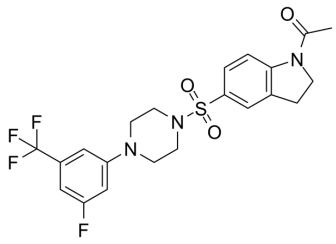
JH-LPH-28

Cat. No.:	HY-130837
CAS No.:	2414592-36-0
Molecular Formula:	$C_{21}H_{21}F_4N_3O_3S$
Molecular Weight:	471.47
Target:	Bacterial
Pathway:	Anti-infection

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 12.5 mg/mL (26.51 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	2.1210 mL	10.6051 mL	21.2103 mL
	5 mM	0.4242 mL	2.1210 mL	4.2421 mL
	10 mM	0.2121 mL	1.0605 mL	2.1210 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

JH-LPH-28, a sulfonyl piperazine analog, is a potent UDP-2,3-diacylglucosamine pyrophosphate hydrolase LpxH inhibitor. JH-LPH-28 displays outstanding antibiotic activity with a MIC value of 0.83 μg/mL[1].

In Vitro

JH-LPH-28 displays IC_{50} values of 0.11 μM against K. pneumoniae LpxH and 0.083 μM against E. coli LpxH, respectively[1]. JH-LPH-28 potently inhibits bacterial growth at 2.8 μg/mL and displayes a MIC value of 1.6 μg/mL against wild-type K. pneumoniae (ATCC 10031)[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[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.

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

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