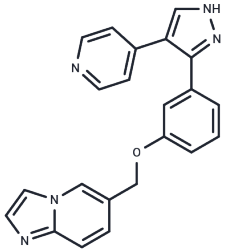
Data Sheet (Cat.No.T11866)

TargetMol

LolCDE-IN-2

Chemical Properties



CAS No. : 2748443-01-6

Formula: C22H17N5O

Molecular Weight: 367.40

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	LolCDE-IN-2 is a potent and selective inhibitor of the Lol protein (LolCDE) with antibacterial activity. LolCDE-IN-2 exerts its antibacterial activity by blocking the lipoprotein transport system in Gram-negative bacteria. LolCDE-IN-2 has an MIC of 2 μg/ml against Escherichia coli MG1655 and also shows inhibitory activity against Pseudomonas aeruginosa.
Targets(IC50)	Antibacterial
In vitro	The P. aeruginosa ΔlolCDE::CTX-lolCDE E. coli strain becomes more susceptible to LolCDE-IN-2 (compound 2A) when either the MexAB-OprM efflux pump is lacking or the permeability of its OM is increased by the expression of the FpvA-ΔP protein; in each case, these strains show an MIC of 16 μg/ml [1]. LolCDE-IN-2 likely interacts with residues in the binding regions of E. coli LolCDE.

Solubility Information

Solubility	DMSO: 80 mg/mL (217.75 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7218 mL	13.6091 mL	27.2183 mL
5 mM	0.5444 mL	2.7218 mL	5.4437 mL
10 mM	0.2722 mL	1.3609 mL	2.7218 mL
50 mM	0.0544 mL	0.2722 mL	0.5444 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

Christian Lorenz, et al. Correct Sorting of Lipoproteins into the Inner and Outer Membranes of Pseudomonas aeruginosa by the Escherichia coli LolCDE Transport System. Molecular Biology and Physiology.

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