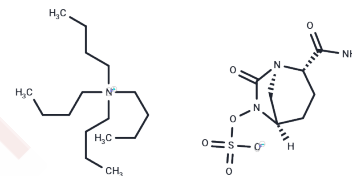


Avibactam Tetrabutylammonium

Chemical Properties

CAS No. :	1192651-80-1
Formula:	C ₂₃ H ₄₆ N ₄ O ₆ S
Molecular Weight:	506.7
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Avibactam Tetrabutylammonium is the salt form of Avibactam. Avibactam is a non-β-lactam β-lactamase inhibitor that inhibits TEM-1, P99, and KPC-2 β-lactamases (IC ₅₀ =8/80/38 nM) with covalent and reversible and can be used to treat urinary tract infections.
Targets(IC ₅₀)	Antibacterial
In vitro	Avibactam Tetrabutylammonium, when used in combination with β-lactam antibiotics, significantly enhances antibacterial activity, particularly showing good efficacy against resistant strains [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9736 mL	9.8678 mL	19.7355 mL
5 mM	0.3947 mL	1.9736 mL	3.9471 mL
10 mM	0.1974 mL	0.9868 mL	1.9736 mL
50 mM	0.0395 mL	0.1974 mL	0.3947 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

Huband MD, et al. Determination of MIC Quality Control Ranges for Ceftibuten-Avibactam (Fixed 4 μg/mL), a Novel β-Lactam/β-Lactamase Inhibitor Combination. J Clin Microbiol. 2023 Jul 20;61(7):e0165722.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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