

## CTP Synthetase-IN-1 Ammonium salt

### Chemical Properties

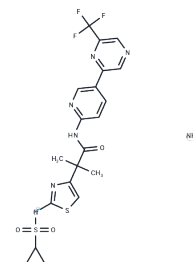
CAS No. :

Formula: C<sub>20</sub>H<sub>22</sub>F<sub>3</sub>N<sub>7</sub>O<sub>3</sub>S<sub>2</sub>

Molecular Weight: 529.56

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	CTP Synthetase-IN-1 Ammonium salt is an orally active and potent cytidine 5'-triphosphate synthetase (CTPS) inhibitor with potential antimicrobial, anti-inflammatory and antitumor activity for the study of SARS-CoV-2 viral infections.
Targets(IC50)	Others,DNA/RNA Synthesis
In vivo	In the mouse collagen-induced arthritis (CIA) model, CTP Synthetase-IN-1 Ammonium salt (10 mg/kg and 50 mg/kg; oral administration, twice daily, for 18 days) was able to improve specific indicators of disease severity[1].

### Solubility Information

Solubility	DMSO: 80 mg/mL (151.07 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	1.8884 mL	9.4418 mL	18.8836 mL
5 mM	0.3777 mL	1.8884 mL	3.7767 mL
10 mM	0.1888 mL	0.9442 mL	1.8884 mL
50 mM	0.0378 mL	0.1888 mL	0.3777 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.

Reference

Andrew Novak, et al. Discovery and Optimization of Potent and Orally Available CTP Synthetase Inhibitors for Use in Treatment of Diseases Driven by Aberrant Immune Cell Proliferation. J Med Chem. 2022 Dec 22;65(24):16640-16650.

**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