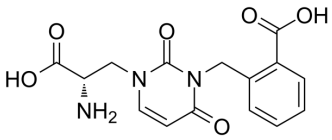
UBP 302

Cat. No.:	HY-107604
CAS No.:	745055-91-8
Molecular Formula:	$C_{15}H_{15}N_3O_6$
Molecular Weight:	333.3
Target:	iGluR
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 2 years -20°C 1 year



BIOLOGICAL ACTIVITY

Description	UBP 302 is a potent and selective GLUK5-subunit containing kainate receptor antagonist (apparent K_d=402 nM), and displays very little affinity on GluK2 (GluR6) kainate receptors. Anxiolytic effects[1][2][3].
IC_{50} & Target	apparent Kd: 402 nM (GLUK5)[2] IC50: 106 μM (AMPA receptors)[2]

REFERENCES

[1]. More JC, et al. Characterisation of UBP296: a novel, potent and selective kainate receptor antagonist. Neuropharmacology. 2004 Jul;47(1):46-64.

[2]. Dolman NP, et al. Synthesis and pharmacology of willardiine derivatives acting as antagonists of kainate receptors. J Med Chem. 2005 Dec 1;48(24):7867-81.

[3]. Apland JP, et al. The limitations of diazepam as a treatment for nerve agent-induced seizures and neuropathology in rats: comparison with UBP302. J Pharmacol Exp Ther. 2014 Nov;351(2):359-72.

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