

Muscarinic M4 modulator-1

Chemical Properties

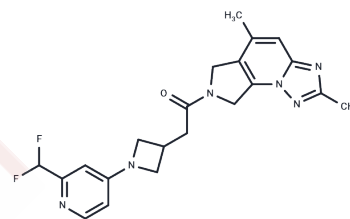
CAS No. : 3082186-91-9

Formula: C₂₁H₂₂F₂N₆O

Molecular Weight: 412.44

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	Muscarinic M4 modulator-1 is a positive allosteric modulator of the Muscarinic M4 receptor. It activates the muscarinic M4 receptor with allosteric efficacy (EC ₅₀) values of 14 nM in CHO-K1 cells and 3 nM in HEK293 cells. Muscarinic M4 modulator-1 exhibits antipsychotic-like activity and shows potential for research in psychiatric and/or neurological disorders.
Targets(IC ₅₀)	AChR
In vitro	Muscarinic M4 modulator-1 (Example 4) exhibits allosteric efficacy on muscarinic M4 receptors with an EC ₅₀ of 14 nM in CHO-K1 cells and 3 nM in HEK293 cells (0.2-4 hours).
In vivo	Muscarinic M4 modulator-1 (Example 4), administered once via intraperitoneal injection at doses of 10 and 30 mg/kg in a rat model, showed receptor occupancy rates of 33.9% and 66.7%, respectively.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4246 mL	12.123 mL	24.246 mL
5 mM	0.4849 mL	2.4246 mL	4.8492 mL
10 mM	0.2425 mL	1.2123 mL	2.4246 mL
50 mM	0.0485 mL	0.2425 mL	0.4849 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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