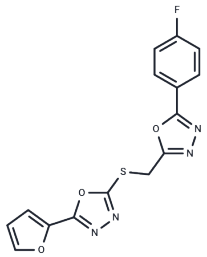
Data Sheet (Cat.No.T80925)

TargetMol

Tuberculosis inhibitor 12

Chemical Properties



CAS No. : 793729-44-9

Formula: C15H9FN4O3S

Molecular Weight: 344.32

Storage: Keep away from direct sunlight
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	Tuberculosis inhibitor 12 is a potent MmpL3 protein inhibitor (MIC = 0.25 μM). It blocks mycolic acid transport to disrupt cell wall integrity, used for anti-tuberculosis drug development research.
Targets(IC50)	Antibiotic
In vitro	Tuberculosis inhibitor 12 (20 uM) shows 78-82% inhibition against M. tuberculosis, specifically linked to butyrate metabolism [1].

Solubility Information

Solubility	DMSO: 40 mg/mL (116.17 mM),Sonication is recommmended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9043 mL	14.5214 mL	29.0428 mL
5 mM	0.5809 mL	2.9043 mL	5.8086 mL
10 mM	0.2904 mL	1.4521 mL	2.9043 mL
50 mM	0.0581 mL	0.2904 mL	0.5809 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

Babu BR, et al. N5-(1-Imino-3-butenyl)-L-ornithine. A neuronal isoform selective mechanism-based inactivator of nitric oxide synthase. J Biol Chem. 1998 Apr 10;273(15):8882-9.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481