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Print Date: Jan 15th 2016

Certificate of Analysis

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Product Name: **UBP 282** **Catalog No.: 1765** **Batch No.: 1**

CAS Number: 544697-47-4

IUPAC Name: (α*S*)-α-Amino-3-[(4-carboxyphenyl)methyl]-3,4-dihydro-2,4-dioxo-1(2*H*)-pyrimidinepropanoic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{15}H_{15}N_3O_6 \cdot ¼H_2O$

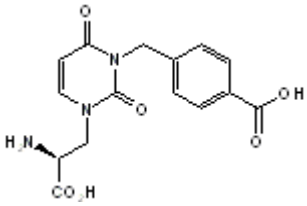
Batch Molecular Weight: 337.8

Physical Appearance: White solid

Solubility: 1eq. NaOH to 100 mM
1eq. HCl to 25 mM

Storage: Store at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.5 (Isopropanol:Ammonia solution [6:4])

Melting Point: Greater than 215°C

HPLC: Shows 98.9% purity

Chiral HPLC: Shows 99.1% purity

^{1}H NMR: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	53.33	4.62	12.44
Found	53.25	4.47	12.43

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Description:

AMPA and kainate receptor antagonist. Inhibits AMPA receptor-, but not kainate receptor-mediated currents on spinal neonatal motoneurons yet antagonizes kainate-induced responses on dorsal root C-fibres.

Physical and Chemical Properties:

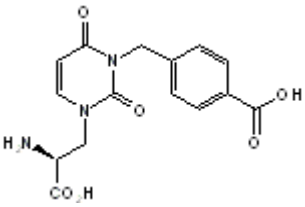
Batch Molecular Formula: $C_{15}H_{15}N_3O_6.¼H_2O$

Batch Molecular Weight: 337.8

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

1eq. NaOH to 100 mM
1eq. HCl to 25 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:

More *et al* (2002) The novel antagonist 3-CBW discriminates between kainate receptors expressed on neonatal rat motoneurones and those on dorsal root C-fibres. Br.J.Pharmacol. ***137*** 1125. PMID: 12429586.

More *et al* (2003) Structural requirements for novel willardiine derivatives acting as AMPA and kainate receptor antagonists. Br.J.Pharmacol. ***138*** 1093. PMID: 12684265.