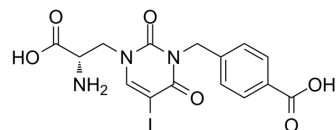


UBP301

Cat. No.:	HY-107606
CAS No.:	569371-10-4
Molecular Formula:	C ₁₅ H ₁₄ IN ₃ O ₆
Molecular Weight:	459.19
Target:	iGluR
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (217.77 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM		2.1777 mL	10.8887 mL	21.7775 mL
		5 mM		0.4355 mL	2.1777 mL	4.3555 mL
		10 mM		0.2178 mL	1.0889 mL	2.1777 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: ≥ 5 mg/mL (10.89 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 5 mg/mL (10.89 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 5 mg/mL (10.89 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	UBP301 is a potent and selective antagonist of kainate receptor with IC ₅₀ and K _D of 164 μM and 5.94 μM, respectively. UBP301 has -30-fold selectivity of kainate receptor over AMPA receptor. UBP301 is the derivative of willardiine ^[1] .
IC ₅₀ & Target	164 μM (kainate receptor) ^[1]

REFERENCES

Caution: Product has not been fully validated for medical applications. For research use only.

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