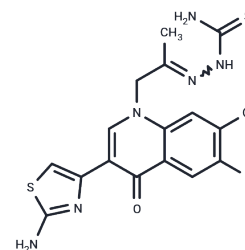


## Antibacterial agent 229

## Chemical Properties

CAS No. :	3049500-54-8
Formula:	C <sub>16</sub> H <sub>14</sub> ClFN <sub>6</sub> O <sub>2</sub>
Molecular Weight:	424.90
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 229 (compound 8a) is a potent antimicrobial agent with antibacterial and antifungal properties. It disrupts bacterial membrane integrity and inserts into DNA. Additionally, Antibacterial agent 229 inhibits topoisomerase IV (topoisomerase IV) activity, exhibiting an IC <sub>50</sub> value of 10.88 μM.
Targets(IC <sub>50</sub> )	Antibacterial, Antifungal, Topoisomerase
In vitro	Antibacterial agent 229 (compound 8a) exhibits antibacterial and antifungal properties, showing MIC values of 0.0377, 0.0047, 0.0189, 0.0189, 0.0189, and 0.0047 mM against <i>S. aureus</i> ATCC 25923, <i>S. aureus</i> ATCC 29213, <i>E. coli</i> ATCC 25922, <i>P. aeruginosa</i> ATCC 27853, <i>C. albicans</i> ATCC 9002, <i>C. albicans</i> , and <i>C. parapsilosis</i> ATCC 22019, respectively.

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3535 mL	11.7675 mL	23.5349 mL
5 mM	0.4707 mL	2.3535 mL	4.707 mL
10 mM	0.2353 mL	1.1767 mL	2.3535 mL
50 mM	0.0471 mL	0.2353 mL	0.4707 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

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