

MNI-caged-L-glutamate TFA

Chemical Properties

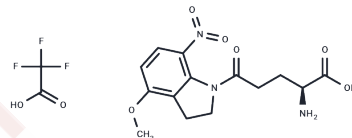
CAS No. : 2226362-29-2

Formula: C₁₄H₁₇N₃O₆·CF₃COOH

Molecular Weight: 437.32

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 | MNI-caged-L-glutamate, a derivative of glutamate conjugated with a 4-methoxy-7-nitroindolinyl (MNI) photoprotective group, remains pharmacologically inactive at neuronal glutamate receptors at concentrations up to mM. Upon light exposure (300 - 380 nm excitation), it rapidly releases L-glutamate by cleaving the MNI group within submicroseconds. This characteristic enables the investigation of fast synaptic glutamate receptor mechanisms in situ. |
| Targets(IC50) | Others |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 2.2867 mL | 11.4333 mL | 22.8666 mL |
| 5 mM | 0.4573 mL | 2.2867 mL | 4.5733 mL |
| 10 mM | 0.2287 mL | 1.1433 mL | 2.2867 mL |
| 50 mM | 0.0457 mL | 0.2287 mL | 0.4573 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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