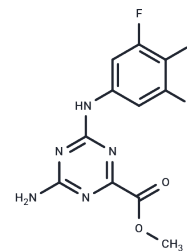


CU-76

## Chemical Properties

CAS No. : 2400954-58-5  
 Formula: C<sub>11</sub>H<sub>8</sub>F<sub>2</sub>IN<sub>5</sub>O<sub>2</sub>  
 Molecular Weight: 407.11  
 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	CU-76 is an inhibitor of cyclic GMP-AMP synthase (cGAS; IC <sub>50</sub> = 0.24 μM). It reduces DNA-, but not Sendai virus-, induced dimerization of IFN regulatory factor 3 in THP-1 cells, indicating selectivity for the cGAS DNA sensing pathway over the RIG-I-MAVS RNA sensing pathway. CU-76 decreases IFN-stimulatory DNA-induced production of IFN-β in THP-1 cells when used at concentrations of 10, 30, and 100 μM.
Targets(IC <sub>50</sub> )	Others, cGAS

## Solubility Information

Solubility	DMSO:PBS (pH 7.2) (1:5): 0.1 mg/mL (0.25 mM), Sonication is recommended. DMSO: 30 mg/mL (73.69 mM), Sonication is recommended. DMF: 30 mg/mL (73.69 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	2.4563 mL	12.2817 mL	24.5634 mL
5 mM	0.4913 mL	2.4563 mL	4.9127 mL
10 mM	0.2456 mL	1.2282 mL	2.4563 mL
50 mM	0.0491 mL	0.2456 mL	0.4913 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

Padilla-Salinas, R., Sun, L., Anderson, R., et al. Discovery of small-molecule cyclic GMP-AMP synthase inhibitors. *J. Org. Chem.* 85(3)1579-1600(2020)

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