UBP301 hydrochloride

Cat. No.: HY-107606A

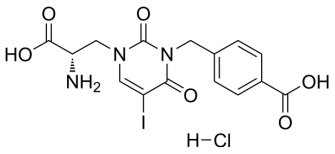
Molecular Formula: $C_{15}H_{15}ClIN_3O_6$

Molecular Weight: 495.65

Target: iGluR

Pathway: Membrane Transporter/Ion Channel; Neuronal Signaling

Storage: 4°C, sealed storage, away from moisture and light
* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (201.76 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.0176 mL	10.0878 mL	20.1755 mL
	5 mM	0.4035 mL	2.0176 mL	4.0351 mL
	10 mM	0.2018 mL	1.0088 mL	2.0176 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (5.04 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (5.04 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (5.04 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

UBP301 hydrochloride is a potent and selective antagonist of kainate receptor with IC_{50} and K_D of 164 μM and 5.94 μM, respectively. UBP301 hydrochloride has ⊠30-fold selectivity of kainate receptor over AMPA receptor. UBP301 hydrochloride is the derivative of willardiine[1].

IC_{50} & Target

164 μM (kainate receptor)[1]

REFERENCES

[1]. More JC, et al. Structural requirements for novel willardiine derivatives acting as AMPA and kainate receptor antagonists. Br J Pharmacol. 2003;138(6):1093-1100.

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