

VU0152100

Catalog No: tcsc1727



Available Sizes

Size: 10mg

Size: 50mg



Specifications

CAS No:

409351-28-6

Formula:

$C_{18}H_{19}N_3O_2S$

Pathway:

Neuronal Signaling;GPCR/G Protein

Target:

mAChR;mAChR

Purity / Grade:

>98%

Solubility:

DMSO : ≥ 50 mg/mL (146.44 mM)

Alternative Names:

VU152100

Observed Molecular Weight:

341.43

Product Description

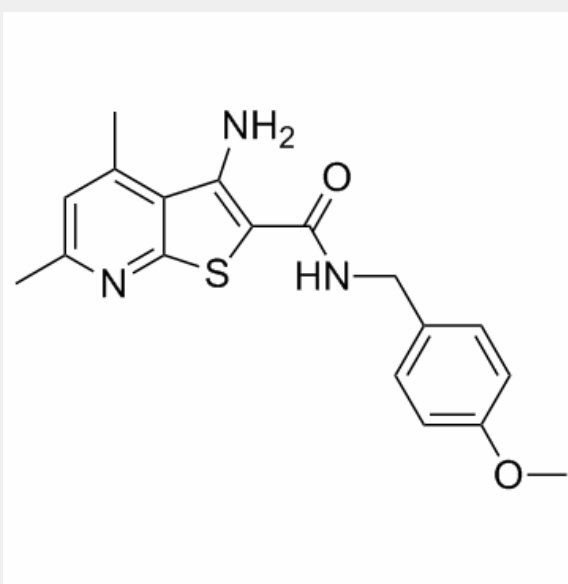
VU0152100 is a potent and selective allosteric potentiator of M4 mAChR with an EC50 of 380 ± 93 nM.

IC50 Value: 380 ± 93 nM (EC50) [1]

Target: M4 mAChR

in vitro: VU0152100 was selective for M4 relative to M1, M2, M3, and M5. VU0152100 dose-dependently potentiated the response to an EC20 concentration of ACh with EC50 values of 1.9 ± 0.2 μ M, and increased the maximal response to ACh to approximately 130%. VU0152100 (10 μ M) also enhanced the potency of ACh to induce GIRK-mediated thallium flux, as manifest by a robust (\approx 30-fold) leftward shift in the ACh CRC from 77 ± 1.2 nM (veh) to 2.35 ± 0.5 nM (VU0152100) [1].

in vivo: Systemic administration of VU0152099 and VU0152100 provides robust brain levels of these compounds, the effects of VU0152099 and VU0152100 were evaluated in reversing amphetamine-induced hyperlocomotion in rats using a dose of 56.6 mg/kg i.p. for each compound with a 30-min pretreatment interval [1].



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