

ACTH (3-24) (human, bovine, rat)/Tetracosactide (3-24), ACTH (3-24), bovine, human, bovine, mouse, ovine, porcine, rabbit, rat

PRODUCT DESCRIPTION

ACTH (3-24) (human, bovine, rat)/Tetracosactide (3-24), ACTH (3-24), bovine, human, bovine, mouse, ovine, porcine, rabbit, rat is a 22-amino-acid A peptide related to the melanocortin system, derived from proopiomelanocortin (POMC) or its analogs. Melanocortins signal through MC1R-MC5R receptors to regulate pigmentation, inflammation, energy homeostasis, and sexual function. Used in dermatology, endocrinology, and neuroscience research for studying melanocortin receptor pharmacology and POMC processing.

PRODUCT SPECIFICATIONS

|                   |                                      |
|-------------------|--------------------------------------|
| Catalog Number    | BPT0106                              |
| CAS Number        | 1036763-00-4                         |
| Molecular Weight  | 2683.1786 Da                         |
| Molecular Formula | C124H196N38O27S1                     |
| Purity            | Peak Area by HPLC >=95%              |
| Form              | Lyophilized                          |
| Source            | Synthetic (Chemical Synthesis, SPPS) |
| Endotoxin         | N/A (Synthetic peptide)              |

AMINO ACID SEQUENCE

One-Letter Code:

SMEHFRWGKPVGKKRRPVKVYP

Three-Letter Code:

H-Ser-Met-Glu-His-Phe-Arg-Trp-Gly-Lys-Pro-Val-Gly-Lys-Lys-Arg-Arg-Pro-Val-Lys-Val-Tyr-Pro-OH

RESEARCH APPLICATIONS

|                  |                                    |
|------------------|------------------------------------|
| Application      | Receptor binding                   |
| Biomarker Target | Melanocortin Receptors (MC1-5R)    |
| Research Area    | Endocrinology                      |
| Sub-category     | Melanocortin System & Pigmentation |

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 |