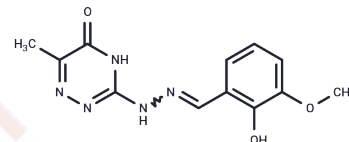


## Antibacterial agent 227

## Chemical Properties

CAS No. :	301304-67-6
Formula:	C <sub>12</sub> H <sub>13</sub> N <sub>5</sub> O <sub>3</sub>
Molecular Weight:	275.26
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 227 (Compd 29) acts as an inhibitor for ThrRS (Seryl-tRNA synthetase), efficiently suppressing the growth of both planktonic and biofilm-cultured <i>Staphylococcus aureus</i> ( <i>Staphylococcus aureus</i> 25923). The minimum inhibitory concentration (MIC) for this compound is identified at 32 µg/ml. Due to its efficacy, Antibacterial agent 227 is a promising preservative against multi-drug resistant biofilms formed by <i>Staphylococcus aureus</i> strains.
In vitro	Antibacterial agent 227 exhibits significant inhibitory effects on the planktonic cultures of <i>S. aureus</i> 25923 at concentrations ranging from 0-32 µg/ml. However, it does not demonstrate antimicrobial activity against the Gram-negative bacterium <i>E. coli</i> .

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.6329 mL	18.1646 mL	36.3293 mL
5 mM	0.7266 mL	3.6329 mL	7.2659 mL
10 mM	0.3633 mL	1.8165 mL	3.6329 mL
50 mM	0.0727 mL	0.3633 mL	0.7266 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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