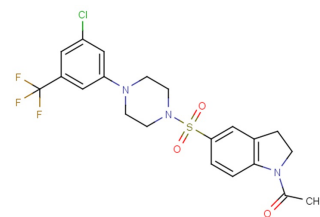


JH-LPH-33

Chemical Properties

CAS No.:	T11716
Formula:	C ₂₁ H ₂₁ ClF ₃ N ₃ O ₃ S
Molecular Weight:	487.92
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	JH-LPH-33 displays outstanding antibiotic activity with a MIC value of 0.66 µg/mL. JH-LPH-33, a sulfonyl piperazine analog, is a potent UDP-2,3-diacylglucosamine pyrophosphate hydrolase LpxH inhibitor.
Targets(IC ₅₀)	Others: None
In vitro	JH-LPH-33 potently inhibits bacterial growth at 1.6 µg/mL and displays a MIC value of >64 µg/mL against E. coli. JH-LPH-33 displays IC ₅₀ values of 0.026 µM against K. pneumoniae LpxH and 0.046 µM against E. coli LpxH, respectively.

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.05 mL	10.248 mL	20.495 mL
5 mM	0.41 mL	2.05 mL	4.099 mL
10 mM	0.205 mL	1.025 mL	2.05 mL
50 mM	0.041 mL	0.205 mL	0.41 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Cho J, et al. Structural basis of the UDP-diacylglucosamine pyrophosphohydrolase LpxH inhibition by sulfonyl piperazine antibiotics. Proc Natl Acad Sci U S A. 2020 Feb 25;117(8):4109-4116.

Inhibitors · Natural Compounds · Compound Libraries

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