Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

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.

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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 μM, and increased the maximal response to ACh to approximately 130%. VU0152100 (10 μM) also enhanced the potency of ACh to induce GIRK-mediated thallium flux, as manifest by a robust (≈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].