

CDD0102 HCl

Chemical Properties

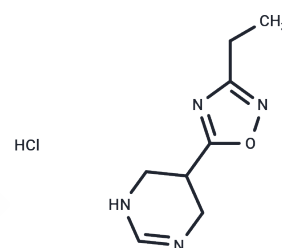
CAS No. : 1196130-86-5

Formula: C₈H₁₃ClN₄O

Molecular Weight: 216.67

Storage: Store at low temperature
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	CDD0102 HCl is a selective and potent M1 muscarinic receptor agonist for the treatment of Alzheimer's disease.
Targets(IC50)	AChR
In vitro	In cell lines expressing M1 receptors, CDD0102 (CDD-0102) is an efficacious muscarinic agonist. CDD0102 exhibits much lower activity at M3 and M5 receptors[1].
In vivo	Following i.p. injections, CDD0102 (CDD-0102) crosses the blood-brain barrier (BBB) in a dose-dependent manner. The LD50 of CDD0102 is 190 mg/kg in toxicological studies after i.p. injections and greater than 1,000 mg/kg following oral administration. In follow-up studies, CDD0102 fully reverses memory deficits associated with IgG-192 saporin administration after oral administration at a dose of 10 mg/kg. No side effects are observed at this dose[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.6153 mL	23.0766 mL	46.1531 mL
5 mM	0.9231 mL	4.6153 mL	9.2306 mL
10 mM	0.4615 mL	2.3077 mL	4.6153 mL
50 mM	0.0923 mL	0.4615 mL	0.9231 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

Messer WS Jr. The utility of muscarinic agonists in the treatment of Alzheimer's disease. J Mol Neurosci. 2002 Aug-Oct;19(1-2):187-93.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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