

DNA Gyrase/DHFR-IN-1

Chemical Properties

CAS No. :

Formula: C₂₅H₂₀N₄O

Molecular Weight: 392.45

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/DHFR-IN-1 is a dual inhibitor targeting bacterial DNA gyrase and DHFR, with IC ₅₀ values of 182 μ M and 3.90 μ M against E. coli DNA gyrase and DHFR, respectively. This compound exhibits both bactericidal and antifungal activities. |
| Targets(IC ₅₀) | Antibacterial, Antifungal, DHFR |
| In vitro | DNA Gyrase/DHFR-IN-1 exhibits MIC values of 16 nM (Bacillus subtilis), 24 nM (Staphylococcus aureus), 51 nM (Escherichia coli), 53 nM (Pseudomonas aeruginosa), 15.50 μ M (Aspergillus flavus), and 19.50 μ M (Candida albicans). |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|-----------|
| 1 mM | 2.5481 mL | 12.7405 mL | 25.481 mL |
| 5 mM | 0.5096 mL | 2.5481 mL | 5.0962 mL |
| 10 mM | 0.2548 mL | 1.274 mL | 2.5481 mL |
| 50 mM | 0.051 mL | 0.2548 mL | 0.5096 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

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel: 781-999-4286 E_mail: info@targetmol.com Address: 34 Washington Street, Wellesley Hills, MA 02481