



Certificate of Analysis

www.tocris.com

Product Name: PKC (19-36) Catalog No.: 4058 Batch No.: 4

CAS Number: 113731-96-7

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₉₃H₁₅₉N₃₅O₂₄

Batch Molecular Weight: 2151.48

Physical Appearance: White lyophilised solid

Net Peptide Content: 60% Counter Ion: TFA

Solubility: Soluble to 2 mg/ml in water

Storage: Store at -20°C

Peptide Sequence: Arg-Phe-Ala-Arg-Lys-Gly-Ala-Leu-Arg-Gln-

Lys-Asn-Val-His-Glu-Val-Lys-Asn

2. ANALYTICAL DATA

HPLC: Shows 98% purity

Mass Spectrum: Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid	Theoretical	Actual	Amino Acid	Theoretical	Actua
Ala	2.00	1.90	Lys	3.00	3.02
Arg	3.00	3.02	Met		
Asx	2.00	2.04	Phe	1.00	1.01
Cys			Pro		
Glx	2.00	2.01	Ser		
Gly	1.00	1.02	Thr		
His	1.00	0.83	Trp		
lle			Tyr		
Leu	1.00	0.96	Val	2.00	1.94

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



Product Information

Print Date: Nov 16th 2018

www.tocris.com

Product Name: PKC (19-36) Catalog No.: 4058 Batch No.: 4

CAS Number: 113731-96-7

Description:

Pseudosubstrate peptide inhibitor of protein kinase C (IC_{50} = 0.18 μ M). Attenuates vascular hyperproliferation and hypertrophy induced by high glucose. Inhibits DNA and protein synthesis in vascular smooth muscle cells (VSMCs) in a dose-dependent manner. Negative Control also available.

Physical and Chemical Properties:

Batch Molecular Formula: $C_{93}H_{159}N_{35}O_{24}$ Batch Molecular Weight: 2151.48

Physical Appearance: White lyophilised solid

Peptide Sequence:

Arg-Phe-Ala-Arg-Lys-Gly-Ala-Leu-Arg-Gln-Lys-Asn-Val-His-Glu-Val-Lys-Asn Storage: Store at -20°C

Solubility & Usage Info:

Soluble to 2 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: 60% (Remaining weight made up of counterions and residual water).

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 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:

Yasunari et al (1996) Possible involvement of phospholipase D and protein kinase C in vascular growth induced by elevated glucose concentration Hypertension 28 159. PMID: 8707376.

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