

## DNA Gyrase-IN-6

## Chemical Properties

CAS No. :

Formula: C<sub>18</sub>H<sub>16</sub>Cl<sub>2</sub>N<sub>4</sub>O<sub>4</sub>S

Molecular Weight: 455.32

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 138, a benzothiazole inhibitor, targets bacterial DNA gyrase and topoisomerase IV, exhibiting both favorable solubility and plasma protein binding. It demonstrates antibacterial activity against Gram-positive and Gram-negative strains and functions as a dual GyrB and ParE inhibitor [1]. |
| Targets(IC50) | Others,Antibacterial,DNA/RNA Synthesis,Topoisomerase  |

## Preparing Stock Solutions

|       | 1mg       | 5mg        | 10mg       |
|-------|-----------|------------|------------|
| 1 mM  | 2.1963 mL | 10.9813 mL | 21.9626 mL |
| 5 mM  | 0.4393 mL | 2.1963 mL  | 4.3925 mL  |
| 10 mM | 0.2196 mL | 1.0981 mL  | 2.1963 mL  |
| 50 mM | 0.0439 mL | 0.2196 mL  | 0.4393 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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