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## DATASHEET

UBP 302

### Product overview

<b>Name</b>	UBP 302
<b>Cat No</b>	HB0627
<b>Biological action</b>	Antagonist
<b>Purity</b>	>98%
<b>Description</b>	Potent, selective GluK1 subunit selective kainate receptor antagonist

### Images



### Biological Data

<b>Biological description</b>	Potent and selective GluK1 (formerly GluR5) subunit selective kainate receptor antagonist (apparent $K_D = 402$ nM). Active enantiomer of UBP 296. Shows anxiolytic effects.
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### Solubility & Handling

<b>Storage instructions</b>	Room temperature
<b>Solubility overview</b>	Soluble in NaOH(aq) (25mM, gentle warming) or DMSO (20mM, gentle warming)
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

### Chemical Data

<b>Chemical name</b>	(S)-1-(2-Amino-2-carboxyethyl)-3-(2-carboxybenzyl)pyrimidine-2,4-dione
<b>Molecular Weight</b>	333.3
<b>Chemical structure</b>	
<b>Molecular Formula</b>	$C_{15}H_{15}N_3O_6$
<b>CAS Number</b>	745055-91-8
<b>PubChem identifier</b>	6420161

<b>Chemical name</b>	(S)-1-(2-Amino-2-carboxyethyl)-3-(2-carboxybenzyl)pyrimidine-2,4-dione
<b>SMILES</b>	<chem>O=C(C=CN(C[C@H](N)C(O)=O)C2=O)N2CC1=CC=CC=C1C(O)=O</chem>
<b>InChiKey</b>	UUIYULWYHDSXHL-NSHDSACASA-N

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## References

### Characterisation of UBP296: a novel, potent and selective kainate receptor antagonist.

More JC *et al* (2004) *Neuropharmacology* 47(1)

**PubMedID** [15165833](#)

### Synthesis and pharmacology of willardiine derivatives acting as antagonists of kainate receptors.

Dolman NP *et al* (2005) *J Med Chem* 48(24)

**PubMedID** [16302825](#)

### Presynaptic facilitation of glutamate release in the basolateral amygdala: a mechanism for the anxiogenic and seizurogenic function of GluK1 receptors.

Aroniadou-Anderjaska V *et al* (2012) *Neuroscience* 221

**PubMedID** [22796081](#)

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