



Certificate of Analysis

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Product Name: PKA inhibitor fragment (6-22) amide Catalog No.: 1904 Batch No.: 11

CAS Number: 121932-06-7

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₈₀H₁₃₀N₂₈O₂₄

Batch Molecular Weight: 1868.08

Physical Appearance: White lyophilised solid

Counter Ion: Trifluoroacetate

Solubility: Soluble to 1 mg/ml in water

Storage: Store at -20°C

Peptide Sequence: Thr-Tyr-Ala-Asp-Phe-Ile-Ala-Ser-Gly-Arg-

Thr-Gly-Arg-Arg-Asn-Ala-IIe-NH₂

2. ANALYTICAL DATA

HPLC: Shows 97.0% purity

Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid	Theoretical	Actual	Amino Acid	Theoretical	Actual
Ala	3.00	2.94	Lys		
Arg	3.00	3.00	Met		
Asx	2.00	2.05	Phe	1.00	1.01
Cys			Pro		
Glx			Ser	1.00	0.74
Gly	2.00	1.99	Thr	2.00	1.77
His			Trp		
lle	2.00	2.00	Tyr	1.00	1.01
Leu			Val		

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



Product Information

Print Date: Oct 1st 2025

Batch No.: 11

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Product Name: PKA inhibitor fragment (6-22) amide

CAS Number: 121932-06-7

Description:

PKA inhibitor fragment (6-22) amide is a potent inhibitor of cAMP-dependent protein kinase (PKA) (K_i = 2.5 nM); derived from the active portion of the heat-stable PKA inhibitor protein PKI.

Physical and Chemical Properties:

Batch Molecular Formula: $C_{80}H_{130}N_{28}O_{24}$ Batch Molecular Weight: 1868.08

Physical Appearance: White lyophilised solid

Peptide Sequence:

Thr-Tyr-Ala-Asp-Phe-IIe-Ala-Ser-Gly-Arg-Thr-Gly-Arg-Arg-Asn-Ala-IIe-NH₂ 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.

Catalog No.: 1904

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 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:

Otmakhova *et al* (2000) Inhibition of the cAMP pathway decreases early long-term potentiation at CA1 hippocampal synapses. J.Neurosci. **20** 4446. PMID: 10844013.

Glass et al (1989) Protein kinase inhibitor-(6-22)-amide peptide analogs with standard and nonstandard amino acid substitutions for phenylalanine 10. J.Biol.Chem. **264** 14579. PMID: 2760075.

Glass *et al* (1989) Primary structural determinants essential for potent inhibition of cAMP-dependent protein kinase by inhibitory peptides corresponding to the active portion of the heat-stable inhibitor protein. J.Biol.Chem. **264** 8802. PMID: 2722799.

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