

Apelin-36 (human)

PRODUCT DESCRIPTION

Apelin-36 (human) is a 36-amino-acid A peptide from the apelin/APJ system, an endogenous ligand for the APJ receptor (angiotensin receptor-like 1). Apelin signaling regulates cardiovascular function, fluid homeostasis, angiogenesis, and energy metabolism. Used in cardiovascular and metabolic research for studying heart failure, pulmonary hypertension, and diabetes-related vascular dysfunction.

PRODUCT SPECIFICATIONS

|                   |                                      |
|-------------------|--------------------------------------|
| Catalog Number    | BPT0099                              |
| CAS Number        | 252642-12-9                          |
| Molecular Weight  | 4195.8166 Da                         |
| Molecular Formula | C184H297N69O43S1                     |
| Purity            | Peak Area by HPLC >=95%              |
| Form              | Lyophilized                          |
| Source            | Synthetic (Chemical Synthesis, SPPS) |
| Endotoxin         | N/A (Synthetic peptide)              |

AMINO ACID SEQUENCE

One-Letter Code:

LVQPRGSRNGPGPWQGGRRKFRRQRPRLSHKGPMPPF

Three-Letter Code:

H-Leu-Val-Gln-Pro-Arg-Gly-Ser-Arg-Asn-Gly-Pro-Gly-Pro-Trp-Gln-Gly-Gly-Arg-Arg-Lys-Phe-Arg-Arg-Gln-Arg-Pro-Arg-Leu-Ser-His-Lys-Gly-Pro-Met-Pro-Phe-OH

RESEARCH APPLICATIONS

|                  |                           |
|------------------|---------------------------|
| Application      | Biological activity       |
| Biomarker Target | Peptide Target            |
| Research Area    | Biomedical Research       |
| Sub-category     | Research Peptides & Tools |

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 |