

HFI-419

Chemical Properties

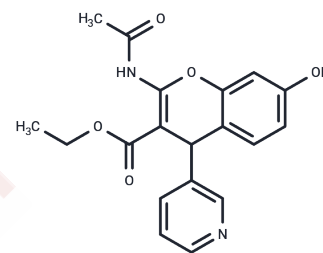
CAS No. : 1110650-72-0

Formula: C₁₉H₁₈N₂O₅

Molecular Weight: 354.36

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	HFI-419 is a potent inhibitor of insulin-regulated aminopeptidase (IRAP) with a K _i value of 0.48 μM. It is utilized in research pertaining to cognitive and memory impairments, including Alzheimer's disease, brain trauma, and stroke [1].
Targets(IC50)	Others
In vitro	HFI-419 effectively inhibits the Insulin-Regulated Aminopeptidase (IRAP) with a K _i value of 0.48 μM [1]. At a concentration of 1 μM, HFI-419 demonstrates a rapid decrease in presence, attributed to nonenzymatic processes, including amide hydrolysis [1].
In vivo	HFI-419, administered intravenously (i.v) and intraperitoneally (i.p) at doses of 2 mg/kg and 10 mg/kg, demonstrates significant brain exposure and potent inhibition of IRAP [1]. Utilized in a Sprague-Dawley rat model [1], the compound was noted for its brief apparent elimination half-life, high plasma clearance, and extensive volume of distribution, while effectively extending the apparent half-life to 4.6 hours.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.822 mL	14.1099 mL	28.2199 mL
5 mM	0.5644 mL	2.822 mL	5.644 mL
10 mM	0.2822 mL	1.411 mL	2.822 mL
50 mM	0.0564 mL	0.2822 mL	0.5644 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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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481