

(-)-Viriditoxin

Chemical Properties

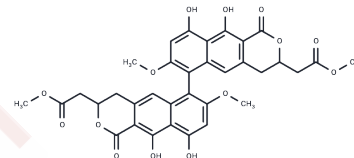
CAS No. : 1381782-08-6

Formula: C34H30O14

Molecular Weight: 662.6

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	(-)-Viriditoxin is a mycotoxin originally isolated from <i>A. viridinutans</i> that has antibacterial and antiproliferative activity. It is active against methicillin-sensitive and -resistant <i>S. aureus</i> (MSSA and MRSA, respectively), tetracycline-sensitive and -resistant <i>Staphylococcus</i> , vancomycin-sensitive and -resistant <i>Enterococcus</i> , and penicillin-sensitive and -resistant <i>S. pneumoniae</i> (MICs = 2-32 µg/ml). (-)-Viriditoxin is also active against fish pathogens, including <i>S. iniae</i> and <i>S. parauberis</i> (MICs = 0.16-0.21 µg/ml). It inhibits polymerization and the GTPase activity of <i>E. coli</i> FtsZ, a tubulin-like GTPase involved in bacterial cell division (IC50s = 8.2 and 7 µg/ml, respectively). (-)-Viriditoxin inhibits proliferation of human DU145, LNCaP, and PC3 prostate cancer cells (IC50s = 5.36, 0.63, and 7.6 µM, respectively). It is also toxic to mice (LD50 = 2.8 mg/kg, i.p.).
Targets(IC50)	Others

Solubility Information

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

	1mg	5mg	10mg
1 mM	1.5092 mL	7.546 mL	15.0921 mL
5 mM	0.3018 mL	1.5092 mL	3.0184 mL
10 mM	0.1509 mL	0.7546 mL	1.5092 mL
50 mM	0.0302 mL	0.1509 mL	0.3018 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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