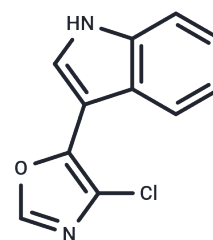


Streptochlorin

Chemical Properties

CAS No. :	120191-51-7
Formula:	C ₁₁ H ₇ ClN ₂ O
Molecular Weight:	218.64
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Streptochlorin is a bacterial metabolite originally isolated from Streptomyces sp. SF2583 that has diverse biological activities, including antiangiogenic, antiproliferative, and anti-allergic properties. It inhibits TNF- α -induced NF- κ B transcriptional activity and decreases proliferation of human umbilical vein endothelial cells (HUVECs) when used at concentrations ranging from 5 to 20 μ M. Streptochlorin (12 μ g/ml) decreases viability of, as well as induces apoptosis and increases the production of reactive oxygen species (ROS) in, Hep3B human hepatocellular carcinoma cells. It does not induce cytotoxicity in RBL-2H3 mast cells at concentrations up to 100 μ M. Streptochlorin prevents degranulation in antigen-stimulated mast cells, as well as inhibits Syk kinase and the Src family kinases LYN and Fyn and reduces the secretion of TNF- α and IL-4 induced by dinitrophenyl-human serum album (DNP-HSA) in RBL-2H3 mast cells. It also decreases swelling and reduces scratching behavior in a mouse model of allergic dermatitis induced by dinitrofluorobenzene (DNFB).
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Solubility Information

Solubility	DMSO: 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	4.5737 mL	22.8686 mL	45.7373 mL
5 mM	0.9147 mL	4.5737 mL	9.1475 mL
10 mM	0.4574 mL	2.2869 mL	4.5737 mL
50 mM	0.0915 mL	0.4574 mL	0.9147 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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

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