

PKC beta pseudosubstrate

PRODUCT DESCRIPTION

PKC beta pseudosubstrate is a 72-amino-acid synthetic peptide. A synthetic peptide used as a research tool in biochemistry, pharmacology, and biomedical research. This peptide enables the study of protein-protein interactions, receptor binding, enzyme substrate specificity, and signal transduction pathways. Available in high purity (>=95% by HPLC) as a lyophilized powder for reconstitution in appropriate buffers.

PRODUCT SPECIFICATIONS

Catalog Number	BPT0317
CAS Number	172308-76-8
Molecular Weight	3993.8193 Da
Molecular Formula	C177H295N63O37S3
Purity	Peak Area by HPLC >=95%
Form	Lyophilized
Source	Synthetic (Chemical Synthesis, SPPS)
Endotoxin	N/A (Synthetic peptide)

AMINO ACID SEQUENCE

One-Letter Code:

CRQIKIWFQNRRMKWKK{-NH2}{Seq,Disulfidebridge}CRFARKGALRQKNV(Disulfidebridge:Cys1-Cys20)

Three-Letter Code:

H-Cys-Arg-Gln-Ile-Lys-Ile-Trp-Phe-Gln-Asn-Arg-Arg-Met-Lys-Trp-Lys-Lys-{-NH2}-{Seq,Disulfidebridge}-Cys-Arg-Phe-Ala-Arg-Lys-Gly-Ala-Leu-Arg-Gln-Lys-Asn-Val-OH(Disulfidebridge:Cys1-Cys20)

RESEARCH APPLICATIONS

Application	Enzyme activity
Biomarker Target	PKC Kinase
Research Area	Cell Signaling
Sub-category	Kinases, Substrates & Inhibitors

STORAGE & HANDLING

Storage Temperature	-20 deg C
Form	Lyophilized
Stability	Lyophilized product stable for 24 months at -20 deg C
Reconstitution	Reconstitute in sterile water or appropriate buffer
After Reconstitution	Aliquot and store at -20 to -80 deg C
Avoid	Repeated freeze-thaw cycles

AVAILABLE SIZES

Size Options	1 mg, 10 mg
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Usage

Research use

QUALITY CONTROL

Purity Method

HPLC, Mass Spectrometry (MS)

Identity

Confirmed by ESI-MS or MALDI-TOF

Purity

Peak Area by HPLC $\geq 95\%$

Documentation

Certificate of Analysis (CoA) available upon request