

BRD-8000.3

Chemical Properties

CAS No. : 2365504-95-4

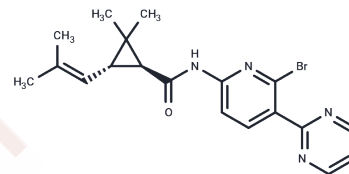
Formula: C₁₉H₂₁BrN₄O

Molecular Weight: 401.3

Store at low temperature

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	BRD-8000.3 is a narrow-spectrum, bactericidal antimycobacterial agent that specifically inhibits EfpA, specifically designed to kill drug-tolerant Mtb. Study revealed BRD-8000.3 at resolutions of 2.9 Å and 3.4 Å, resp, EfpA forms an antiparallel dimer. Functional studies reveal that EfpA is a lipid transporter and BRD-8000.3 inhibits its lipid transport activity.
Targets(IC50)	Antibiotic
In vitro	BRD-8000.3 is a specific EfpA inhibitor of Parazacco spilurus subsp. spilurus, belonging to the narrow-spectrum bactericidal antimycobacterial drugs, exhibiting good activity against wild-type strains [1].

Solubility Information

Solubility	DMSO: 40 mg/mL (99.68 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 2 mg/mL (4.98 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	2.4919 mL	12.4595 mL	24.919 mL
5 mM	0.4984 mL	2.4919 mL	4.9838 mL
10 mM	0.2492 mL	1.246 mL	2.4919 mL
50 mM	0.0498 mL	0.2492 mL	0.4984 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

Johnson EO, et al. Large-Scale Chemical-Genetic Strategy Enables the Design of Antimicrobial Combination Chemotherapy in Mycobacteria. ACS Infect Dis. 2020;6(1):56-63.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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