

Certificate of Analysis

Print Date: May 26th 2018

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Product Name: Pep1-AGL Catalog No.: 1602 Batch No.: 1

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₄₀H₆₉N₁₁O₁₄S

Batch Molecular Weight: 960.11

Physical Appearance: White lyophilised solid

Net Peptide Content: 82%

Solubility: Soluble to 2 mg/ml in water

Storage: Desiccate at -20°C

Peptide Sequence: Ser-Ser-Gly-Met-Pro-Leu-Gly-Ala-Ala-Gly-Leu

2. ANALYTICAL DATA

HPLC: Shows >95% purity

3. AMINO ACID ANALYSIS DATA

Amino Acid	Theoretical	Actual	Amino Acid	Theoretical	Actua
Ala	2.00	1.94	Lys		
Arg			Met	1.00	1.02
Asx			Phe		
Cys			Pro	1.00	0.99
Glx			Ser	2.00	1.85
Gly	3.00	3.04	Thr		
His			Trp		
lle			Tyr		
Leu	2.00	1.94	Val		



Product Information

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Product Name: Pep1-AGL Catalog No.: 1602 Batch No.: 1

Description:

Analog of Pep1-TGL (Cat. No. 1601), a peptide containing the 'TGL' motif that corresponds to the C-terminus of the AMPA receptor GluA1 subunit.

Physical and Chemical Properties:

Batch Molecular Formula: C₄₀H₆₉N₁₁O₁₄S

Batch Molecular Weight: 960.11

Physical Appearance: White lyophilised solid

Peptide Sequence:

Ser-Ser-Gly-Met-Pro-Leu-Gly-Ala-Ala-Gly-Leu

Storage: Desiccate at -20°C

Solubility & Usage Info:

Soluble to 2 mg/ml in water

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.

Net Peptide Content: 82% (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:

Shi et al (2001) Subunit-specific rules governing AMPA receptor trafficking to synapses in hippocampal pyramidal neurons. Cell 105 331. PMID: 11348590.

Hayashi et al (2000) Driving AMPA receptors into synapses by LTP and CaMKII: requirement for GluR1 and PDZ domain interaction. Science 287 2262. PMID: 10731148.

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