

**Product Name:** UBP 296

**Catalog No.:** 2078

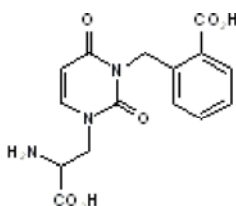
**Batch No.:** 1

CAS Number: 745055-86-1

IUPAC Name: (RS)-1-(2-Amino-2-carboxyethyl)-3-(2-carboxybenzyl)pyrimidine-2,4-dione

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>15</sub>H<sub>15</sub>N<sub>3</sub>O<sub>6</sub>.H<sub>2</sub>O  
**Batch Molecular Weight:** 351.32  
**Physical Appearance:** White solid  
**Solubility:** 1eq. NaOH to 10 mM with gentle warming  
 1eq. HCl to 5 mM with gentle warming  
 DMSO to 10 mM  
**Storage:** Store at RT  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**TLC:** R<sub>f</sub> = 0.2 (Isopropanol:Acetic acid [7:3])  
**HPLC:** Shows 98.9% purity  
<sup>1</sup>H NMR: Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	51.28	4.88	11.96
Found	51.14	4.9	12.07

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**Description:**

Selective GluK1 (formally GluR5) subunit containing kainate receptor antagonist (apparent  $K_D = 1.09 \mu\text{M}$ ). Displays ~ 90-fold selectivity over AMPA receptors and recombinant hGluK2 (formally hGluR6) and GluK5 (formally KA2) containing kainate receptors. Has little or no action at NMDA or group I mGlu receptors. Selectively blocks kainate receptor-mediated LTP induction in rat hippocampal mossy fibers. Active Enantiomer also available. Please refer to IUPHAR Guide to Pharmacology for the most recent naming conventions. Please see product datasheet on www.tocris.com for full description.

**Physical and Chemical Properties:**

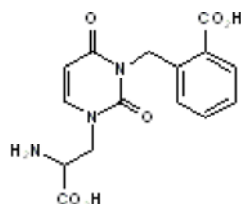
Batch Molecular Formula:  $\text{C}_{15}\text{H}_{15}\text{N}_3\text{O}_6 \cdot \text{H}_2\text{O}$

Batch Molecular Weight: 351.32

Physical Appearance: White solid

**Minimum Purity:**  $\geq 98\%$

**Batch Molecular Structure:**



**References:**

**Dolman et al** (2005) Synthesis and pharmacology of willardiine derivatives acting as antagonists of kainate receptors. *J.Med.Chem.* **48** 7867. PMID: 16302825.

**More et al** (2004) Characterisation of UBP296: a novel, potent and selective kainate receptor antagonist. *Neuropharmacology* **47** 46. PMID: 15165833.

**Storage:** Store at RT

**Solubility & Usage Info:**

1eq. NaOH to 10 mM with gentle warming  
1eq. HCl to 5 mM with gentle warming  
DMSO to 10 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.

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**bio-techne.com**

info@bio-techne.com

techsupport@bio-techne.com

**North America**

Tel: (800) 343 7475

**China**

info.cn@bio-techne.com

Tel: +86 (21) 52380373

**Europe Middle East Africa**

Tel: +44 (0)1235 529449

**Rest of World**

www.tocris.com/distributors

Tel:+1 612 379 2956