

[Tyr0]-Apelin-13 (human, bovine, mouse, rat)

PRODUCT DESCRIPTION

[Tyr0]-Apelin-13 (human, bovine, mouse, rat) is a 14-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	BPT1731
CAS Number	1815617-96-9
Molecular Weight	1713.9976 Da
Molecular Formula	C78H120N24O18S1
Purity	Peak Area by HPLC >=95%
Form	Lyophilized
Source	Synthetic (Chemical Synthesis, SPPS)
Endotoxin	N/A (Synthetic peptide)

AMINO ACID SEQUENCE

One-Letter Code:

YQRPRLSHKGMPMF

Three-Letter Code:

H-Tyr-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
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Usage

Research use

QUALITY CONTROL

Purity Method

HPLC, Mass Spectrometry (MS)

Identity

Confirmed by ESI-MS or MALDI-TOF

Purity

Peak Area by HPLC $\geq 95\%$

Documentation

Certificate of Analysis (CoA) available upon request