

alpha-Conotoxin PnIA

PRODUCT DESCRIPTION

alpha-Conotoxin PnIA is a 45-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	BPT1311
CAS Number	705300-84-1
Molecular Weight	1622.8201 Da
Molecular Formula	C65H95N19O22S4
Purity	Peak Area by HPLC >=95%
Form	Lyophilized
Source	Synthetic (Chemical Synthesis, SPPS)
Endotoxin	N/A (Synthetic peptide)

AMINO ACID SEQUENCE

One-Letter Code:

GCCSLPPCAANNPDYC-NH2(Disulfidebridge:Cys2-Cys8,Cys3-Cys16)

Three-Letter Code:

H-Gly-Cys-Cys-Ser-Leu-Pro-Pro-Cys-Ala-Ala-Asn-Asn-Pro-Asp-Tyr-Cys-NH2(Disulfidebridge:Cys2-Cys8,Cys3-Cys16)

RESEARCH APPLICATIONS

Application	Ion channel modulation
Biomarker Target	Calcium/Sodium Channels
Research Area	Neuroscience
Sub-category	Conotoxins & Ion Channel Research

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 $\geq 95\%$

Documentation

Certificate of Analysis (CoA) available upon request