

Certificate of Analysis

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Product Name: DAPK Substrate Peptide

Catalog No.: 1458

Batch No.: 2

CAS Number: 386769-53-5

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₇₀H₁₁₅N₂₅O₁₇
Batch Molecular Weight: 1578.82
Physical Appearance: White lyophilised solid
Net Peptide Content: 90%
Solubility: Soluble to 1 mg/ml in water
Storage: Desiccate at -20°C
Peptide Sequence: Lys-Lys-Arg-Pro-Gln-Arg-Arg-Tyr-Ser-Asn-Val-Phe

2. ANALYTICAL DATA

HPLC: Shows >95% purity

3. AMINO ACID ANALYSIS DATA

Amino Acid		Theoretical	Actual	Amino Acid		Theoretical	Actual
Ala				Lys	2.00	2.06	
Arg	3.00	3.00	Met				
Asx	1.00	1.05	Phe	1.00	1.01		
Cys			Pro	1.00	0.95		
Glx	1.00	0.97	Ser	1.00	0.93		
Gly			Thr				
His			Trp				
Ile			Tyr	1.00	1.01		
Leu			Val	1.00	1.01		

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

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Catalog No.: 1458

Batch No.: 2

CAS Number: 386769-53-5

Description:

Synthetic peptide substrate for death associated protein kinase (DAPK) ($K_m = 9 \mu\text{M}$).

Physical and Chemical Properties:

Batch Molecular Formula: $\text{C}_{70}\text{H}_{115}\text{N}_{25}\text{O}_{17}$

Batch Molecular Weight: 1578.82

Physical Appearance: White lyophilised solid

Peptide Sequence:

Lys-Lys-Arg-Pro-Gln-Arg-Arg-Tyr-Ser-Asn-
Val-Phe

Storage: Desiccate at -20°C

Solubility & Usage Info:

Soluble to 1 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: 90% (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 $45\text{-}60^\circ\text{C}$ 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 $0.2 \mu\text{m}$ filter to remove potential bacterial contamination whenever possible.

References:

Velentza et al (2001) A protein kinase associated with apoptosis and tumor suppression: structure, activity and discovery of peptide substrates. *J.Biol.Chem.* **276** 38956. PMID: 11483604.

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bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel: +1 612 379 2956