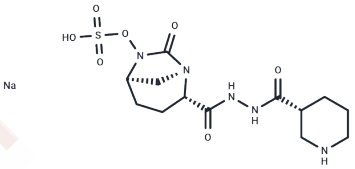
Data Sheet (Cat.No.T13395)

TargetMol

Zidebactam sodium salt

Chemical Properties



CAS No. : 1706777-46-9

Formula: C13H21N5NaO7S

Molecular Weight: 414.39

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Zidebactam sodium salt is a potent inhibitor of β-lactamase, and also is an inhibitor of penicillin-binding protein2 (PBP2)(IC50 of 0.26 μg/mL).
Targets(IC50)	Others,Antibacterial
In vitro	Zidebactam sodium salt inhibits WT Enterobacteriaceae with MIC50 of 0.25?mg/L[1]. Zidebactam sodium salt alone exhibits variable activity when tested against E. coli (MIC50/90 0.12/0.12 ?mg/L) and Enterobacter spp with MIC50/90 of 0.12/0.25? mg/L[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4132 mL	12.0659 mL	24.1319 mL
5 mM	0.4826 mL	2.4132 mL	4.8264 mL
10 mM	0.2413 mL	1.2066 mL	2.4132 mL
50 mM	0.0483 mL	0.2413 mL	0.4826 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Sader HS, et al. WCK 5222 (cefepime/zidebactam) antimicrobial activity tested against Gram-negative organisms producing clinically relevant β-lactamases. J Antimicrob Chemother. 2017 Jun 1;72(6):1696-1703.

Moya B, et al. WCK 5107 (Zidebactam) and WCK 5153 Are Novel Inhibitors of PBP2 Showing Potent "β-Lactam Enhancer" Activity against Pseudomonas aeruginosa, Including Multidrug-Resistant Metallo-β-Lactamase-Producing High-Risk Clones. Antimicrob Agents Chemother. 2017 May 24;61(6).

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