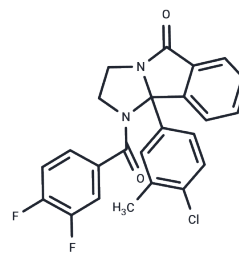


(Rac)-VU 6008667

## Chemical Properties

CAS No. : 2092917-63-8  
 Formula: C<sub>24</sub>H<sub>17</sub>ClF<sub>2</sub>N<sub>2</sub>O<sub>2</sub>  
 Molecular Weight: 438.85  
 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	(Rac)-VU 6008667 is a selective negative allosteric modulator of the muscarinic acetylcholine receptor subtype 5 (M5 NAM), with an IC <sub>50</sub> of 1.8 μM and a pIC <sub>50</sub> of 5.75, exhibiting high CNS penetration.
Targets(IC <sub>50</sub> )	AChR

## Solubility Information

Solubility	DMSO: 20 mg/mL (45.57 mM), Sonication is recommended. H <sub>2</sub> O: 0.1 mg/mL (0.23 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2787 mL	11.3934 mL	22.7868 mL
5 mM	0.4557 mL	2.2787 mL	4.5574 mL
10 mM	0.2279 mL	1.1393 mL	2.2787 mL
50 mM	0.0456 mL	0.2279 mL	0.4557 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

McGowan KM, et al. Continued optimization of the M5 NAM ML375: Discovery of VU6008667, an M5 NAM with high CNS penetration and a desired short half-life in rat for addiction studies. Bioorg Med Chem Lett. 2017 Mar 15;27(6): 1356-1359.

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481