
Product Data Sheet

Product Name: JH-LPH-33

Cat. No.: GC69314

Chemical Properties

Cas. No. 2414590-04-6

Formula $C_{21}H_{21}ClF_3N_3O_3S$

M.Wt 487.92

Solubility DMSO : 2 mg/mL (4.10 mM; ultrasonic and warming and heat to 60°C)

Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

JH-LPH-33, a sulfonyl piperazine analog, is a potent UDP-2,3-diacylglycosamine pyrophosphate drolase **LpxH** inhibitor. JH-LPH-33 displays outstanding **antibiotic** activity with a MIC value of 0.66 µg/mL^[1].

JH-LPH-33 displays IC₅₀ values of 0.026 µM against *K. pneumoniae* LpxH and 0.046 µM against *E. coli* LpxH, respectively^[1].

JH-LPH-33 potently inhibits bacterial growth at 1.6 µg/mL and displays a MIC value of >64 µg/mL against *E. coli*^[1].

[1]. Cho J, et al. Structural basis of the UDP-diacylglycosamine pyrophosphodrolase 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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