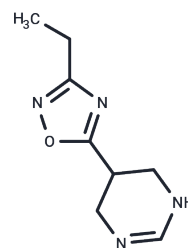


CDD0102

Chemical Properties

CAS No. : 146422-58-4
 Formula: C₈H₁₂N₄O
 Molecular Weight: 180.21
 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	CDD0102 is a potent agonist of M1 Muscarinic receptor.
Targets(IC50)	AChR
In vitro	CDD0102 displays much lower activity at M3 and M5 receptors.
In vivo	CDD0102 (i.p.) crosses the blood-brain barrier (BBB) in a dose-dependent manner. In toxicological studies, the LD50 of CDD0102 is 190 mg/kg following i.p. injections and greater than 1,000 mg/kg following oral administration. CDD0102 (10 mg/kg) fully reverses memory deficits associated with IgG-192 saporin administration. Again, no side effects are observed at this dose.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.5491 mL	27.7454 mL	55.4908 mL
5 mM	1.1098 mL	5.5491 mL	11.0982 mL
10 mM	0.5549 mL	2.7745 mL	5.5491 mL
50 mM	0.111 mL	0.5549 mL	1.1098 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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