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Print Date: May 26th 2018

Certificate of Analysis

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Catalog No.: 1599 Ba

Batch No.: 1

Product Name: pep2-EVKI CAS Number: 1315378-67-6

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₆₂ H ₉₅ N ₁₃ O ₁₉			
Batch Molecular Weight:	1326.51			
Physical Appearance:	White lyophilised solid			
Net Peptide Content:	80%			
Solubility:	Soluble to 1 mg/ml in PBS (pH6.8)			
Storage:	Desiccate at -20°C			
Peptide Sequence:	Tyr-Asn-Val-Tyr-Gly-Ile-Glu-Glu-Val-Lys-Ile			
2. ANALYTICAL DATA				

HPLC:

Shows >95% purity

3. AMINO ACID ANALYSIS DATA

Amino Acid Theoretical Actual Amino Acid Theoretical Actual

Ala			Lys	1.00	1.07
Arg			Met		
Asx	1.00	1.07	Phe		
Cys			Pro		
Glx	2.00	2.16	Ser		
Gly	1.00	1.08	Thr		
His			Trp		
lle	2.00	2.07	Tyr	2.00	2.16
Leu			Val	2.00	1.97

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Product Name: pep2-EVKI

CAS Number: 1315378-67-6

Description:

Inhibitor peptide that selectively disrupts binding of the AMPA receptor subunit GluA2 (at the C-terminal PDZ site) to protein interacting with C kinase (PICK1). Does not affect binding of GluA2 to GRIP or ABP and does not increase AMPA current amplitude or affect long term depression (LTD).

Physical and Chemical Properties:

Batch Molecular Formula: C₆₂H₉₅N₁₃O₁₉ Batch Molecular Weight: 1326.51 Physical Appearance: White Iyophilised solid

Peptide Sequence:

Tyr-Asn-Val-Tyr-Gly-Ile-Glu-Glu-Val-Lys-Ile

Batch No.: 1

Storage: Desiccate at -20°C

Solubility & Usage Info:

Soluble to 1 mg/ml in PBS (pH6.8)

This product is supplied as a lyophilized solid and may be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

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Net Peptide Content: 80% (Remaining weight made up of counterions and residual water).

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Peptides in solution are much less stable than in lyophilized form. This is especially true for peptides whose sequences contain amino acids such Cys, Met,Trp, Asn, Gln, and N-terminal Glu.

Therefore we recommend storing peptides in solution for as short a time as possible. Avoid repeated freeze thaw cycles by dividing the peptide solution into aliquots and storing the aliquots at -20°C. Any portion of an aliquot unused after thawing should be discarded.

Peptides stored in solution can occasionally be susceptible to bacterial degradation. We recommend using sterile solutions or passing the peptide solution through a 0.2 μ m filter to remove potential bacterial contamination whenever possible.

References:

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

Hanley *et al* (2002) Interaction of the AMPA receptor subunit GluR2/3 with PDZ domains regulates hippocampal long-term depression. Neuron **34** 53. PMID: 11931741.

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.

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

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