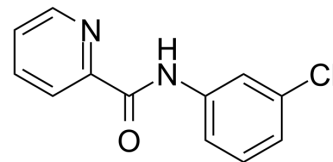


VU0364770 hydrochloride

Cat. No.:	HY-100588A
CAS No.:	1414842-70-8
Molecular Formula:	C ₁₂ H ₁₀ Cl ₂ N ₂ O
Molecular Weight:	269.13
Target:	mGluR
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



H-Cl

SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (371.57 mM; Need ultrasonic)																								
	H ₂ O : < 0.1 mg/mL (ultrasonic;warming;heat to 60°C) (insoluble)																								
	Preparing Stock Solutions	<table border="1"> <thead> <tr> <th rowspan="2">Solvent</th> <th rowspan="2">Mass</th> <th colspan="3">Concentration</th> </tr> <tr> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td>1 mM</td> <td>3.7157 mL</td> <td>18.5784 mL</td> <td>37.1568 mL</td> </tr> <tr> <td>5 mM</td> <td>0.7431 mL</td> <td>3.7157 mL</td> <td>7.4314 mL</td> </tr> <tr> <td>10 mM</td> <td>0.3716 mL</td> <td>1.8578 mL</td> <td>3.7157 mL</td> </tr> </tbody> </table>	Solvent	Mass	Concentration			1 mg	5 mg	10 mg	1 mM	3.7157 mL	18.5784 mL	37.1568 mL	5 mM	0.7431 mL	3.7157 mL	7.4314 mL	10 mM	0.3716 mL	1.8578 mL	3.7157 mL			
		Solvent			Mass	Concentration																			
			1 mg	5 mg		10 mg																			
1 mM		3.7157 mL	18.5784 mL	37.1568 mL																					
5 mM	0.7431 mL	3.7157 mL	7.4314 mL																						
10 mM	0.3716 mL	1.8578 mL	3.7157 mL																						
Please refer to the solubility information to select the appropriate solvent.																									
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 5 mg/mL (18.58 mM); Clear solution 2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 5 mg/mL (18.58 mM); Clear solution																								

BIOLOGICAL ACTIVITY

Description	VU0364770 hydrochloride is a selective and potent positive allosteric modulator (PAM) of mGlu4. VU0364770 hydrochloride exhibits EC ₅₀ s of 290 nM and 1.1 μM at rat mGlu4 and human mGlu4 receptor, respectively. VU0364770 hydrochloride exhibits antagonist activity at mGlu5 with a potency of 17.9 μM and PAM activity at mGlu6 with a potency of 6.8 μM. VU0364770 hydrochloride also possesses activity at MAO with K _i values of 8.5 and 0.72 μM for human MAO-A and human MAO-B, respectively ^[1] .			
IC ₅₀ & Target	Rat mGlu ₄ 290 nM (EC50)	Human mGlu ₄ 1.1 μM (EC50)	mGlu ₆ 6.8 μM (EC50)	mGlu ₅ 17.9 μM (EC50)

REFERENCES

[1]. Jones CK, et al. The metabotropic glutamate receptor 4-positive allosteric modulator VU0364770 produces efficacy alone and in combination with L-DOPA or an adenosine 2A antagonist in preclinical rodent models of Parkinson's disease. J Pharmacol Exp Ther.

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