

Certificate of Analysis

Print Date: Jan 13th 2016 **WWW.tocris.com**

Product Name: UBP1112 Catalog No.: 1369 Batch No.: 2

CAS Number: 339526-74-8

IUPAC Name: α -Methyl-3-methyl-4-phosphonophenylglycine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₀H₁₄NO₅P

Batch Molecular Weight: 259.2 **Physical Appearance:** White solid

Solubility: 1eq. NaOH to 100 mM

Storage: Store at RT

Batch Molecular Structure:

2. ANALYTICAL DATA

TLC: $R_f = 0.5$ (Pyridine:Acetic acid:Water:Butanol [3:8:11:33])

HPLC: Shows >99.1% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis: Carbon Hydrogen Nitrogen

Theoretical 46.34 5.44 5.4 Found 46 5.44 5.31



Product Information

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Description:

A selective group III mGlu receptor antagonist (apparent K_d values are 5.1 and 488 μ M for group III and group II mGlu receptors respectively; IC₅₀ > 1 mM for group I, NMDA, AMPA and kainate receptors).

Physical and Chemical Properties:

Batch Molecular Formula: C₁₀H₁₄NO₅P Batch Molecular Weight: 259.2 Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:

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).

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:

Conway et al (2001) Synthesis of phenylglycine derivatives as potent and selective antagonists of group III metabotropic glutamate receptors. Bioorg.Med.Chem.Lett. **11** 777. PMID: 11277518.

Miller et al (2003) Phenylglycine derivatives as antagonists of group III metabotropic glutamate receptors expressed on neonatal rat primary afferent terminals. Br.J.Pharmacol. 139 1523. PMID: 12922940.