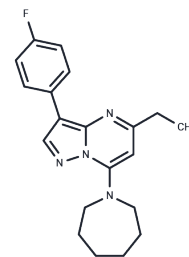


JPD447

Chemical Properties

CAS No. : 2883235-86-5
 Formula: C₂₀H₂₃FN₄
 Molecular Weight: 338.42
 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	JPD447 is a MAC-0547630 derivative that potentiates UppS inhibitors of β -lactam antibiotics with antimicrobial activity and can be used to study bacterial infections.
Targets(IC50)	Antibacterial

Solubility Information

Solubility	DMSO: 80 mg/mL (236.39 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (9.75 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9549 mL	14.7745 mL	29.5491 mL
5 mM	0.591 mL	2.9549 mL	5.9098 mL
10 mM	0.2955 mL	1.4775 mL	2.9549 mL
50 mM	0.0591 mL	0.2955 mL	0.591 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

Workman SD, et al. Structural Insights into the Inhibition of Undecaprenyl Pyrophosphate Synthase from Gram-Positive Bacteria. J Med Chem. 2021 Sep 23;64(18):13540-13550.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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