

VU6005649

Catalog No: tcsc0031100



Available Sizes

Size: 1mg

Size: 5mg

Size: 10mg

Size: 25mg

Size: 50mg

Size: 100mg



Specifications

CAS No:

2137047-43-7

Formula:

$C_{16}H_{12}F_5N_3O$

Pathway:

GPCR/G Protein

Target:

mGluR

Purity / Grade:

>98%

Solubility:

10 mM in DMSO

Observed Molecular Weight:

357.28

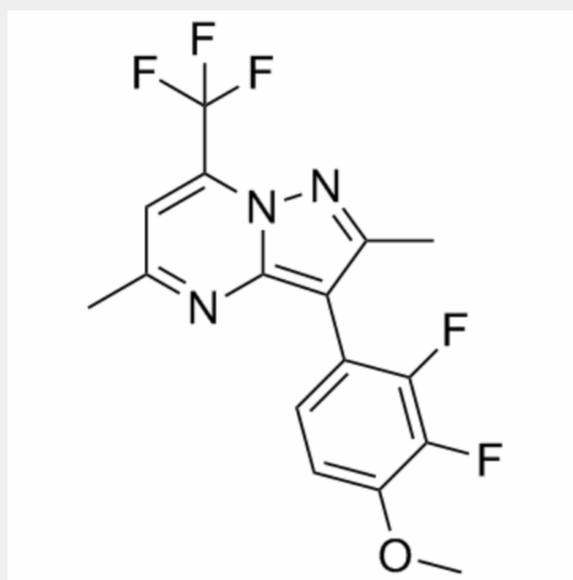
Product Description

VU6005649 is a CNS penetrant **mGlu_{7/8} receptor** agonist with **EC₅₀**s of 0.65 μ M and 2.6 μ M for **mGlu₇ receptor** and **mGlu₈ receptor**, respectively.

IC50 & Target: EC50: 0.65 μ M (mGlu₇ receptor), 2.6 μ M (mGlu₈ receptor)^[1]

In Vitro: VU6005649 is a CNS penetrant mGlu_{7/8} receptor agonist with EC₅₀s of 0.65 μ M and 2.6 μ M for mGlu₇ receptor and mGlu₈ receptor, respectively. VU6005649 displays a terminal K_p of 2.43 with total brain levels ~9× above the mGlu₇ positive allosteric modulator (PAM) *in vitro* EC₅₀^[1].

In Vivo: When VU6005649 (compound 9f) is dosed at 30 mg/kg IP in 10% Tween 80/H₂O (0.75 mg/kg. s.c. amphetamine), no efficacy is observed in this assay. VU6005649 shows modest but significant pro-cognitive effects on associative learning in wild-type mice and the first example of efficacy of an mGlu_{7/8} positive allosteric modulator (PAM) in this model^[1].



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