

[Ala18] Endothelin-1, human

PRODUCT DESCRIPTION

[Ala18] Endothelin-1, human is a 21-amino-acid A peptide from the endothelin family, one of the most potent vasoconstrictors known. Endothelins signal through ETA and ETB receptors to regulate vascular tone, cell proliferation, and fibrosis. Widely used in cardiovascular, pulmonary, and renal research for studying vasoconstriction, pulmonary hypertension, and the development of endothelin receptor antagonists.

PRODUCT SPECIFICATIONS

Catalog Number	BPT2520
Molecular Weight	2451.9178 Da
Molecular Formula	C108H163N25O30S5
Purity	Peak Area by HPLC >=95%
Form	Lyophilized
Source	Synthetic (Chemical Synthesis, SPPS)
Endotoxin	N/A (Synthetic peptide)

AMINO ACID SEQUENCE

One-Letter Code:

CSCSSLMDKECVYFCHLAIIW

Three-Letter Code:

H-Cys-Ser-Cys-Ser-Ser-Leu-Met-Asp-Lys-Glu-Cys-Val-Tyr-Phe-Cys-His-Leu-Ala-Ile-Ile-Trp-OH

RESEARCH APPLICATIONS

Application	Receptor binding
Biomarker Target	Endothelin Receptors (ETA/ETB)
Research Area	Cardiovascular
Sub-category	Endothelin System & Vasoconstriction

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