Biotin-Ahx-omega-Conotoxin GVIA

PRODUCT DESCRIPTION

Biotin-Ahx-omega-Conotoxin GVIA is a 44-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	BPT2329
CAS Number	151928-23-3
Molecular Weight	3382.84 Da
Molecular Formula	C136H213N41O46S7
Purity	Peak Area by HPLC >=95%
Form	Lyophilized
Source	Synthetic (Chemical Synthesis, SPPS)
Endotoxin	N/A (Synthetic peptide)

AMINO ACID SEQUENCE

One-Letter Code:

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Biotin-{Acp}CKS{Hyp}GSSCS{Hyp}TSYNCCRSCN{Hyp}YTKRCY-NH2
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Three-Letter Code:

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Biotin-{Acp}-Cys-Lys-Ser-{Hyp}-Gly-Ser-Ser-Cys-Ser-{Hyp}-Thr-Ser-Tyr-Asn-Cys-Cys-Arg-Ser-Cys-Asn-{Hyp}-Tyr-Thr-Lys-Arg-Cys-Tyr-NH2
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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 >=95%
Documentation	Certificate of Analysis (CoA) available upon request