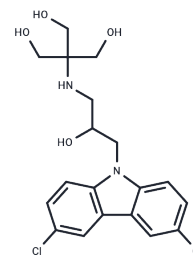


DCAP

Chemical Properties

CAS No. :	500015-20-3
Formula:	C ₁₉ H ₂₂ Cl ₂ N ₂ O ₄
Molecular Weight:	413.3
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	DCAP is a potent broad-spectrum antibiotic lead derived from natural products. It exerts bactericidal effects by specifically inducing bacterial membrane permeabilization and irreversible loss of membrane potential, demonstrating excellent in vitro activity against resistant Gram-positive bacteria.
Targets(IC50)	Antibacterial
In vitro	DCAP exhibits broad-spectrum antibacterial activity by disrupting membranes and autophagy flux [1].; it enhances the anticancer efficiency of Vorinostat [1].

Solubility Information

Solubility	DMSO: 4 mg/mL (9.68 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4195 mL	12.0977 mL	24.1955 mL
5 mM	0.4839 mL	2.4195 mL	4.8391 mL
10 mM	0.242 mL	1.2098 mL	2.4195 mL
50 mM	0.0484 mL	0.242 mL	0.4839 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.

Reference

Sever B, et al. Design, synthesis, in vitro and in silico investigation of aldose reductase inhibitory effects of new thiazole-based compounds. Bioorg Chem. 2020 Sep;102:104110.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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