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Certificate of Analysis

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Product Name: **[Glu^{27}]-PKC (19-36)** **Catalog No.: 4059** **Batch No.: 1**

CAS Number: 309247-49-2

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	$C_{92}H_{154}N_{32}O_{26}$
Batch Molecular Weight:	2124.43
Physical Appearance:	White lyophilised solid
Net Peptide Content:	68%
Counter Ion:	TFA
Solubility:	Soluble to 1 mg/ml in water
Storage:	Store at -20°C
Peptide Sequence:	Arg-Phe-Ala-Arg-Lys-Gly-Ala-Leu-Glu-Gln-Lys-Asn-Val-His-Glu-Val-Lys-Asn

2. ANALYTICAL DATA

HPLC:	Shows 95.8% purity
Mass Spectrum:	Consistent with structure

3. AMINO ACID ANALYSIS DATA

Amino Acid	Theoretical	Actual	Amino Acid	Theoretical	Actual
Ala	2.00	1.90	Lys	3.00	2.99
Arg	2.00	2.01	Met		
Asx	2.00	1.98	Phe	1.00	1.00
Cys			Pro		
Glx	3.00	2.97	Ser		
Gly	1.00	1.01	Thr		
His	1.00	1.03	Trp		
Ile			Tyr		
Leu	1.00	1.03	Val	2.00	1.96

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Product Name: **[Glu^{27}]-PKC (19-36)** **Catalog No.: 4059** **Batch No.: 1**

CAS Number: 309247-49-2

Description:
Inactive control for PKC (19-36) (Cat. No. 4058), a pseudosubstrate peptide inhibitor of protein kinase C.

Physical and Chemical Properties:
Batch Molecular Formula: $C_{92}H_{154}N_{32}O_{26}$
Batch Molecular Weight: 2124.43
Physical Appearance: White lyophilised solid

Peptide Sequence:

Arg-Phe-Ala-Arg-Lys-Gly-Ala-Leu-Glu-Gln-Lys-Asn-Val-His-Glu-Val-Lys-Asn

Storage: Store at -20°C

Solubility & Usage Info:
Soluble to 1 mg/ml in water

Net Peptide Content: 68% (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 µm 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.