LpxH-IN-AZ1

Cat. No.:	HY-130836				
CAS No.:	901260-40-0				
Molecular Formula:	$C_{21}H_{22}F_{3}N_{3}O_{3}S$				
Molecular Weight:	453.48				
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

	Solvent Mass Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.2052 mL	11.0258 mL	22.0517 m
	5 mM	0.4410 mL	2.2052 mL	4.4103 mL
	10 mM	0.2205 mL	1.1026 mL	2.2052 mL

BIOLOGICAL ACTIV	
Description	LpxH-IN-AZ1, a sulfonyl piperazine compound, is a potent UDP-2,3-diacylglucosamine pyrophosphate hydrolase LpxH inhibitor. LpxH-IN-AZ1 is a potent inhibitor of Klebsiella pneumoniae LpxH with IC ₅₀ of 0.36 μM ^[1] .
In Vitro	LpxH-IN-AZ1 displays IC ₅₀ 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] . 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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