

Preproapelin (61-77) (human, bovine, mouse, rat), Apelin Precursor (61-77) (human, bovine, mouse, rat)/Apelin-17 (human, bovine, mouse, rat)

PRODUCT DESCRIPTION

Preproapelin (61-77) (human, bovine, mouse, rat), Apelin Precursor (61-77) (human, bovine, mouse, rat)/Apelin-17 (human, bovine, mouse, rat) is a 17-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	BPT0098
CAS Number	217082-57-0
Molecular Weight	2138.5404 Da
Molecular Formula	C96H156N34O20S1
Purity	Peak Area by HPLC >=95%
Form	Lyophilized
Source	Synthetic (Chemical Synthesis, SPPS)
Endotoxin	N/A (Synthetic peptide)

AMINO ACID SEQUENCE

One-Letter Code:

KFRRQRPLSHKGMPF

Three-Letter Code:

H-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