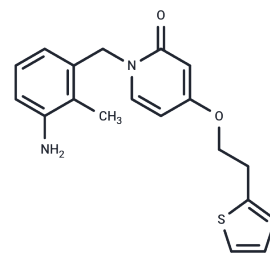


Nilofabacin

Chemical Properties

CAS No. :	934628-27-0
Formula:	C ₁₉ H ₂₀ N ₂ O ₂ S
Molecular Weight:	340.44
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Nilofabacin (CG-400549) is a potent inhibitor of enoyl-(acyl-carrier-protein) reductase (FabI) and can be used in studies about the treatment of complicated acute.
Targets(IC ₅₀)	Antibacterial
In vitro	Nilofabacin had an MIC ₉₀ of 0.5 µg/ml for Staphylococcus aureus strains and was more potent than either linezolid or vancomycin. Among 203 strains of Staphylococcus aureus, the MICs of Nilofabacin were 0.06 to 1.0 µg/ml, with MIC(50) and MIC(90) values of 0.25 µg/ml each. All strains were susceptible to linezolid and quinupristin-dalfopristin (MICs, 0.25 to 2.0 µg/ml)[3].

Solubility Information

Solubility	DMSO: 95 mg/mL (279.05 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9374 mL	14.6869 mL	29.3738 mL
5 mM	0.5875 mL	2.9374 mL	5.8748 mL
10 mM	0.2937 mL	1.4687 mL	2.9374 mL
50 mM	0.0587 mL	0.2937 mL	0.5875 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

Kim BY, Sohn YT. Solid state of CG-400549, a novel FabI inhibitor: characterization, dissolution, transformation. Arch Pharm Res. 2011 May;34(5):775-9. doi: 10.1007/s12272-011-0511-7. Epub 2011 Jun 9. PubMed PMID:

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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