

[Leu3] oxytocin

PRODUCT DESCRIPTION

[Leu3] oxytocin is a 32-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    | BPT2293                              |
| Molecular Weight  | 1007.1847 Da                         |
| Molecular Formula | C43H66N12O12S2                       |
| Purity            | Peak Area by HPLC >=95%              |
| Form              | Lyophilized                          |
| Source            | Synthetic (Chemical Synthesis, SPPS) |
| Endotoxin         | N/A (Synthetic peptide)              |

AMINO ACID SEQUENCE

One-Letter Code:

CYLLQNCPLG-NH2(Disulfidebridge:Cys1-Cys6)

Three-Letter Code:

H-Cys-Tyr-Leu-Gln-Asn-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 |