

Setmelanotide

PRODUCT DESCRIPTION

Setmelanotide -- 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    | BPT2786                              |
| CAS Number        | 920014-72-8                          |
| Molecular Weight  | 1117.3 Da                            |
| Molecular Formula | C49H68N18O9S2                        |
| Purity            | Peak Area by HPLC >=95%              |
| Form              | Lyophilized                          |
| Source            | Synthetic (Chemical Synthesis, SPPS) |
| Endotoxin         | N/A (Synthetic peptide)              |

AMINO ACID SEQUENCE

One-Letter Code:

Ac-R-C-[D-A]-H-[D-F]-R-W-C-NH2

Three-Letter Code:

Ac-Arg-Cys-D-Ala-His-D-Phe-Arg-Trp-Cys-NH2

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 |