

CAY10711

## Chemical Properties

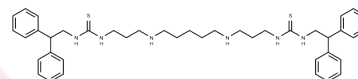
CAS No. : 1666171-29-4

Formula: C<sub>41</sub>H<sub>54</sub>N<sub>6</sub>S<sub>2</sub>

Molecular Weight: 695.04

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	CAY10711 is a substituted diamine that produces rapid bactericidal activity against both Gram-positive and Gram-negative bacteria, including methicillin-resistant <i>S. aureus</i> (MRSA) and stationary-phase bacteria. It displays MIC <sub>99</sub> values of 2.9, 11.5, 2.9, and 2.9 $\mu$ M against <i>S. aureus</i> RN4220, <i>P. aeruginosa</i> PAO1, <i>E. coli</i> ANS1, and MRSA 10082B, respectively. CAY10711 reduces biofilm formation and promotes biofilm dispersal in <i>P. aeruginosa</i> . It is synergistic with kanamycin and has limited adverse effects against mammalian cells or <i>C. elegans</i> development, survival, or reproduction.
Targets(IC50)	Others,Antibacterial

## Solubility Information

Solubility	DMF: 20 mg/mL (28.78 mM),Sonication is recommended. Ethanol:PBS (pH7.2)(1:20): 0.04 mg/mL (0.06 mM),Sonication is recommended. Ethanol: 30 mg/mL (43.16 mM),Sonication is recommended. DMSO: 30 mg/mL (43.16 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.4388 mL	7.1938 mL	14.3877 mL
5 mM	0.2878 mL	1.4388 mL	2.8775 mL
10 mM	0.1439 mL	0.7194 mL	1.4388 mL
50 mM	0.0288 mL	0.1439 mL	0.2878 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.

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