

## CHPG sodium salt

## Chemical Properties

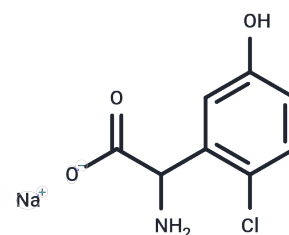
CAS No. : 1303993-73-8

Formula: C<sub>8</sub>H<sub>7</sub>ClNNaO<sub>3</sub>

Molecular Weight: 223.59

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 sodium salt is a selective agonist of mGluR5 that activates ERK and Akt signaling pathways and is utilized in studies on traumatic brain injury.
Targets(IC50)	ERK,NF-κB,Akt,GluR
In vitro	After the treatment of SO <sub>2</sub> derivatives, CHPG sodium salt (10-500μM) increases the cell viability and decreases the release of LDH. CHPG sodium salt (0.5mM) prevents SO <sub>2</sub> -induced apoptosis and increases the expression of TSG-6 through TSG-6/NF-κB pathway in BV2 cells[1].
In vivo	In Sprague-Dawley male rats, injection of CHPG sodium salt (250 nM) reduces the cerebral lesion volume significantly[2].

## Solubility Information

Solubility	H <sub>2</sub> O: 6 mg/mL (26.83 mM),Sonication and heating to 80°C are recommended. DMSO: 90 mg/mL (402.52 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (14.76 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	4.4725 mL	22.3624 mL	44.7247 mL
5 mM	0.8945 mL	4.4725 mL	8.9449 mL
10 mM	0.4472 mL	2.2362 mL	4.4725 mL
50 mM	0.0894 mL	0.4472 mL	0.8945 mL

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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 SO

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.

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