



## 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 <sub>16</sub> H <sub>12</sub> F <sub>5</sub> N <sub>3</sub> O
Pathway: GPCR/G Protein
<b>Target:</b> mGluR
Purity / Grade: >98%
<b>Solubility:</b> 10 mM in DMSO
Observed Molecular Weight: 357.28





## **Product Description**

VU6005649 is a CNS penetrant  ${\rm mGlu_{7/8}}$  receptor agonist with  ${\rm EC_{50}}$ s of 0.65  $\mu$ M and 2.6  $\mu$ M for  ${\rm mGlu_7}$  receptor and  ${\rm mGlu_8}$  receptor, respectively.

IC50 & Target: EC50: 0.65  $\mu$ M (mGlu $_7$  receptor ), 2.6  $\mu$ M (mGlu $_8$  receptor) $^{[1]}$ 

In Vitro: VU6005649 is a CNS penetrant mGlu $_{7/8}$  receptor agonist with EC $_{50}$ s of 0.65  $\mu$ M and 2.6  $\mu$ M for mGlu $_7$  receptor and mGlu $_8$  receptor, respectively. VU6005649 displays a terminal K $_p$  of 2.43 with total brain levels ~9× above the mGlu $_7$  positive allosteric modulator (PAM) in vitro EC $_{50}$ <sup>[1]</sup>.

In Vivo: When VU6005649 (compound 9f) is dosed at 30 mg/kg IP in 10% Tween 80/H $_2$ O (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<sup>[1]</sup>.

All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!