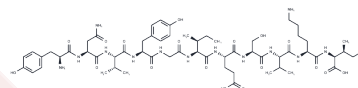


pep2-SVKI

Chemical Properties

CAS No. : 328944-75-8
 Formula: C₆₀H₉₃N₁₃O₁₈
 Molecular Weight: 1284.47
 Storage: Keep away from moisture
 Powder: -20°C for 3 years | In solvent: -80°C for 1 year
 Actual storage temperature shall be subject to the COA.



Biological Description

Description	Inhibitor peptide corresponding to last 10 amino acids of the C-terminus of the GluA2 AMPA receptor subunit. Disrupts binding of GluA2 (at the C-terminal PDZ site) with glutamate receptor interacting protein (GRIP), AMPA receptor binding protein (ABP) and protein interacting with C kinase (PICK1). Increases amplitude of AMPA receptor-mediated currents and blocks long-term depression (LTD).
Targets(IC50)	iGluR

Solubility Information

Solubility	H ₂ O: 1 mg/mL (0.78 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.7785 mL	3.8927 mL	7.7853 mL
5 mM	0.1557 mL	0.7785 mL	1.5571 mL
10 mM	0.0779 mL	0.3893 mL	0.7785 mL
50 mM	0.0156 mL	0.0779 mL	0.1557 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Collingridge and Isaac (2003) Functional roles of protein interactions with AMPA and kainate receptors. *Neurosci. Res.* 47 3 PMID: 12941441

Daw et al (2000) PDZ proteins interacting with C-terminal GluR2/3 are involved in a PKC-dependent regulation of AMPA receptors at hippocampal synapses. *Neuron* 28 873 PMID: 11163273

Kim et al (2001) Interaction of the AMPA receptor subunit GluR2/3 with PDZ domains regulates hippocampal long-term depression. *Proc.Natl.Acad.Sci.U.S.A.* 98 11725 PMID: 11573007

Li et al (1999) AMPA receptor-PDZ interactions in facilitation of spinal sensory synapses. *Nat.Neurosci.* 2 972 PMID: 10526335

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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