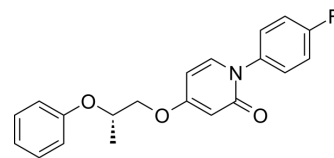


VU6010572

Cat. No.:	HY-122138
CAS No.:	2126784-39-0
Molecular Formula:	C ₂₀ H ₁₈ FNO ₃
Molecular Weight:	339.36
Target:	mGluR
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	-20°C, protect from light, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (294.67 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	2.9467 mL	14.7336 mL	29.4672 mL
5 mM	0.5893 mL	2.9467 mL	5.8934 mL
10 mM	0.2947 mL	1.4734 mL	2.9467 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

VU6010572 is a potent and selective mGlu3 negative allosteric modulator with IC₅₀ of 245 nM. VU6010572 is highly CNS penetrant^{[1][2]}.

IC₅₀ & Target

mGluR3
245 nM (IC₅₀)

In Vivo

VU6010572 (3 mg/kg; i.p.) shows robust efficacy^[1].
VU6010572 (3 mg/kg; i.p.; 45 minutes) produces lasting anxiolytic-like behavioral effects^[2].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	CD-1 mice ^[1]
Dosage:	3 mg/kg
Administration:	i.p.

Result:	Showed robust efficacy.
Animal Model:	Rats ^[2]
Dosage:	3 mg/kg
Administration:	I.p.; 45 minutes
Result:	Produced lasting anxiolytic-like behavioral effects.

REFERENCES

[1]. Engers JL, et al. Design and Synthesis of N-Aryl Phenoxyethoxy Pyridinones as Highly Selective and CNS Penetrant mGlu3 NAMs. ACS Med Chem Lett. 2017;8(9):925-930. Published 2017 Aug 15.

[2]. Ryan E. Tyler¹, et al. The effects of predator odor (TMT) exposure and mGlu3 NAM pretreatment on lasting behavioral and molecular adaptations in the insular cortex and BNST

Caution: Product has not been fully validated for medical applications. For research use only.

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