

## CTPS1-IN-1

## Chemical Properties

CAS No. : 2341943-12-0

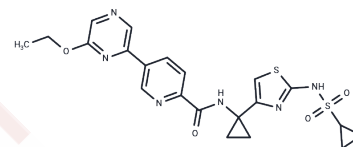
Formula: C<sub>21</sub>H<sub>22</sub>N<sub>6</sub>O<sub>4</sub>S<sub>2</sub>

Molecular Weight: 486.57

Store at low temperature

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	CTPS1-IN-1 is a cytidine-5' triphosphate synthase 1 (CTPS1) inhibitor with potential antitumor activity and can be used to study autoimmune diseases.
Targets(IC50)	Others,DNA/RNA Synthesis

## Solubility Information

Solubility	DMSO: 40 mg/mL (82.21 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (4.11 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0552 mL	10.276 mL	20.552 mL
5 mM	0.411 mL	2.0552 mL	4.1104 mL
10 mM	0.2055 mL	1.0276 mL	2.0552 mL
50 mM	0.0411 mL	0.2055 mL	0.411 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. Preparation of substituted sulfonamidothiazoles as CTRS1 inhibitors. Patent WO2019106146A1.

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