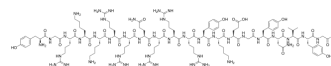


TAT-GluA2 3Y

Cat. No.:	HY-P2259
CAS No.:	1404188-93-7
Molecular Formula:	C ₁₁₅ H ₁₈₅ N ₄₃ O ₂₉
Molecular Weight:	2633.97
Sequence Shortening:	YGRKKRRQRRRYKEGYNVYG
Target:	iGluR
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	Sealed storage, away from moisture and light, under nitrogen
	Powder -80°C 2 years
	-20°C 1 year



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

SOLVENT & SOLUBILITY

In Vitro	H ₂ O : 100 mg/mL (37.97 mM); Need ultrasonic					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
			1 mM	0.3797 mL	1.8983 mL	3.7966 mL
			5 mM	0.0759 mL	0.3797 mL	0.7593 mL
			10 mM	0.0380 mL	0.1898 mL	0.3797 mL
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: PBS Solubility: 100 mg/mL (37.97 mM); Clear solution; Need ultrasonic					

BIOLOGICAL ACTIVITY

Description	TAT-GluA2 3Y, an interference peptide, blocks long-term depression (LTD) at glutamatergic synapses by disrupting the endocytosis of AMPAR. TAT-GluA2 3Y can alleviate Pentobarbital-induced spatial memory deficits and synaptic depression ^[1] [2][3].
IC ₅₀ & Target	AMPAR ^[1]

REFERENCES

[1]. Choi FY, et, al. Interference with AMPA receptor endocytosis: effects on behavioural and neurochemical correlates of amphetamine sensitization in male rats. J

Psychiatry Neurosci. 2014 May;39(3):189-99.

[2]. Chen Z, et, al. Prolonged adenosine A1 receptor activation in hypoxia and pial vessel disruption focal cortical ischemia facilitates clathrin-mediated AMPA receptor endocytosis and long-lasting synaptic inhibition in rat hippocampal CA3-CA1 synapses: differential regulation of GluA2 and GluA1 subunits by p38 MAPK and JNK. J Neurosci. 2014 Jul 16;34(29):9621-43.

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

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