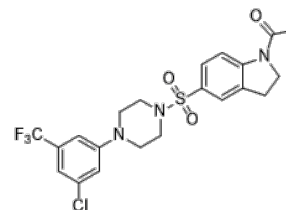


Product Name : JH-LPH-33
Cat. No. : PC-25650
CAS No. : 2414590-04-6
Molecular Formula : C₂₁H₂₁ClF₃N₃O₃S
Molecular Weight : 487.92
Target : Bacterial
Solubility : 10 mM in DMSO



CAS: 2414590-04-6

Biological Activity

JH-LPH-33 is a highly potent UDP-2,3-diacylglucosamine pyrophosphate hydrolase LpxH inhibitor with IC₅₀ of 26 nM and 46 nM for K. pneumoniae LpxH and E. coli LpxH respectively, shows antibiotic activity with MIC of 1.6 ug/mL for wild-type K. pneumoniae (ATCC 10031) in cell culture.

JH-LPH-33 inhibits LpxH more potently than AZ1 (Cat#PC-25649).

References

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. Lab Use Only!

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