

NBTI 5463

## Chemical Properties

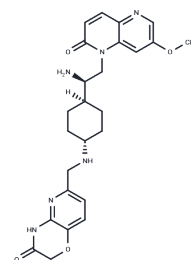
CAS No. : 1227303-03-8

Formula: C<sub>25</sub>H<sub>30</sub>N<sub>6</sub>O<sub>4</sub>

Molecular Weight: 478.54

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	NBTI 5463 is a bacterial type II topoisomerase (topoisomerase II) inhibitor with antimicrobial properties. It effectively inhibits GyrA and TopoIV in Pseudomonas aeruginosa and Escherichia coli. By binding to topoisomerase II, NBTI 5463 prevents DNA cleavage and re-ligation, thereby impeding bacterial DNA replication and transcription. This compound shows potential for research into Gram-negative bacterial infections.
Targets(IC50)	Antibacterial, Topoisomerase

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0897 mL	10.4484 mL	20.8969 mL
5 mM	0.4179 mL	2.0897 mL	4.1794 mL
10 mM	0.209 mL	1.0448 mL	2.0897 mL
50 mM	0.0418 mL	0.209 mL	0.4179 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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