

(S)-4CPG

## Chemical Properties

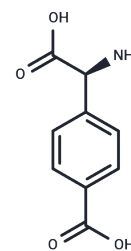
CAS No. : 134052-73-6

Formula: C<sub>9</sub>H<sub>9</sub>NO<sub>4</sub>

Molecular Weight: 195.17

Storage: Keep away from direct sunlight, Store under nitrogen  
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	(S)-4CPG ((S)-4-Carboxyphenylglycine) is a competitive mGlu1 receptor antagonist that attenuates nociceptive hypersensitivity and nociceptive abnormalities associated with sciatic nerve constriction injuries in rats, and may be used in the study of neurological disorders.
Targets(IC50)	GluR

## Solubility Information

Solubility	DMSO: < 1 mg/mL (insoluble or slightly soluble) H <sub>2</sub> O: 2.17 mg/mL (11.12 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	5.1237 mL	25.6187 mL	51.2374 mL
5 mM	1.0247 mL	5.1237 mL	10.2475 mL
10 mM	0.5124 mL	2.5619 mL	5.1237 mL
50 mM	0.1025 mL	0.5124 mL	1.0247 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

Hayashi Y, et al. Analysis of agonist and antagonist activities of phenylglycine derivatives for different cloned metabotropic glutamate receptor subtypes. *J Neurosci.* 1994 May;14(5 Pt 2):3370-7.

Fisher K, et al. Intrathecal administration of the mGluR compound, (S)-4CPG, attenuates hyperalgesia and allodynia associated with sciatic nerve constriction injury in rats. *Pain.* 1998 Jul;77(1):59-66.

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