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DATASHEET

UBP 302

Product overview

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

Images



Biological Data

Biological description	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

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

Chemical Data

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

SMILES
InChIKey

O=C(C=CN(C[C@H](N)C(O)=O)C2=O)N2CC1=CC=CC=C1C(O)=O
UUIYULWYHDSXHL-NSHDSACASA-N

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](#)
