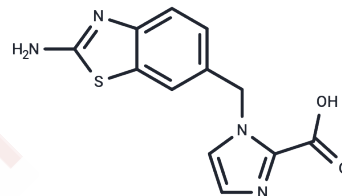


Metallo- β -lactamase-IN-7

Chemical Properties

CAS No. :	2752453-58-8
Formula:	C ₁₂ H ₁₀ N ₄ O ₂ S
Molecular Weight:	274.3
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	Metallo- β -lactamase-IN-7 is a potent inhibitor of VIM-type metallo- β -lactamase with IC ₅₀ values of 0.019 μ M, 13.64 μ M, and 0.38 μ M for VIM-2, VIM-1, and VIM-5, respectively. Metallo- β -lactamase-IN-7 also enhances the antibacterial activity of Meropenem against Gram-negative bacterial strains [1].
Targets(IC ₅₀)	Others,Antibacterial
In vitro	Metallo- β -lactamase-IN-7 (compound 59) at 10 μ M over 18-20 hours enhances Meropenem effectiveness against VIM-2 mediated resistance, with a Fractional Inhibitory Concentration (FIC) index of 0.02 [1]. At 100 μ M, it further increases Meropenem's activity against PA W35, with an FIC index of 0.125 [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.6456 mL	18.2282 mL	36.4564 mL
5 mM	0.7291 mL	3.6456 mL	7.2913 mL
10 mM	0.3646 mL	1.8228 mL	3.6456 mL
50 mM	0.0729 mL	0.3646 mL	0.7291 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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