1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: \( \text{C}_{15}\text{H}_{15}\text{N}_{3}\text{O}_{6}.\text{H}_{2}\text{O} \)
Batch Molecular Weight: 351.32
Physical Appearance: White solid
Solubility: 1 eq. NaOH to 10 mM with gentle warming
1 eq. HCl to 5 mM with gentle warming
DMSO to 10 mM
Storage: Store at RT

2. ANALYTICAL DATA

TLC: \( R_f = 0.2 \) (Isopropanol:Acetic acid [7:3])
HPLC: Shows >99% purity
\(^1\)H NMR: Consistent with structure
Microanalysis:

<table>
<thead>
<tr>
<th></th>
<th>Carbon</th>
<th>Hydrogen</th>
<th>Nitrogen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Theoretical</td>
<td>51.28</td>
<td>4.88</td>
<td>11.96</td>
</tr>
<tr>
<td>Found</td>
<td>51.14</td>
<td>4.9</td>
<td>12.07</td>
</tr>
</tbody>
</table>
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

Description:
Selective GluK1 (formally GluR5) subunit containing kainate receptor antagonist (apparent Kᵦ = 1.09 μM). 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: C₁₅H₁₈N₄O₆.H₂O
Batch Molecular Weight: 351.32
Physical Appearance: White solid
Minimum Purity: >98%

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).

References: