

BDNF(human)

PRODUCT DESCRIPTION

BDNF(human) is a 120-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	BPT1012
CAS Number	218441-99-7
Molecular Weight	13642.5393 Da
Molecular Formula	C587H953N177O177S10
Purity	Peak Area by HPLC >=95%
Form	Lyophilized
Source	Synthetic (Chemical Synthesis, SPPS)
Endotoxin	N/A (Synthetic peptide)

AMINO ACID SEQUENCE

One-Letter Code:

MHSDPARRGELSVCDSEWVTAADKKTAVDMSGGTVTVLEKVPVSKGQLKQYFYETKCNPMGYTKEGCRGIDKRHWNSQCRTTQSYVRLTMDSKKRIGWRFIRIDTSCV
CTLTIKRGR

Three-Letter Code:

H-Met-His-Ser-Asp-Pro-Ala-Arg-Arg-Gly-Glu-Leu-Ser-Val-Cys-Asp-Ser-Ile-Ser-Glu-Trp-Val-Thr-Ala-Ala-Asp-Lys-Lys-Thr-Ala-Val-Asp-Met-Ser-Gly-Gly-Thr-Val-Thr-Val-Leu-Glu-Lys-Val-Pro-Val-Ser-Lys-Gly-Gln-Leu-Lys-Gln-Tyr-Phe-Tyr-Glu-Thr-Lys-Cys-Asn-Pro-Met-Gly-Tyr-Thr-Lys-Glu-Gly-Cys-Arg-Gly-Ile-Asp-Lys-Arg-His-Trp-Asn-Ser-Gln-Cys-Arg-Thr-Thr-Gln-Ser-Tyr-Val-Arg-Ala-Leu-Thr-Met-Asp-Ser-Lys-Lys-Arg-Ile-Gly-Trp-Arg-Phe-Ile-Arg-Ile-Asp-Thr-Ser-Cys-Val-Cys-Thr-Leu-Thr-Ile-Lys-Arg-Gly-Arg-OH

RESEARCH APPLICATIONS

Application	Receptor binding
Biomarker Target	Disulfide-bonded Target
Research Area	Pharmacology
Sub-category	Receptor Ligands & Peptide Drugs

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