

[D-Phe7, D-Trp10]-Somatostatin 14 (7-14)

PRODUCT DESCRIPTION

[D-Phe7, D-Trp10]-Somatostatin 14 (7-14) is a 29-amino-acid A peptide related to the somatostatin family, a cyclic peptide hormone that inhibits the secretion of growth hormone, insulin, glucagon, and other hormones through SSTR1-5 receptors. Somatostatin analogs are clinically used for treating acromegaly and neuroendocrine tumors. Used in endocrinology and oncology research for studying hormonal regulation, tumor growth inhibition, and receptor pharmacology.

PRODUCT SPECIFICATIONS

Catalog Number	BPT2686
Molecular Weight	1049.2197 Da
Molecular Formula	C49H64N10O12S2
Purity	Peak Area by HPLC >=95%
Form	Lyophilized
Source	Synthetic (Chemical Synthesis, SPPS)
Endotoxin	N/A (Synthetic peptide)

AMINO ACID SEQUENCE

One-Letter Code:

fCYwKTCT(Disulfidebridge:Cys2-Cys7)

Three-Letter Code:

H-{D-Phe}-Cys-Tyr-{D-Trp}-Lys-Thr-Cys-Thr-OH(Disulfidebridge:Cys2-Cys7)

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