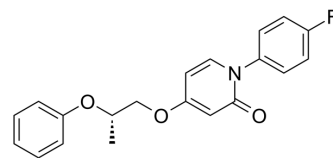


VU6010572

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:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	VU6010572 is a potent and selective mGlu3 negative allosteric modulator with IC ₅₀ of 245 nM. VU6010572 is highly CNS penetrant ^{[1][2]} .																
IC₅₀ & Target	mGluR3 245 nM (IC ₅₀)																
In Vivo	<p>VU6010572 (3 mg/kg; i.p.) shows robust efficacy^[1].</p> <p>VU6010572 (3 mg/kg; i.p.; 45 minutes) produces lasting anxiolytic-like behavioral effects^[2].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <table border="1"> <tr> <td>Animal Model:</td> <td>CD-1 mice^[1]</td> </tr> <tr> <td>Dosage:</td> <td>3 mg/kg</td> </tr> <tr> <td>Administration:</td> <td>i.p.</td> </tr> <tr> <td>Result:</td> <td>Showed robust efficacy.</td> </tr> <tr> <td>Animal Model:</td> <td>Rats^[2]</td> </tr> <tr> <td>Dosage:</td> <td>3 mg/kg</td> </tr> <tr> <td>Administration:</td> <td>i.p.; 45 minutes</td> </tr> <tr> <td>Result:</td> <td>Produced lasting anxiolytic-like behavioral effects.</td> </tr> </table>	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.
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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

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA