

Product Data Sheet

Product Name: Sporothriolide

Cat. No.: GC48097

Chemical Properties

Cas. No. 154799-92-5

SMILES CCCCC[C@H]([C@@](OC1=O)([H])[C@]2([H])C1=C)OC2=O

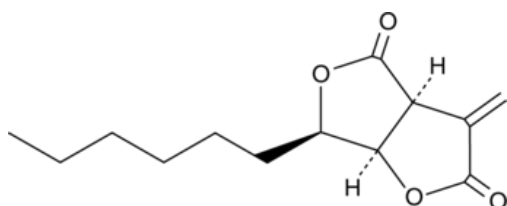
Formula C₁₃H₁₈O₄ M.Wt 238.3

Solubility Dichloromethane: soluble, DMSO: Storage Store at -20°C
soluble, Ethanol: soluble, Methanol:
soluble

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

Sporothriolide is a fungal metabolite that has been found in *Sporothrix*.¹ It is active against the plant pathogenic fungi *U. violacea*, *M. microspore*, and *E. repens*, and the alga *C. fusca*, but not the bacteria *B. megaterium* and *E. coli*, when used at a concentration of 10 mg/ml. Sporothriolide inhibits mycelial growth of the plant pathogenic fungus *R. solani* (EC₅₀ = 3.04 µg/ml) and protects against *R. solani*-induced rice sheath blight on rice plants when used at a concentration of 200 µg/ml.² It also prevents necrosis induced by the plant pathogenic fungus *B. cinerea* in pepper seedlings at 500 ppm.¹ Sporothriolide (4 mg/ml) prevents germination of *L. sativum* and *M. sativa* seedlings.

1. Krohn, K., Ludewig, K., Aust, H.-J., et al. Biologically active metabolites from fungi. 3. sporothriolide, discosiolide, and 4-epi-ethisolide--new furofurandiones from *Sporothrix* sp., *Discosia* sp., and

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

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Pezicula livida J. Antibiot. (Tokyo) 47(1) 113-118 (1994) 2. Cao, L.-L., Zhang, Y.-Y., Liu, Y.-J., et al. Anti-phytopathogenic activity of sporothriolide, a metabolite from endophyte Nodulisporium sp. A21 in Ginkgo biloba Pestic. Biochem. Physiol. 129:7-13 (2016)

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