

Certificate of Analysis

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Product Name: TRAP-6
CAS Number: 141136-83-6

Catalog No.: 3497 **Batch No.:** 12

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₃₄H₅₆N₁₀O₉
Batch Molecular Weight: 748.88
Physical Appearance: White lyophilised solid
Counter Ion: Trifluoroacetate
Solubility: Soluble to 1 mg/ml in water
Storage: Store at -20°C
Peptide Sequence: Ser-Phe-Leu-Leu-Arg-Asn

2. ANALYTICAL DATA

HPLC: Shows 98.7% purity
Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid Theoretical			Actual		
Ala			Lys		
Arg	1.00	0.99	Met		
Asx	1.00	1.00	Phe	1.00	1.00
Cys			Pro		
Glx			Ser	1.00	0.72
Gly			Thr		
His			Trp		
Ile			Tyr		
Leu	2.00	2.00	Val		

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

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Description:

TRAP-6 is a peptide fragment (residues 42-47) of protease-activated receptor 1 (PAR₁) that acts as a PAR₁ agonist. Stimulates platelet aggregation (EC₅₀ = 0.8 μM), promotes intracellular Ca²⁺ mobilization and induces rapid phosphodiesterase 3A (PDE3A) phosphorylation in vitro.

Physical and Chemical Properties:

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Batch Molecular Weight: 748.88

Physical Appearance: White lyophilised solid

Peptide Sequence:

Ser-Phe-Leu-Leu-Arg-Asn

Storage: Store at -20°C

Solubility & Usage Info:

Soluble to 1 mg/ml in water

This product is supplied in lyophilized form. It may appear as a solid, gel or film and 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.

Counter Ion: Trifluoroacetate

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:

Hunter et al (2009) Protein kinase C-mediated phosphorylation and activation of PDE3A regulates cAMP levels in human platelets. *J.Biol.Chem.* **284** 12339. PMID: 19261611.

Kaufmann et al (1999) PAR 1-type thrombin receptors are involved in thrombin-induced calcium signaling in human meningioma cells. *J.Neurooncol.* **42** 131. PMID: 10421070.

Vassallo et al (1992) Structure-function relationships in the activation of platelet thrombin receptors by receptor derived peptides. *J.Biol.Chem.* **267** 6081. PMID: 1313429.

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