

[Ala286]-Calmodulin-Dependent Protein Kinase II (281-302) ((Ala286)-CaMK-II (281-302))

PRODUCT DESCRIPTION

[Ala286]-Calmodulin-Dependent Protein Kinase II (281-302) ((Ala286)-CaMK-II (281-302)) is a 22-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	BPT2399
CAS Number	141055-85-8
Molecular Weight	2600.0705 Da
Molecular Formula	C111H191N39O29S2
Purity	Peak Area by HPLC >=95%
Form	Lyophilized
Source	Synthetic (Chemical Synthesis, SPPS)
Endotoxin	N/A (Synthetic peptide)

AMINO ACID SEQUENCE

One-Letter Code:

MHRQEAVDCLKKFNARRKLKGA

Three-Letter Code:

H-Met-His-Arg-Gln-Glu-Ala-Val-Asp-Cys-Leu-Lys-Lys-Phe-Asn-Ala-Arg-Arg-Lys-Leu-Lys-Gly-Ala-OH

RESEARCH APPLICATIONS

Application	Enzyme activity
Biomarker Target	CaM 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
Usage	Research use

QUALITY CONTROL

Purity Method	HPLC, Mass Spectrometry (MS)
Identity	Confirmed by ESI-MS or MALDI-TOF
Purity	Peak Area by HPLC >=95%
Documentation	Certificate of Analysis (CoA) available upon request