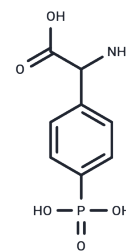


(RS)-PPG

Chemical Properties

CAS No. : 120667-15-4
 Formula: C₈H₁₀NO₅P
 Molecular Weight: 231.14
 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	(RS)-PPG is a potent and selective group III mGluRs agonist (EC ₅₀ s of 5.2 μM, 4.7 μM, 185 μM, and 0.2 μM for hmGluR4a, hmGluR6, hmGluR7b, and hmGluR8a, respectively), with neuroprotective and anticonvulsive activity.
Targets(IC ₅₀)	Others, GluR
In vitro	Activation of neurons in group III mGluRs by (RS)-PPG (100 μM) can significantly suppress the elevation of intracellular calcium and protect neurons from apoptosis induced by Aβ[31-35] (25 μM)[2].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.3264 mL	21.6319 mL	43.2638 mL
5 mM	0.8653 mL	4.3264 mL	8.6528 mL
10 mM	0.4326 mL	2.1632 mL	4.3264 mL
50 mM	0.0865 mL	0.4326 mL	0.8653 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

Gasparini F, et al. (R,S)-4-phosphonophenylglycine, a potent and selective group III metabotropic glutamate receptor agonist, is anticonvulsive and neuroprotective in vivo. *J Pharmacol Exp Ther.* 1999 Jun;289(3):1678-87.
 Zhao L, et al. Activation of group III metabotropic glutamate receptor reduces intracellular calcium in beta-amyloid peptide [31-35]-treated cortical neurons. *Neurotox Res.* 2009 Aug;16(2):174-83.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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