

CHPG hydrochloride

Chemical Properties

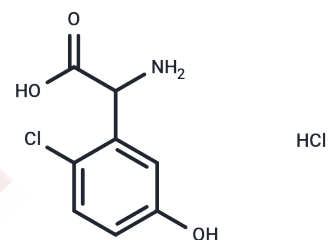
CAS No. :

Formula: C₈H₉Cl₂N₃O₃

Molecular Weight: 238.07

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	CHPG hydrochloride is a selective agonist of mGluR5.
Targets(IC50)	ERK,NF-κB,GluR
In vitro	After SO ₂ derivatives treatment, CHPG hydrochloride (10-500μM) increases the cell viability and reduces the release of LDH. CHPG hydrochloride (0.5mM) protects BV2 cells against SO ₂ -induced apoptosis and increases the TSG-6 expression through the TSG-6/NF-κB pathway[1].
In vivo	In adult Sprague-Dawley male rats, injection of CHPG hydrochloride (250 nM) reduces significantly cerebral lesion volume by activation of the ERK and Akt signaling pathways [2].

Solubility Information

Solubility	DMSO: 30 mg/mL (126.01 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.2004 mL	21.0022 mL	42.0045 mL
5 mM	0.8401 mL	4.2004 mL	8.4009 mL
10 mM	0.420 mL	2.1002 mL	4.2004 mL
50 mM	0.084 mL	0.420 mL	0.8401 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Qiu JL, et al. The selective mGluR5 agonist CHPG attenuates SO₂-induced oxidative stress and inflammation through TSG-6/NF- κ B pathway in BV2 microglial cells. *Neurochem Int.* 2015 Jun-Jul;85-86:46-52.

Chen T, et al. The selective mGluR5 agonist CHPG protects against traumatic brain injury in vitro and in vivo via ERK and Akt pathway. *Int J Mol Med.* 2012 Apr;29(4):630-6.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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