BPAM344

Cat. No.:	HY-129086
CAS No.:	1204572-55-3
Molecular Formula:	C ₁₀ H ₁₁ FN ₂ O ₂ S
Molecular Weight:	242.27
Target:	iGluR
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	4°C, protect from light
	* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)

SOLVENT & SOLUBILITY

In Vitro	DMSO : 250 mg/mL (1031.91 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg		
		1 mM	4.1276 mL	20.6381 mL	41.2763 mL		
		5 mM	0.8255 mL	4.1276 mL	8.2553 mL		
		10 mM	0.4128 mL	2.0638 mL	4.1276 mL		
	Please refer to the so	lubility information to select the app	propriate solvent.				
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (8.59 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (8.59 mM); Clear solution						
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (8.59 mM); Clear solution						

BIOLOGICAL ACTIVITY				
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Description	BPAM344 is a kainate receptor (KAR) subunits GluK1b, GluK2a, and GluK3a positive allosteric modulator (PAM) ^[1] .			
In Vitro	BPAM344 potentiates glutamate-evoked currents of GluK2a 21-fold at the highest concentration tested (200 μM), with an EC ₅₀ of 79 μM. BPAM344 markedly decreases desensitization kinetics (from 5.5 to 775 ms), whereas it only has a minor effect on deactivation kinetics ^[1] . BPAM344 (100 μM) also potentiates the peak current amplitude of KAR subunits GluK3a (59-fold), GluK2a (15-fold), GluK1b (5-fold), as well as the AMPA receptor subunit GluA1i (5-fold) ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			

Product Data Sheet

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REFERENCES

[1]. Anja Probst Larsen, et al. Identification and Structure-Function Study of Positive Allosteric Modulators of Kainate Receptors. Mol Pharmacol. 2017 Jun;91(6):576-585.

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

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