
Product Data Sheet

Product Name: LpxH-IN-AZ1

Cat. No.: GC69401

Chemical Properties

Cas. No. 901260-40-0

Formula C₂₁H₂₂F₃N₃O₃S

M.Wt 453.48

Solubility DMSO : 25 mg/mL (55.13 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**

LpxH-IN-AZ1, a sulfonyl piperazine compound, is a potent UDP-2,3-diacylglucosamine pyrophosphate drolase **LpxH** inhibitor. LpxH-IN-AZ1 is a potent inhibitor of *Klebsiella pneumoniae* LpxH with IC₅₀ of 0.36 μM [1].

LpxH-IN-AZ1 displays IC₅₀ values of 0.36 μM against *K. pneumoniae* LpxH and 0.14 μM against *E. coli* LpxH, respectively [1].

LpxH-IN-AZ1 (1 μM) inhibits 75% of the activity of *K. pneumoniae* LpxH and 83% of the activity of *E. coli* LpxH in the presence of 100 μM UDPDAGn [1].

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