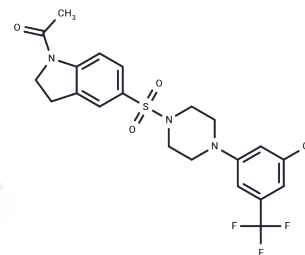


JH-LPH-33

## Chemical Properties

CAS No. :	2414590-04-6
Formula:	C <sub>21</sub> H <sub>21</sub> ClF <sub>3</sub> N <sub>3</sub> O <sub>3</sub> S
Molecular Weight:	487.92
Storage:	Store at low temperature Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	JH-LPH-33 is a UDP-2,3-diacylglucosamine pyrophosphate hydrolase LpxH inhibitor with antimicrobial activity for the study of bacterial infections.
Targets(IC50)	Antibacterial
In vitro	The activity of JH-LPH-33 against <i>Klebsiella pneumoniae</i> LpxH and <i>Escherichia coli</i> LpxH exhibited IC <sub>50</sub> values of 0.026 μM and 0.046 μM, respectively. JH-LPH-33 significantly inhibited bacterial growth at a concentration of 1.6 μg/mL, but its minimum inhibitory concentration (MIC) against <i>E. coli</i> exceeded 64 μg/mL. [1]

## Solubility Information

Solubility	DMSO: 1 mg/mL (2.05 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0495 mL	10.2476 mL	20.4952 mL
5 mM	0.4099 mL	2.0495 mL	4.099 mL
10 mM	0.205 mL	1.0248 mL	2.0495 mL
50 mM	0.041 mL	0.205 mL	0.4099 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

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.

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