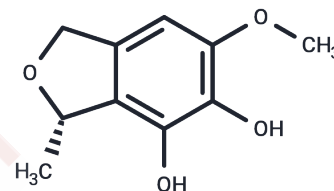


Curvulol

Chemical Properties

CAS No. :	15817-76-2
Formula:	C ₁₀ H ₁₂ O ₄
Molecular Weight:	196.20
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	Curvulol, an antimicrobial agent with a polyketone structure, can be isolated from <i>Taxus baccata</i> (<i>Chaetosphaeronema achilleae</i>). It exhibits significant cytotoxicity against L929 and KB-3-1 cells and effectively inhibits the biofilm formation of <i>Staphylococcus aureus</i> , with a minimum inhibitory concentration (MIC) of 64 µg/mL.
Targets(IC50)	Antibacterial, Antifungal
In vitro	Curvulol (Compound 7) exhibits antibacterial activity against <i>Rhodoturula glutinis</i> DSM 10134, <i>Schizosaccharomyces pombe</i> DSM 70572, <i>Staphylococcus aureus</i> DSM 346, and <i>Bacillus subtilis</i> DSM 10, with a minimum inhibitory concentration (MIC) of 33.33 µg/mL. It also shows significant cytotoxicity, with IC ₅₀ values of 5.5 µg/mL for L929 cells and 7.5 µg/mL for KB-3-1 cells. Additionally, Curvulol (4-256 µg/mL) strongly inhibits <i>Staphylococcus aureus</i> biofilm formation at 256 µg/mL, achieving an inhibition rate of 96.18% and an MIC of 64 µg/mL.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.0968 mL	25.4842 mL	50.9684 mL
5 mM	1.0194 mL	5.0968 mL	10.1937 mL
10 mM	0.5097 mL	2.5484 mL	5.0968 mL
50 mM	0.1019 mL	0.5097 mL	1.0194 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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