

NT-0249

## Chemical Properties

CAS No. : 2763617-39-4

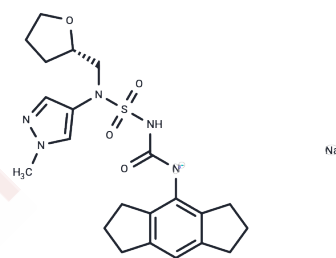
Formula: C<sub>22</sub>H<sub>28</sub>N<sub>5</sub>NaO<sub>4</sub>S

Molecular Weight: 481.54

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	NT-0249 is an orally active inhibitor of the inflammatory vesicle NLRP3 with anti-inflammatory activity that reverses high-fat diet-induced obesity, systemic inflammation, and astrocyte hyperplasia.
Targets(IC50)	NOD-like Receptor (NLR),NOD
In vivo	Two structurally distinct NLRP3 inhibitors, NT-0249 and NT-0796, were able to reverse obesity in a mouse model of diet-induced obesity (DIO), and DIO-driven hypothalamic glial fibrillary acidic protein (GFAP) expression could be blocked by administration of NT-0249 or NT-0796. [1]

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0767 mL	10.3834 mL	20.7667 mL
5 mM	0.4153 mL	2.0767 mL	4.1533 mL
10 mM	0.2077 mL	1.0383 mL	2.0767 mL
50 mM	0.0415 mL	0.2077 mL	0.4153 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

Thornton P, et al. Reversal of High Fat Diet-Induced Obesity, Systemic Inflammation, and Astroglialosis by the NLRP3 Inflammasome Inhibitors NT-0249 and NT-0796. J Pharmacol Exp Ther. 2024 Feb 15;388(3):813-826.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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