LY2389575 hydrochloride

MedChemExpress

R

Cat. No.:	HY-107509				
CAS No.:	885104-09-	6			
Molecular Formula:	C ₁₅ H ₁₆ BrCl ₃ N ₄				
Molecular Weight:	438.58				
Target:	mGluR				
Pathway:	GPCR/G Protein; Neuronal Signaling				
Storage:	Powder	-20°C	3 years		
		4°C	2 years		
	In solvent	-80°C	6 months		
		-20°C	1 month		

SOLVENT & SOLUBILITY

In Vitro		DMSO : 100 mg/mL (228.01 mM; ultrasonic and warming and heat to 60°C) Methanol : 8.33 mg/mL (18.99 mM; ultrasonic and warming and heat to 60°C)						
		Solvent Mass Concentration	1 mg	5 mg	10 mg			
	Preparing Stock Solutions	1 mM	2.2801 mL	11.4004 mL	22.8009 mL			
		5 mM	0.4560 mL	2.2801 mL	4.5602 mL			
		10 mM	0.2280 mL	1.1400 mL	2.2801 mL			
	Please refer to the solu	Please refer to the solubility information to select the appropriate solvent.						
n Vivo		ne by one: 10% DMSO >> 40% PEC /mL (5.70 mM); Clear solution	G300 >> 5% Tween-8	0 >> 45% saline				
Solubility:≥2.5 3. Add each solven		2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (5.70 mM); Clear solution						
	one by one: 10% DMSO >> 90% corn oil ng/mL (5.70 mM); Clear solution							

BIOLOGICAL ACTIV	ИТҮ
Description	LY2389575 hydrochloride is a selective and noncompetitive mGlu3 negative allosteric modulator (NAM), with an IC ₅₀ value of 190 nM. LY2389575 hydrochloride induces an increase in Mrc1 levels. LY2389575 hydrochloride also independently amplifies Amyloid beta (Aβ) toxicity and can be used in study of Alzheimer's disease ^{[1][2][3]} .
IC ₅₀ & Target	mGluR3 190 nM (IC ₅₀)

H-CI

CI

CI

Br

 In Vitro
 LY2389575 hydrochloride (5 μM; 1 h) induces an increase in Mrc1 levels in microglial cells^[2].

 MCE has not independently confirmed the accuracy of these methods. They are for reference only.

 Real Time qPCR^[2]

 Cell Line:
 Microglial cells

 Concentration:
 5 μM

 Incubation Time:
 1 h

 Result:
 Increased levels of Mrc1.

REFERENCES

[1]. Caraci F, et al. Targeting group II metabotropic glutamate (mGlu) receptors for the treatment of psychosis associated with Alzheimer's disease: selective activation of mGlu2 receptors amplifies beta-amyloid toxicity in cultured neurons, whereas dual activation of mGlu2 and mGlu3 receptors is neuroprotective. Mol Pharmacol. 2011 Mar;79(3):618-26.

[2]. Zinni M, et al. mGlu3 receptor regulates microglial cell reactivity in neonatal rats. J Neuroinflammation. 2021 Jan 6;18(1):13.

[3]. Srivastava A, et al. Metabotropic Glutamate Receptors in Alzheimer's Disease Synaptic Dysfunction: Therapeutic Opportunities and Hope for the Future. J Alzheimers Dis. 2020;78(4):1345-1361.

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