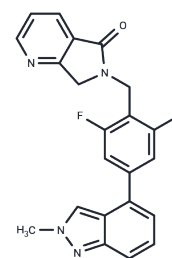


VU0467319

Chemical Properties

CAS No. : 1432438-14-6
 Formula: C₂₂H₁₆F₂N₄O
 Molecular Weight: 390.385
 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	VU0467319 (Compound VU319) is a highly selective positive allosteric modulator of the M1 receptor, capable of crossing the blood-brain barrier and orally active, with an EC ₅₀ of 492 nM. It demonstrates selectivity in humans and rats (EC ₅₀ > 30 μM) compared to M2-5 receptors. This compound improves cognitive deficits associated with Alzheimer's disease (AD) through central M1 muscarinic receptor activation and does not induce cholinergic adverse effects, highlighting its potential in AD research.
Targets(IC50)	AChR

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5615 mL	12.8077 mL	25.6154 mL
5 mM	0.5123 mL	2.5615 mL	5.1231 mL
10 mM	0.2562 mL	1.2808 mL	2.5615 mL
50 mM	0.0512 mL	0.2562 mL	0.5123 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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