

Certificate of Analysis

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Product Name: Akt/SKG Substrate Peptide

Catalog No.: 1353

Batch No.: 2

CAS Number: 276680-69-4

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₃₆H₅₉N₁₃O₉
Batch Molecular Weight: 817.95
Physical Appearance: White lyophilised solid
Counter Ion: TFA
Solubility: Soluble to 1 mg/ml in water
Storage: Desiccate at -20°C
Peptide Sequence: Arg-Pro-Arg-Ala-Ala-Thr-Phe

2. ANALYTICAL DATA

HPLC: Shows >97% purity

3. AMINO ACID ANALYSIS DATA

Amino Acid Theoretical Actual			Amino Acid Theoretical Actual		
Ala	2.00	1.97	Lys		
Arg	2.00	2.13	Met		
Asx			Phe	1.00	1.03
Cys			Pro	1.00	0.98
Glx			Ser		
Gly			Thr	1.00	0.90
His			Trp		
Ile			Tyr		
Leu			Val		

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

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Product Name: Akt/SKG Substrate Peptide**Catalog No.:** 1353**Batch No.:** 2

CAS Number: 276680-69-4

Description:

Synthetic peptide suitable as a substrate for Akt/PKB. Unlike other substrates, it is not phosphorylated by p70 S6 kinase or MAP kinase activated protein kinase-1.

Physical and Chemical Properties:Batch Molecular Formula: C₃₆H₅₉N₁₃O₉

Batch Molecular Weight: 817.95

Physical Appearance: White lyophilised solid

Peptide Sequence:

Arg-Pro-Arg-Ala-Ala-Thr-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.

Counter Ion: TFA**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:

Alessi et al (1996) Molecular basis for the substrate specificity of protein kinase B; comparison with MAPKAP kinase-1 and p70 S6 kinase. *FEBS Lett.* **399** 333. PMID: 8985174.

Cutillas et al (2006) Ultrasensitive and absolute quantification of the phosphoinositide 3-kinase / Akt signal transduction pathway by mass spectrometry. *Proc.Natl.Acad.Sci.U.S.A.* **103** 8959. PMID: 16751276.

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