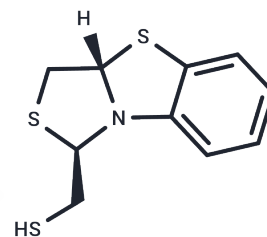


Metallo- β -lactamase-IN-15

Chemical Properties

CAS No. :	1804934-57-3
Formula:	C ₁₀ H ₁₁ NS ₃
Molecular Weight:	241.4
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	Metallo- β -lactamase-IN-15 (Compound \pm 13), a potent inhibitor of MBL, demonstrates IC ₅₀ values of 0.29 μ M for NDM-1, 0.088 μ M for IMP-1, and 0.063 μ M for VIM-2, respectively [1].
Targets(IC ₅₀)	Antibacterial
In vitro	Metallo- β -lactamase-IN-15 (Compound \pm 13) at concentrations of 50 μ g/mL and 100 μ g/mL exhibits no cytotoxicity towards L929 cells and demonstrates favorable bioavailability and plasma stability. When tested at 100 μ g/mL for 1, 3, and 5 hours against E.coli DH5 α strains expressing NDM-1, Metallo- β -lactamase-IN-15 restores imipenem's in vitro activity and reduces the minimum inhibitory concentration of meropenem in clinical E.coli DH5 α strains. [1]

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.1425 mL	20.7125 mL	41.425 mL
5 mM	0.8285 mL	4.1425 mL	8.285 mL
10 mM	0.4143 mL	2.0713 mL	4.1425 mL
50 mM	0.0829 mL	0.4143 mL	0.8285 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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