

Zidebactam sodium salt

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 1706777-46-9 |
| Formula: | C ₁₃ H ₂₁ N ₅ NaO ₇ S |
| 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

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|----------------------------|--|
| Description | Zidebactam sodium salt is a potent inhibitor of β -lactamase, and also is an inhibitor of penicillin-binding protein2 (PBP2)(IC ₅₀ of 0.26 μ g/mL). |
| Targets(IC ₅₀) | Others,Antibacterial |
| In vitro | Zidebactam sodium salt inhibits WT Enterobacteriaceae with MIC ₅₀ of 0.25?mg/L[1]. Zidebactam sodium salt alone exhibits variable activity when tested against E. coli (MIC ₅₀ /90 0.12/0.12 ?mg/L) and Enterobacter spp with MIC ₅₀ /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).

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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