SMILES OC[C@H]1[C@@]2([H])[C@]([C@@]3([H])OC([C@H](O)C3)=O)([H])C([C@@]1(CC[C@@H]2C(C)C)C)=C

Formula C₁₈H₂₈O₄

M.Wt 308.4

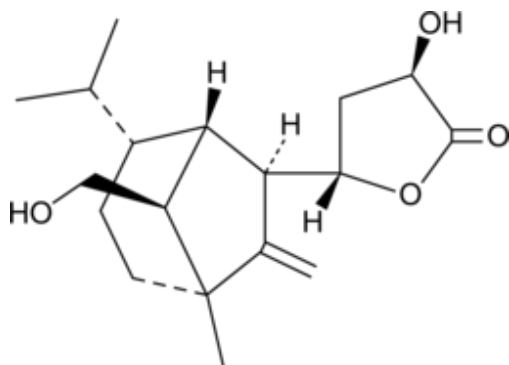
Solubility

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

(+)-Sorokinianin is a phytotoxic fungal metabolite originally isolated from *B. sorokiniana*.¹ It inhibits germination of barley (*H. vulgare*) seeds when used at a concentration of 300 µM. (+)-Sorokinianin is cytotoxic to protoplasts isolated from barley first leaves (IC₅₀ = 150 µM).

1. Nakajima, H., Isomi, K., and Hamasaki, T. Sorokinianin: A novel phytotoxin produced by the phytopathogenic fungus *Bipolaris sorokiniana*. *Tetrahedron Lett.* 35(51):9597-9600 (1994)

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

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