

BDM31343

Chemical Properties

CAS No. : 1001468-07-0

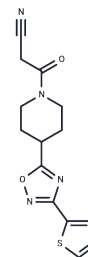
Formula: C₁₄H₁₄N₄O₂S

Molecular Weight: 302.35

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	BDM31343, an EthR inhibitor in Mycobacterium tuberculosis, enhances the antimicrobial activity of ethionamide with nanomolar potency, while improving solubility and metabolic stability.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 6.06 mg/mL (20.04 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.3074 mL	16.5371 mL	33.0743 mL
5 mM	0.6615 mL	3.3074 mL	6.6149 mL
10 mM	0.3307 mL	1.6537 mL	3.3074 mL
50 mM	0.0661 mL	0.3307 mL	0.6615 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

Engohang-Ndong J. Antimycobacterial drugs currently in Phase II clinical trials and preclinical phase for tuberculosis treatment. Expert Opin Investig Drugs. 2012 Dec;21(12):1789-800.

Willand N, et al. Synthetic EthR inhibitors boost antituberculous activity of ethionamide. Nat Med. 2009 May;15(5):537-44.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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