

Certificate of Analysis

Product Name: UBP 301

Catalog No.: 1766

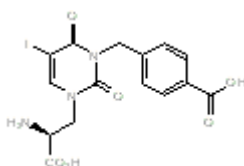
Batch No.: 2

CAS Number: 569371-10-4

IUPAC Name: (α S)- α -Amino-3-[(4-carboxyphenyl)methyl]-3,4-dihydro-5-iodo-2,4-dioxo-1(2H)-pyrimidinepropanoic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₅H₁₄IN₃O₆
Batch Molecular Weight: 459.2
Physical Appearance: White solid
Solubility: DMSO to 5 mM with gentle warming
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.5 (Isopropanol:Ammonia solution [4:1])
HPLC: Shows >99.2% purity
¹H NMR: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	39.23	3.07	9.15
Found	39.2	3.13	9.03

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

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Description:

Potent kainate receptor antagonist (apparent $K_d = 5.94 \mu\text{M}$).
Displays ~ 30-fold selectivity over AMPA receptors.

Physical and Chemical Properties:

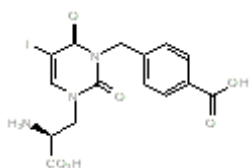
Batch Molecular Formula: $\text{C}_{15}\text{H}_{14}\text{IN}_3\text{O}_6$

Batch Molecular Weight: 459.2

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

DMSO to 5 mM with gentle warming

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

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