## Certificate of Analysis

# Print Date: Sep 17<sup>th</sup> 2020

## Product Name: (RS)-PPG

TOCRIS

a **biotechne** b

## www.tocris.com

Catalog No.: 1220 Batch No.: 2

CAS Number: 120667-15-4 IUPAC Name: (*RS*)-4-Phosphonophenylglycine

## 1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility: Storage: Batch Molecular Structure: **S**   $C_8H_{10}NO_5P.H_2O$ 249.16 White solid 1eq. NaOH to 100 mM Store at RT  $H_2N \rightarrow CO_2H$ 

## 2. ANALYTICAL DATA

TLC:Rf = 0.25 (Pyridine:Acetic acid:Water:Butanol [3:8:11:33])Melting Point:Greater than 300°C(Dec)<sup>1</sup>H NMR:Consistent with structureMicroanalysis:Carbon Hydrogen NitrogenTheoretical 38.574.855.62000

38.66

4.8

5.59

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Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

## TOCR biotechne bi

## **Product Information**

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Batch No.: 2

Print Date: Sep 17th 2020

#### (RS)-PPG Product Name:

CAS Number: 120667-15-4 (RS)-4-Phosphonophenylglycine

**IUPAC Name:** 

### **Description:**

A potent and selective group III metabotropic glutamate receptor agonist, with approximately 25-fold preference for hmGlu<sub>8</sub>; anticonvulsant and neuroprotective in vivo.

#### **Physical and Chemical Properties:**

Batch Molecular Formula: C<sub>8</sub>H<sub>10</sub>NO<sub>5</sub>P.H<sub>2</sub>O Batch Molecular Weight: 249.16 Physical Appearance: White solid

### **Batch Molecular Structure:**

H<sub>Z</sub>N. CO<sub>2</sub>H

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### Storage: Store at RT

Solubility & Usage Info: 1eq. NaOH to 100 mM

#### **Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

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Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

### **References:**

Gasparini et al (1999) (R,S)-4-Phosphonophenylglycine, a potent and selective group III metabotropic glutamate receptor agonist, is anticonvulsive and neuroprotective in vivo. J.Pharmacol.Exp.Ther. 289 1678. PMID: 10336568.

Flor et al (1998) Neuroprotection in vitro and in vivo by (R,S)-PPG, a potent and selective group III metabotropic glutamate receptor agonist. Soc.Neurosci.Abstr. 24 431.11.

Bigge et al (1989) Exploration of phenyl-spaced 2-amino-(5,9)-phosphonoalkanoic acids as competitive N-MthD.-aspartic acid antagonists. J.Med.Chem. 32 1580. PMID: 2544728.

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