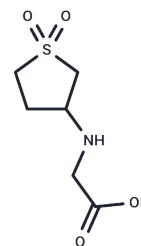


JFD01307SC

Chemical Properties

CAS No. : 51070-56-5
Formula: C₆H₁₁NO₄S
Molecular Weight: 193.22
Appearance: no data available
Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	JFD01307SC ([1,1-DIOXIDOTETRAHYDROTHIEN-3-YL)AMINO]) is a glutamine synthetase inhibitor. It is anti-tuberculosis agent and acts as a mimic of L-Glutamate and thus target enzymes involved in glutamine biosynthesis.
Targets(IC50)	Antibacterial

Solubility Information

Solubility	DMSO: 2 mg/mL (10.35 mM), Sonication and heating to 80°C are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.1754 mL	25.8772 mL	51.7545 mL
5 mM	1.0351 mL	5.1754 mL	10.3509 mL
10 mM	0.5175 mL	2.5877 mL	5.1754 mL
50 mM	0.1035 mL	0.5175 mL	1.0351 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.

Reference

Gyanu Lamichhane, et al. Essential metabolites of Mycobacterium tuberculosis and their mimics. mBio. 2011 Feb 1;2(1):e00301-10.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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