

Lanreotide Impurity X (1)

PRODUCT DESCRIPTION

Lanreotide Impurity X (1) is a 71-amino-acid synthetic peptide. A synthetic peptide used as a research tool in biochemistry, pharmacology, and biomedical research. This peptide enables the study of protein-protein interactions, receptor binding, enzyme substrate specificity, and signal transduction pathways. Available in high purity (>=95% by HPLC) as a lyophilized powder for reconstitution in appropriate buffers.

PRODUCT SPECIFICATIONS

Catalog Number	BPT1895
Molecular Weight	2192.6412 Da
Molecular Formula	C108H138N22O20S4
Purity	Peak Area by HPLC >=95%
Form	Lyophilized
Source	Synthetic (Chemical Synthesis, SPPS)
Endotoxin	N/A (Synthetic peptide)

AMINO ACID SEQUENCE

One-Letter Code:

{D-2-Nal}CYWKVCT{-NH2}{Seq,Disulfidebridge}{D-2-Nal}CYWKVCT-NH2(Disulfidebridge:Cys2-Cys12,Cys7-Cys17)

Three-Letter Code:

H-{D-2-Nal}-Cys-Tyr-{D-Trp}-Lys-Val-Cys-Thr-{-NH2}-{Seq,Disulfidebridge}-{D-2-Nal}-Cys-Tyr-{D-Trp}-Lys-Val-Cys-Thr-NH2(Disulfidebridge:Cys2-Cys12,Cys7-Cys17)

RESEARCH APPLICATIONS

Application	Receptor binding
Biomarker Target	Somatostatin Receptors (SSTR1-5)
Research Area	Endocrinology
Sub-category	Somatostatin & Growth Hormone Regulation

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