Data Sheet (Cat.No.T10809L)

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CHPG hydrochloride

Chemical Properties

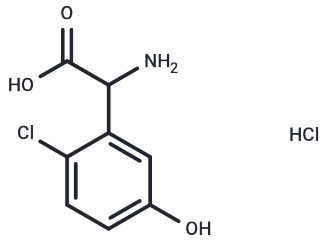
CAS No. :

Formula: C8H9Cl2NO3

Molecular Weight: 238.07

Appearance: no data available

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



Biological Description

Description	CHPG hydrochloride is a selective agonist of mGluR5.
Targets(IC50)	ERK,NF-κB,GluR
In vitro	After SO2 derivatives treatment, CHPG hydrochloride (10-500μM) increases the cell viability and reduces the release of LDH. CHPG hydrochloride (0.5mM) protects BV2 cells against SO2-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) (< 1 mg/ml refers to the product slightly soluble or insoluble)

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.

Reference

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

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