

Germicidin A

Chemical Properties

CAS No. :	151271-57-7
Formula:	C ₁₁ H ₁₆ O ₃
Molecular Weight:	196.24
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>

Biological Description

Description	Germicidin A is a pyranone originally derived from <i>S. viridochromogenes</i> that acts as a reversible, autoregulative inhibitor of spore germination and hyphal elongation in the genus <i>Streptomyces</i> at concentrations as low as 200 pM. During germination, spores of <i>Streptomyces</i> excrete germicidin A along with other germicidin homologs, which inhibit germination of its own arthrospores. At higher concentrations, germicidin A can inhibit the porcine Na ⁺ /K ⁺ -activated ATPase (ID ₅₀ = 100 μM) and prevent the germination of the cress <i>L. sativum</i> .
Targets(IC50)	Others

Solubility Information

Solubility	Methanol: Soluble DMSO: Soluble DMF: Soluble Ethanol: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	---

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.0958 mL	25.479 mL	50.958 mL
5 mM	1.0192 mL	5.0958 mL	10.1916 mL
10 mM	0.5096 mL	2.5479 mL	5.0958 mL
50 mM	0.1019 mL	0.5096 mL	1.0192 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

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481