

DNA Gyrase-IN-9

Chemical Properties

CAS No. :

Formula: C₂₆H₁₈ClN₃O₂

Molecular Weight: 439.89

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	DNA Gyrase-IN-9 (compound 4j), an antibacterial agent, selectively targets DNA gyrase and exhibits a minimum inhibitory concentration (MIC) of 0.5-2 µg/mL for Gram-positive bacteria inhibition and a minimum bactericidal concentration (MBC) of 2-8 µg/mL for Gram-positive bacteria eradication. Notably, this compound hinders DNA gyrase activity in Staphylococcus aureus with an IC ₅₀ of 6.29 µg/mL [1].
Targets(IC50)	Antibacterial,DNA/RNA Synthesis

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2733 mL	11.3665 mL	22.733 mL
5 mM	0.4547 mL	2.2733 mL	4.5466 mL
10 mM	0.2273 mL	1.1366 mL	2.2733 mL
50 mM	0.0455 mL	0.2273 mL	0.4547 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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