

Certificate of Analysis

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Product Name: Ac9-25
CAS Number: 284040-76-2

Catalog No.: 3231 **Batch No.:** 1

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₉₉H₁₄₃N₂₃O₃₃
Batch Molecular Weight: 2183.35
Physical Appearance: White lyophilised solid
Net Peptide Content: 91%
Counter Ion: Trifluoroacetate
Solubility: Soluble to 1 mg/ml in 20% acetonitrile / water
Storage: Desiccate at -20°C
Peptide Sequence: Ac-Gln-Ala-Trp-Phe-Ile-Glu-Asn-Glu-Glu-Gln-Glu-Tyr-Val-Gln-Thr-Val-Lys

2. ANALYTICAL DATA

HPLC: Shows >98% purity
Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid Theoretical		Actual		Amino Acid Theoretical		Actual	
Ala	1.00	1.00	Lys	1.00	1.00		
Arg			Met				
Asx	1.00	1.00	Phe	1.00	0.96		
Cys			Pro				
Glx	7.00	7.15	Ser				
Gly			Thr	1.00	0.93		
His			Trp				
Ile	1.00	0.85	Tyr	1.00	0.99		
Leu			Val	2.00	1.96		

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

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Product Name: Ac9-25
CAS Number: 284040-76-2**Catalog No.:** 3231 **Batch No.:** 1**Description:**

N-terminal peptide of Annexin I (AI/Lipocortin I) that inhibits leukocyte extravasation. Acts as a formyl peptide receptor 1 (FPR1) ligand and stimulates neutrophil NADPH oxidase activation.

Physical and Chemical Properties:

Batch Molecular Formula: C₉₉H₁₄₃N₂₃O₃₃
Batch Molecular Weight: 2183.35
Physical Appearance: White lyophilised solid

Peptide Sequence:

Ac-Gln-Ala-Trp-Phe-Ile-Glu-Asn-Glu-Glu-
Gln-Glu-Tyr-Val-Gln-Thr-Val-Lys

Storage: Desiccate at -20°C**Solubility & Usage Info:**

Soluble to 1 mg/ml in 20% acetonitrile / 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: 91% (Remaining weight made up of counterions and residual water).**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:

Rabiert *et al* (2007) The N-formyl peptide receptors and the anaphylatoxin C5a receptors: an overview. *Biochimie* **89** 1089. PMID: 17428601.

Karlsson *et al* (2005) Neutrophil NADPH-oxidase activation by an annexin AI peptide is transduced by the formyl peptide receptor (FPR), whereas an inhibitory signal is generated independently of the FPR family receptors. *J.Leuko.Biol.* **78** 762.

Walther *et al* (2000) A novel ligand of the formyl peptide receptor: annexin I regulates neutrophil extravasation by interacting with the FPR. *Mol.Cell* **5** 831. PMID: 10882119.

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