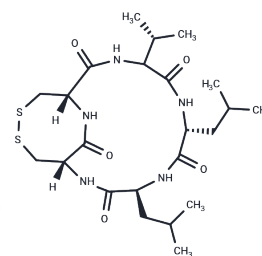


Malformin C

Chemical Properties

CAS No. :	59926-78-2
Formula:	C ₂₃ H ₃₉ N ₅ O ₅ S ₂
Molecular Weight:	529.72
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	Malformin C is a natural fungus-derived bicyclic pentapeptide that has antibacterial properties, particularly against species of Bacillus. Malformin C potently blocks the ability of bleomycin to induce G2 arrest in human T-cell leukemia-derived Jurkat cells (IC ₅₀ = 0.9 nM). It less potently abrogates colchicine-induced M phase arrest in Jurkat cells (IC ₅₀ = 24 nM). Malformin C inhibits cell growth dose-dependently in Colon 38 and HCT 115 cancer cells (IC ₅₀ s = 0.27 and 0.18 μM, respectively) but has a low therapeutic index against cancer xenografts when tested in mice.
Targets(IC ₅₀)	Others, Reactive Oxygen Species

Solubility Information

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

	1mg	5mg	10mg
1 mM	1.8878 mL	9.4389 mL	18.8779 mL
5 mM	0.3776 mL	1.8878 mL	3.7756 mL
10 mM	0.1888 mL	0.9439 mL	1.8878 mL
50 mM	0.0378 mL	0.1888 mL	0.3776 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

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