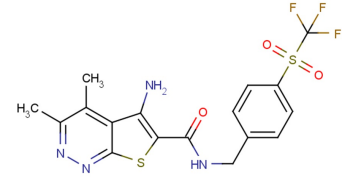


## Data Sheet (Cat.No.T17244)

VU0467154

### Chemical Properties

CAS No.:	1451993-15-9
Formula:	C17H15F3N4O3S2
Molecular Weight:	444.45
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



### Biological Description

Description	VU0467154 is a positive allosteric modulator of the M4 muscarinic acetylcholine receptor. The response to ACh with pEC50s of 7.75, 6.2, and 6 for a rat, human, and cynomolgus monkey M4 receptor, respectively.
Targets(IC <sub>50</sub> )	Rat M4 receptor: (pEC <sub>50</sub> ) 7.75 Human M4 receptor: 6.2 (pEC <sub>50</sub> ) Cynomolgus monkey M4 receptor: 6 (pEC <sub>50</sub> )
In vitro	VU0467154 does not potentiate the ACh response at the rat and human M1, M2, M3, or M5 [1].
In vivo	VU0467154 alone also enhances the acquisition of both contextual and cue-mediated fear conditioning in wild-type mice. VU0467154 (0.3-30 mg/kg, i.p.) reverses amphetamine- and MK-801-induced hyperlocomotion in wild-type but not M4 KO mice. VU0467154 (1-56.6 mg/kg, p.o. or i.p.) reverses amphetamine-induced hyperlocomotion in rats [1].

### Solubility Information

Solubility	DMSO: 125 mg/mL (281.25 mM) ( < 1 mg/ml refers to the product slightly soluble or insoluble)
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#### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.25 mL	11.25 mL	22.5 mL
5 mM	0.45 mL	2.25 mL	4.5 mL
10 mM	0.225 mL	1.125 mL	2.25 mL
50 mM	0.045 mL	0.225 mL	0.45 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Inhibitors · Natural Compounds · Compound Libraries

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