

u-Conotoxin GIIIA

PRODUCT DESCRIPTION

u-Conotoxin GIIIA is a 63-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	BPT2318
CAS Number	129129-65-3
Molecular Weight	2609.0384 Da
Molecular Formula	C100H170N38O32S6
Purity	Peak Area by HPLC >=95%
Form	Lyophilized
Source	Synthetic (Chemical Synthesis, SPPS)
Endotoxin	N/A (Synthetic peptide)

AMINO ACID SEQUENCE

One-Letter Code:

RDCCT{Hyp}{Hyp}KKCKDRQCK{Hyp}QRCCA-NH2(Disulfidebridge:Cys3-Cys15,Cys4-Cys20,Cys10-Cys21)

Three-Letter Code:

H-Arg-Asp-Cys-Cys-Thr-{Hyp}-{Hyp}-Lys-Lys-Cys-Lys-Asp-Arg-Gln-Cys-Lys-{Hyp}-Gln-Arg-Cys-Cys-Ala-NH2(Disulfidebridge:Cys3-Cys15,Cys4-Cys20,Cys10-Cys21)

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
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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