

Big Endothelin -1 (1-39), porcine

PRODUCT DESCRIPTION

Big Endothelin -1 (1-39), porcine is a 66-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	BPT2515
CAS Number	124932-61-2
Molecular Weight	4383.9667 Da
Molecular Formula	C193H289N49O58S5
Purity	Peak Area by HPLC >=95%
Form	Lyophilized
Source	Synthetic (Chemical Synthesis, SPPS)
Endotoxin	N/A (Synthetic peptide)

AMINO ACID SEQUENCE

One-Letter Code:

CSCSSSLMDKECVYFCHLDIIWVNTPEHIVPYGLGSPSRSDisulfidebridge:Cys1-Cys15, Cys3-Cys11

Three-Letter Code:

H-Cys-Ser-Cys-Ser-Ser-Leu-Met-Asp-Lys-Glu-Cys-Val-Tyr-Phe-Cys-His-Leu-Asp-Ile-Ile-Trp-Val-Asn-Thr-Pro-Glu-His-Ile-Val-Pro-Tyr-Gly-Leu-Gly-Ser-Pro-Ser-Arg-Ser-OHDisulfidebridge:Cys1-Cys15, Cys3-Cys11

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
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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