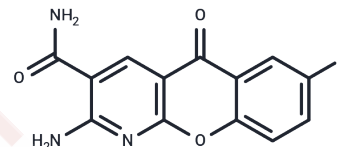


DNA ligase-IN-2

Chemical Properties

CAS No. :	635681-64-0
Formula:	C ₁₃ H ₈ FN ₃ O ₃
Molecular Weight:	273.219
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 ligase-IN-2 (compound 2) acts as a potent LigA inhibitor, effectively hindering the DNA-independent spontaneous adenylation activity of full-length LigA and the truncated enzyme LigA:AD with an IC ₅₀ of 29 nM. It also significantly suppresses the in vitro growth of Staphylococcus aureus, showing MIC values of 1 µg/mL for S. aureus ATCC 29213 and S. aureus ATCC 700699, while the MIC for Escherichia coli (E. coli) ATCC 25922 is >64 µg/mL.
Targets(IC ₅₀)	Antibacterial, DNA/RNA Synthesis

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.6601 mL	18.3003 mL	36.6005 mL
5 mM	0.732 mL	3.6601 mL	7.3201 mL
10 mM	0.366 mL	1.830 mL	3.6601 mL
50 mM	0.0732 mL	0.366 mL	0.732 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