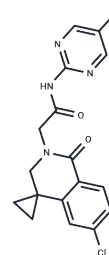


NT-0527

## Chemical Properties

CAS No. : 2771019-10-2  
 Formula: C<sub>17</sub>H<sub>14</sub>ClFN<sub>4</sub>O<sub>2</sub>  
 Molecular Weight: 360.77  
 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-0527 is a selective, orally active, and brain-permeable NLRP3 inflammasome inhibitor that inhibits NLRP3-induced IL-1 $\beta$ in human whole blood (IC <sub>50</sub> = 0.79 $\pm$ 0.4 $\mu$ M), and can be used for the study of neuroinflammatory diseases.
Targets(IC <sub>50</sub> )	NOD,IL Receptor
In vitro	In human whole blood stimulated with LPS and ATP, NT-0527 inhibited NLRP3-induced IL-1 $\beta$ with an IC <sub>50</sub> of 0.79 $\pm$ 0.4 $\mu$ M, while having no effect on IL-6 and TNF- $\alpha$ release at concentrations up to 40 $\mu$ M. [1]

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7718 mL	13.8592 mL	27.7185 mL
5 mM	0.5544 mL	2.7718 mL	5.5437 mL
10 mM	0.2772 mL	1.3859 mL	2.7718 mL
50 mM	0.0554 mL	0.2772 mL	0.5544 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. Profile of NT-0527, a brain penetrant NLRP3 Inflammasome inhibitor suitable as an in vivo tool compound for neuroinflammatory disorders. RSC Med Chem. Published online September 4, 2025.

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