

[Nle8?21,Tyr34]-pTH (1-34) amide (rat)

PRODUCT DESCRIPTION

[Nle8?21,Tyr34]-pTH (1-34) amide (rat) is a 40-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	BPT1214
CAS Number	105267-88-7
Molecular Weight	4036.6322 Da
Molecular Formula	C182H296N56O48
Purity	Peak Area by HPLC >=95%
Form	Lyophilized
Source	Synthetic (Chemical Synthesis, SPPS)
Endotoxin	N/A (Synthetic peptide)

AMINO ACID SEQUENCE

One-Letter Code:

AVSEIQL{Nle}HNLGKHLASVER{Nle}QWLRKKLQDVHNY-NH2

Three-Letter Code:

H-Ala-Val-Ser-Glu-Ile-Gln-Leu-{Nle}-His-Asn-Leu-Gly-Lys-His-Leu-Ala-Ser-Val-Glu-Arg-{Nle}-Gln-Trp-Leu-Arg-Lys-Lys-Leu-Gln-Asp-Val-His-Asn-Tyr-NH2

RESEARCH APPLICATIONS

Application	Receptor binding
Biomarker Target	PTH Receptor (PTH1R)
Research Area	Endocrinology
Sub-category	Parathyroid Hormone & Bone Metabolism

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 >=95%

Documentation

Certificate of Analysis (CoA) available upon request