

[Ala(3-CN)5] oxytocin

PRODUCT DESCRIPTION

[Ala(3-CN)5] oxytocin is a 36-amino-acid A peptide related to the oxytocin/vasopressin neuropeptide family, involved in social bonding, parturition, lactation, and neuroendocrine regulation. Signals through oxytocin receptors (OTR) in the brain and peripheral tissues. Used in reproductive biology, social neuroscience, and behavioral pharmacology research.

PRODUCT SPECIFICATIONS

Catalog Number	BPT1867
Molecular Weight	989.1695 Da
Molecular Formula	C43H64N12O11S2
Purity	Peak Area by HPLC >=95%
Form	Lyophilized
Source	Synthetic (Chemical Synthesis, SPPS)
Endotoxin	N/A (Synthetic peptide)

AMINO ACID SEQUENCE

One-Letter Code:

CYIQ{Ala(3-CN)}CPLG-NH2(Disulfidebridge:Cys1-Cys6)

Three-Letter Code:

H-Cys-Tyr-Ile-Gln-{Ala(3-CN)}-Cys-Pro-Leu-Gly-NH2(Disulfidebridge:Cys1-Cys6)

RESEARCH APPLICATIONS

Application	Receptor binding
Biomarker Target	Oxytocin Receptor (OTR)
Research Area	Reproductive Biology
Sub-category	Oxytocin & Social Behavior

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