

Antibacterial agent 144

Chemical Properties

CAS No. :

Formula: C₂₆H₂₃N₇O₃

Molecular Weight: 481.51

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	Antibacterial Agent 144 (compound 8e) exhibits superior efficacy against multi-resistant Staphylococcus aureus compared to Chloromycin and Amoxicillin. It acts by disrupting the bacterial cytoplasmic membrane and inhibiting biofilm formation. Additionally, it binds to human serum albumin (HSA) with a dissociation constant (K _d) of 13.2 μM, enhancing its bactericidal activity. This compound also forms a supramolecular complex with DNA, thereby hindering DNA replication [1].
Targets(IC50)	Others,Antibacterial,DNA/RNA Synthesis

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0768 mL	10.384 mL	20.768 mL
5 mM	0.4154 mL	2.0768 mL	4.1536 mL
10 mM	0.2077 mL	1.0384 mL	2.0768 mL
50 mM	0.0415 mL	0.2077 mL	0.4154 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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