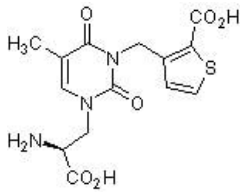
abcam

Product datasheet

UBP310, GluK1 and GluK3 selective antagonist ab120168

3 References 1 Image

Overview

Product name	UBP310, GluK1 and GluK3 selective antagonist
Description	GluK1 and GluK3 selective antagonist
Biological description	GluK1 (formerly GluR5) and GluK3 (formerly GluR7) receptor selective antagonist (K_b =10 nM and IC_{50} = 23 nM, respectively). IC_{50} values are >100 µM at recombinant human GLUA2 (formerly GluR2), GluK2 (formerly GluR6,) GluK2/GluK5 (formerly GluR6/KA2) and GluK2/GluK3 (formerly GluR6/GluR7). Selective over native AMPA receptors (K_d = 83 µM) and exhibits no activity at NMDA and Group I mGlu receptors at concentrations of up to 10 µM.
Purity	> 98%
CAS Number	902464-46-4
Chemical structure	

Properties

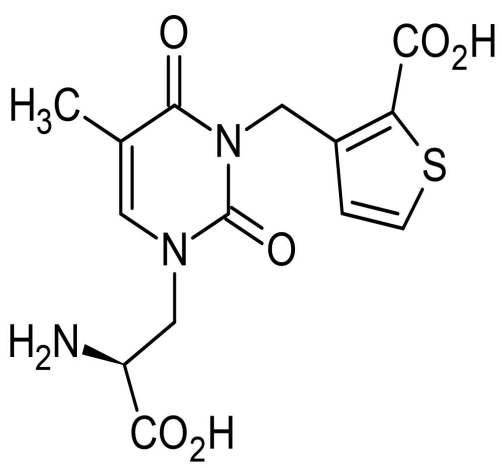
Chemical name	(*S*)-1-(2-Amino-2-carboxyethyl)-3-(2-carboxythiophene-3-yl-methyl)-5-methylpyrimidine-2,4-dione
Molecular weight	353.35
Molecular formula	$C_{14}H_{15}N_3O_6S$
PubChem identifier	6420160
Storage instructions	Store at +4°C. Store under desiccating conditions. The product can be stored for up to 12 months.
Solubility overview	Soluble in DMSO to 100 mM
Handling	Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.

Need more advice on solubility, usage and handling? Please visit our frequently asked questions (FAQ) page for more details.

SMILES O=C(O)[C@@H](N)CN2C=C(C)C(=O)N(Cc1ccsc1C(=O)O)C2=O

Source Synthetic

Images



Chemical Structure - UBP310, GluK1 and GluK3 selective antagonist (ab120168)

2D chemical structure image of ab120168, UBP310, GluK1 and GluK3 selective antagonist

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