

pTH-Related Protein (1-34) (human, mouse, rat)

PRODUCT DESCRIPTION

pTH-Related Protein (1-34) (human, mouse, rat) is a 34-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 ( $\geq 95\%$  by HPLC) as a lyophilized powder for reconstitution in appropriate buffers.

PRODUCT SPECIFICATIONS

|                   |                                      |
|-------------------|--------------------------------------|
| Catalog Number    | BPT1253                              |
| CAS Number        | 112540-82-6                          |
| Molecular Weight  | 4017.5464 Da                         |
| Molecular Formula | C180H287N57O48                       |
| Purity            | Peak Area by HPLC $\geq 95\%$        |
| Form              | Lyophilized                          |
| Source            | Synthetic (Chemical Synthesis, SPPS) |
| Endotoxin         | N/A (Synthetic peptide)              |

AMINO ACID SEQUENCE

One-Letter Code:

AVSEHQLLHDKGKSIQDLRRRFFLHHLIAEIHTA

Three-Letter Code:

H-Ala-Val-Ser-Glu-His-Gln-Leu-Leu-His-Asp-Lys-Gly-Lys-Ser-Ile-Gln-Asp-Leu-Arg-Arg-Arg-Phe-Phe-Leu-His-His-Leu-Ile-Ala-Glu-Ile-His-Thr-Ala-OH

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 |
|--------------|-------------|

## 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