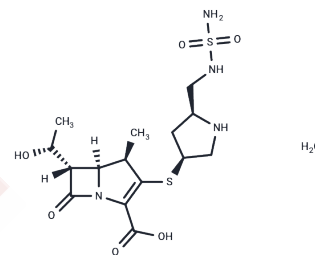


Doripenem hydrate

Chemical Properties

CAS No. :	1820954-21-9
Formula:	C ₁₅ H ₂₄ N ₄ O ₆ S ₂ ?XH ₂ O
Molecular Weight:	420.51
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	Doripenem is a broad-spectrum carbapenem antibiotic effective against both Gram-negative and Gram-positive bacteria, such as <i>S. aureus</i> , <i>S. pneumoniae</i> , <i>E. coli</i> , and <i>K. pneumoniae</i> , with minimum inhibitory concentrations (MICs) ranging from less than 0.015 to 0.3 µg/ml. It has been proven to reduce the viable bacteria count in mouse lung models of chronic <i>P. aeruginosa</i> respiratory tract infection at a dosage of 100 mg/kg per day. Doripenem operates by inhibiting bacterial cell wall synthesis through the formation of stable acyl-enzyme complexes with penicillin-binding proteins, leading to their inactivation. This compound has been utilized in various formulations for the treatment of bacterial infections.
Targets(IC50)	Others

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3781 mL	11.8903 mL	23.7806 mL
5 mM	0.4756 mL	2.3781 mL	4.7561 mL
10 mM	0.2378 mL	1.189 mL	2.3781 mL
50 mM	0.0476 mL	0.2378 mL	0.4756 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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