

Atrial Natriuretic Peptide (4-24), frog

PRODUCT DESCRIPTION

Atrial Natriuretic Peptide (4-24), frog is a 42-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	BPT1606
CAS Number	118691-44-4
Molecular Weight	2272.5867 Da
Molecular Formula	C93H150N34O27S3
Purity	Peak Area by HPLC >=95%
Form	Lyophilized
Source	Synthetic (Chemical Synthesis, SPPS)
Endotoxin	N/A (Synthetic peptide)

AMINO ACID SEQUENCE

One-Letter Code:

CFGSRIDRIGAQSGMGCGRRF(Disulfidebridge:Cys1-Cys17)

Three-Letter Code:

H-Cys-Phe-Gly-Ser-Arg-Ile-Asp-Arg-Ile-Gly-Ala-Gln-Ser-Gly-Met-Gly-Cys-Gly-Arg-Arg-Phe-OH(Disulfidebridge:Cys1-Cys17)

RESEARCH APPLICATIONS

Application	Receptor binding
Biomarker Target	Natriuretic Peptide Receptors
Research Area	Cardiovascular
Sub-category	Natriuretic Peptides & Heart Failure

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