

NDT-19795

## Chemical Properties

CAS No. : 2272917-12-9

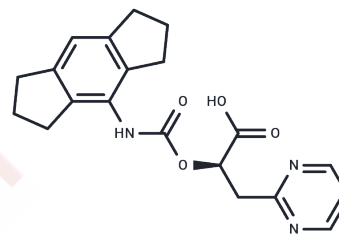
Formula: C<sub>20</sub>H<sub>21</sub>N<sub>3</sub>O<sub>4</sub>

Molecular Weight: 367.4

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	NDT-19795 is an effective small-molecule inhibitor of the NLRP3 inflammasome with IC <sub>50</sub> values of 66 nM in PBMC-based assays and 4.7 μM in western blot analyses, functioning as a carboxylic acid-active metabolite derived intracellularly from NT-0796, and supporting research into neuroinflammation and neurological disease mechanisms.
Targets(IC <sub>50</sub> )	NOD
In vivo	<b>Method:</b> NDT-19795 was administered intravenously at 3 mg/kg as a single dose in C57BL/6 mice. <b>Result:</b> NDT-19795 showed a low brain-to-blood ratio of 0.07, indicating limited BBB penetration[1].

## Solubility Information

Solubility	DMSO: 80.00 mg/mL (217.75 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	2.7218 mL	13.6091 mL	27.2183 mL
5 mM	0.5444 mL	2.7218 mL	5.4437 mL
10 mM	0.2722 mL	1.3609 mL	2.7218 mL
50 mM	0.0544 mL	0.2722 mL	0.5444 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

Harrison D, et al. Discovery of Clinical Candidate NT-0796, a Brain-Penetrant and Highly Potent NLRP3 Inflammasome Inhibitor for Neuroinflammatory Disorders. J Med Chem. 2023;66(21):14897-14911.

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

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