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**Product Data Sheet**

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Product Name: VU0467485

Cat. No.: GC38957

**Chemical Properties**

Cas. No. 1451994-10-7

SMILES O=C(C1=C(N)C2=C(C)C(C)=NN=C2S1)NCC3=CC=C(OC)C(F)=C3Formula  $C_{17}H_{17}FN_4O_2S$ 

M.Wt 360.41

Solubility DMSO : 20 mg/mL (55.49 mM; ultrasonic and warming and heat to 60°C)

Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

VU0467485 (AZ13713945) is a potent, selective, and orally bioavailable muscarinic acetylcholine receptor 4 (M4) positive allosteric modulator (PAM). VU0467485 (AZ13713945) potentiates activity of ACh at M4 with EC50s of 26.6 nM and 78.8 nM at rat and human M4 receptors, respectively. VU0467485 (AZ13713945) shows selectivity for M4 over human and rat M1/2/3/5. VU0467485 (AZ13713945) displays moderate to high CNS penetration. VU0467485 (AZ13713945) has antipsychotic-like activity[1].

VU0467485 (1-10 mg/kg; p.o.) has antipsychotic-like activity in an amphetamine-induced hyperlocomotion (AHL) rat model[1]. VU0467485 (3 mg/kg; p.o.) treatment displays that the Cmax, AUC0-inf and elimination t1/2 were 1.2 μM, 3.8 μM•h and 4.2 hours, respectively[1]. Animal Model: Sprague Dawley rats (amphetamine-induced hyperlocomotion rat model) [1]

[1]. Wood MR, et al. Discovery of VU0467485/AZ13713945: An M4 PAM Evaluated as a Preclinical Candidate for the Treatment of Schizophrenia. ACS Med Chem Lett. 2016 Dec 16;8(2):233-238.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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