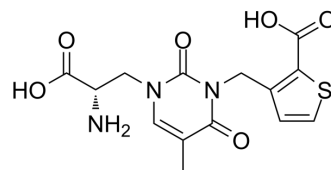


## UBP310

<b>Cat. No.:</b>	HY-107602		
<b>CAS No.:</b>	902464-46-4		
<b>Molecular Formula:</b>	C <sub>14</sub> H <sub>15</sub> N <sub>3</sub> O <sub>6</sub> S		
<b>Molecular Weight:</b>	353.35		
<b>Target:</b>	iGluR		
<b>Pathway:</b>	Membrane Transporter/Ion Channel; Neuronal Signaling		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

1M HCl : 30 mg/mL (84.90 mM; ultrasonic and adjust pH to 1 with HCl)  
 DMSO : 3.57 mg/mL (10.10 mM; ultrasonic and warming and heat to 60°C)

	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.8301 mL	14.1503 mL	28.3006 mL
	5 mM	0.5660 mL	2.8301 mL	5.6601 mL
	10 mM	0.2830 mL	1.4150 mL	2.8301 mL

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

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
 Solubility: ≥ 0.36 mg/mL (1.02 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
 Solubility: ≥ 0.36 mg/mL (1.02 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
 Solubility: ≥ 0.36 mg/mL (1.02 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

UBP310 is a selective GluR5 antagonist, with a K<sub>d</sub> of 130 nM<sup>[1]</sup>.

#### IC<sub>50</sub> & Target

GluR5<sup>[1]</sup>

#### In Vitro

UBP310 binds to GluR5 S1S2 with an affinity of 130 nM and shows 12,700-fold selectivity for GluR5 versus GluR6 and 830-fold selectivity for GluR5 versus GluR2<sup>[1]</sup>.

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MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## REFERENCES

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[1]. Mark L Mayer, et al. Crystal structures of the kainate receptor GluR5 ligand binding core dimer with novel GluR5-selective antagonists. J Neurosci. 2006 Mar 15;26(11):2852-61.

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

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