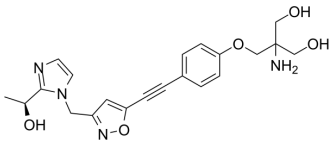
LpxC-IN-5

Cat. No.:	HY-131907
CAS No.:	2253951-38-9
Molecular Formula:	$C_{21}H_{24}N_4O_5$
Molecular Weight:	412.44
Target:	Bacterial
Pathway:	Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	LpxC-IN-5 is a potent non-hydroxamate LpxC (UDP-3-O-acyl-N-acetylglucosamine deacetylase) inhibitor with an IC_{50} of 20 nM. LpxC-IN-5 shows antibacterial activity against E. coli ATCC25922, P. aeruginosa ATCC27853, K. pneumoniae ATCC13883 and P. aeruginosa 5567 with MIC of 16, 4, 64, and 4 μg/mL, respectively[1].
In Vitro	LpxC is a zinc metalloenzyme that catalyzes the first committed step in the biosynthesis of Lipid A, an essential component of the cell envelope of Gram-negative bacteria[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Yamada Y, et al. Fragment-Based Discovery of Novel Non-Hydroxamate LpxC Inhibitors with Antibacterial Activity [published online ahead of print, 2020 Nov 19]. J Med Chem. 2020;10.1021/acs.jmedchem.0c01215.

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