

STEP-IN-1

Chemical Properties

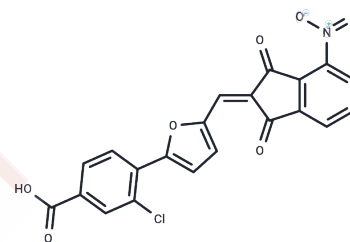
CAS No. :

Formula: C₂₁H₁₀ClNO₇

Molecular Weight: 423.76

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	STEP-IN-1 (Compound 14b) is a potent and selective inhibitor of STEP, with an IC ₅₀ of 5.27 μM. It offers neuroprotective effects by safeguarding neuronal cells from glutamate-induced toxicity, reducing intracellular reactive oxygen species (ROS) accumulation, and inhibiting apoptosis. STEP-IN-1 is applicable in research related to neurodegenerative diseases.
Targets(IC50)	Apoptosis, Reactive Oxygen Species, ROS

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3598 mL	11.7991 mL	23.5983 mL
5 mM	0.472 mL	2.3598 mL	4.7197 mL
10 mM	0.236 mL	1.1799 mL	2.3598 mL
50 mM	0.0472 mL	0.236 mL	0.472 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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