

JH-LPH-28

## Chemical Properties

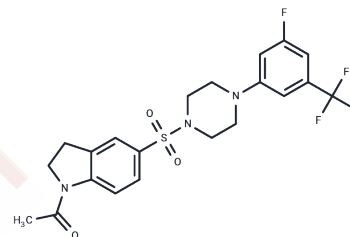
CAS No. : 2414592-36-0

Formula:

Molecular Weight:

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	JH-LPH-28, a sulfonyl piperazine analog, is a potent inhibitor of UDP-2,3-diacetylglucosamine pyrophosphate hydrolase LpxH, exhibiting exceptional antibiotic activity with a minimum inhibitory concentration (MIC) of 0.83 µg/mL.
Targets(IC50)	Others,Antibacterial
In vitro	JH-LPH-28 effectively suppresses bacterial growth with a concentration as low as 2.8 µg/mL and demonstrates a Minimum Inhibitory Concentration (MIC) of 1.6 µg/mL against wild-type K. pneumoniae. Additionally, it exhibits IC50 values of 0.11 µM against K. pneumoniae LpxH and 0.083 µM against E. coli LpxH, indicating strong inhibitory activity against these bacterial enzymes.

## Reference

Cho J, et al. Structural basis of the UDP-diacetylglucosamine 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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