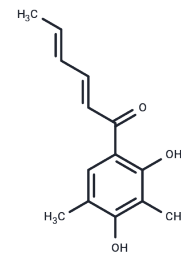


Sorbicillin

Chemical Properties

CAS No. :	79950-85-9
Formula:	C ₁₄ H ₁₆ O ₃
Molecular Weight:	232.28
Storage:	Keep away from direct sunlight, Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	Sorbicillin is a sorbic acid-like compound extracted from Penicillium, with anti-inflammatory and antibacterial activities. It induces apoptosis in HL-60 cells and has potential neuroprotective activity, making it useful for studying neurological diseases.
Targets(IC50)	Others, Antibacterial

Solubility Information

Solubility	DMSO: 250 mg/mL (1076.29 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: < 10 mg/mL (43.05 mM), Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 10 mg/mL (43.05 mM), Solution. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.3051 mL	21.5257 mL	43.0515 mL
5 mM	0.861 mL	4.3051 mL	8.6103 mL
10 mM	0.4305 mL	2.1526 mL	4.3051 mL
50 mM	0.0861 mL	0.4305 mL	0.861 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

Trifonov L S, et al. Isolation and structure elucidation of three metabolites from *Verticillium intertextum*: sorbicillin, dihydrosorbicillin and bisvertinoquinol. *Tetrahedron* 39.24 (1983): 4243-4256.

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