

Product Name: Pep1-TGL

Catalog No.: 1601

Batch No.: 1

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₄₁H₇₁N₁₁O₁₅S
Batch Molecular Weight: 990.14
Physical Appearance: White lyophilised solid
Net Peptide Content: 87%
Solubility: Soluble to 2 mg/ml in water
Storage: Desiccate at -20°C
Peptide Sequence: Ser-Ser-Gly-Met-Pro-Leu-Gly-Ala-Thr-Gly-Leu

2. ANALYTICAL DATA

HPLC: Shows >95% purity

3. AMINO ACID ANALYSIS DATA

Amino Acid		Theoretical	Actual	Amino Acid		Theoretical	Actual
Ala		1.00	0.96	Lys			
Arg				Met	1.00	0.97	
Asx				Phe			
Cys				Pro	1.00	0.83	
Glx				Ser	2.00	2.09	
Gly	3.00	3.14		Thr	1.00	1.04	
His				Trp			
Ile				Tyr			
Leu	2.00	1.97		Val			

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Product Name: Pep1-TGL

Catalog No.: 1601

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Description:

Peptide containing the 'TGL' motif that corresponds to the C-terminus of the AMPA receptor GluA1 subunit. Analog also available.

Physical and Chemical Properties:

Batch Molecular Formula: C₄₁H₇₁N₁₁O₁₅S

Batch Molecular Weight: 990.14

Physical Appearance: White lyophilised solid

Peptide Sequence:

Ser-Ser-Gly-Met-Pro-Leu-Gly-Ala-Thr-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: 87% (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 as 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 µm 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.

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