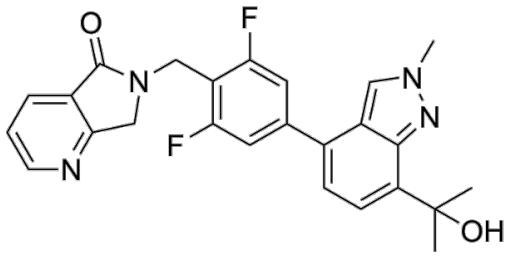
Product Data Sheet

Product Name: VU6052254
Cat. No.: GC79315

Chemical Properties

Cas. No.	3035701-02-8		
Formula	$C_{25}H_{22}F_2N_4O_2$	M.Wt	448.46
Solubility	DMSO: 33.33 mg/mL (74.32 mM; Need ultrasonic)	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

VU6052254, a derivative of VU0467319, is a selective, potent, orally active and brain-penetrant muscarinic M1 acetylcholine receptor (mAChR1) positive allosteric modulator with an EC 50 of 59 nM. VU6052254 has no activity on the M2-5 receptor (EC 50 > 30 μM). VU6052254 can improve memory recognition ability and reverse the cognitive impairment induced by Scopolamine with minimum effective dose both of 1 mg/kg. VU6052254 can be used for the research of neurological

disease, such as Alzheimer's disease [1].

References:

[1]. Engers JL, et al. Discovery of VU6052254: A Novel, Potent M1 Positive Allosteric Modulator. ACS Chem Neurosci. 2025 Dec 17;16(24):4741-4750.