

C-Type Natriuretic Peptide (CNP) (1-22), human

PRODUCT DESCRIPTION

C-Type Natriuretic Peptide (CNP) (1-22), human is a 31-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	BPT0135
CAS Number	127869-51-6
Molecular Weight	963.1319 Da
Molecular Formula	C43H74N14O11
Purity	Peak Area by HPLC >=95%
Form	Lyophilized
Source	Synthetic (Chemical Synthesis, SPPS)
Endotoxin	N/A (Synthetic peptide)

AMINO ACID SEQUENCE

One-Letter Code:

T{Dab}{Dab}{Dab}fL{Dab}{Dab}T(Lactam:{Dab}3-Thr9)

Three-Letter Code:

Thr-{Dab}-{Dab}-{Dab}-{D-Phe}-Leu-{Dab}-{Dab}-Thr(Lactam:{Dab}3-Thr9)

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
--------------	-------------

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