

Calcitonin, porcine

PRODUCT DESCRIPTION

Calcitonin, porcine is a 55-amino-acid A peptide related to the calcitonin/CGRP superfamily, involved in calcium homeostasis, bone metabolism, vasodilation, and nociception. Used in endocrinology and neuroscience research to study calcitonin receptor (CTR) and CGRP receptor (CLR/RAMP1) signaling, with applications in osteoporosis, migraine, and pain research.

PRODUCT SPECIFICATIONS

Catalog Number	BPT2509
CAS Number	12321-44-7
Molecular Weight	3604.0103 Da
Molecular Formula	C159H232N46O45S3
Purity	Peak Area by HPLC >=95%
Form	Lyophilized
Source	Synthetic (Chemical Synthesis, SPPS)
Endotoxin	N/A (Synthetic peptide)

AMINO ACID SEQUENCE

One-Letter Code:	CSNLSTCVLSAYWRNLNNFHRFSGMGFGPETP-NH2(Disulfidebridge:Cys1-Cys7)
Three-Letter Code:	H-Cys-Ser-Asn-Leu-Ser-Thr-Cys-Val-Leu-Ser-Ala-Tyr-Trp-Arg-Asn-Leu-Asn-Asn-Phe-His-Arg-Phe-Ser-Gly-Met-Gly-Phe-Gly-Pro-Glu-Thr-Pro-NH2(Disulfidebridge:Cys1-Cys7)

RESEARCH APPLICATIONS

Application	Receptor binding
Biomarker Target	Calcitonin/CGRP Receptors
Research Area	Endocrinology
Sub-category	Calcitonin/CGRP & Bone Metabolism

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