

MNI-caged-L-glutamate TFA

Chemical Properties

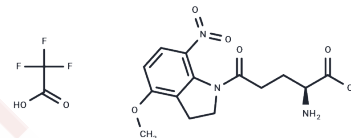
CAS No. : 2226362-29-2

Formula: C₁₄H₁₇N₃O₆CF₃COOH

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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