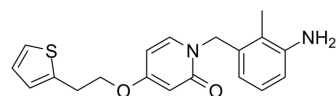


Nilofabacin

Cat. No.:	HY-111071
CAS No.:	934628-27-0
Molecular Formula:	C ₁₉ H ₂₀ N ₂ O ₂ S
Molecular Weight:	340.44
Target:	Bacterial; Antibiotic
Pathway:	Anti-infection
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (293.74 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		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
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (7.34 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (7.34 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (7.34 mM); Clear solution 					

BIOLOGICAL ACTIVITY

Description	Nilofabacin is an enoyl-(acyl-carrier protein) reductase (FabI) inhibitor. Nilofabacin had an MIC(90) of 0.5 microg/ml for Staphylococcus aureus strains and was more potent than either linezolid or vancomycin ^[1] .
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REFERENCES

[1]. Jong Hwa Yum, et, al. In Vitro Activities of CG400549, a Novel FabI Inhibitor, against Recently Isolated Clinical Staphylococcal Strains in Korea. Antimicrob Agents Chemother. 2007 Jul; 51(7): 2591–2593.

Caution: Product has not been fully validated for medical applications. For research use only.

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