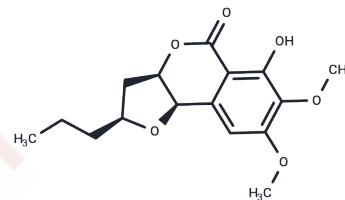


Monocerin

Chemical Properties

CAS No. :	30270-60-1
Formula:	C ₁₆ H ₂₀ O ₆
Molecular Weight:	308.33
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Monocerin is a fungal metabolite that has been found in <i>F. larvarum</i> and has diverse biological activities. ^{1,2,3} It is active against the bacteria <i>E. coli</i> and <i>B. megaterium</i> , the phytopathogenic fungus <i>M. violaceum</i> , and the alga <i>C. fusca</i> in an agar diffusion assay when used at a concentration of 50 µg/disc. 1 Monocerin (17.5 µg/ml) induces mortality in adult <i>C. erythrocephala</i> . 2 It reduces root elongation in pre-germinated <i>S. halepense</i> seeds when used at a concentration of 33 ppm. ³
Targets(IC50)	Others, Antibacterial, Antifungal

Solubility Information

Solubility	DMSO: Soluble Ethanol: Soluble Dichloromethane: Soluble Methanol: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.2433 mL	16.2164 mL	32.4328 mL
5 mM	0.6487 mL	3.2433 mL	6.4866 mL
10 mM	0.3243 mL	1.6216 mL	3.2433 mL
50 mM	0.0649 mL	0.3243 mL	0.6487 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Zhang, W., Krohn, K., Draeger, S., et al. Bioactive isocoumarins isolated from the endophytic fungus *Microdochium bolleyi*. *Nat. Prod.* 71(6)1078-1081(2008)

Claydon, N., Grove, J.F., and Pople, M. Insecticidal secondary metabolic products from the entomogenous fungus *Fusarium larvarum*. *J. Invertebr. Pathol.* 33(3)364-367(1979)

Robeson, D.J., and Strobel, G.A. Monocerin, a phytotoxin from *Exserohilum turcicum* (*Drechslera turcica*). *Agr. Biol. Chem.* 46(11)2681-2683(1982)

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