

## Oxytocin-neurophysin 1 (OXT) Recombinant Protein | OXT recombinant protein

Recombinant Human Oxytocin-neurophysin 1 (OXT)

CATALOG #  
**AAA113579**

HOST  
**E Coli or Yeast or Baculovirus or Mammalian Cell**

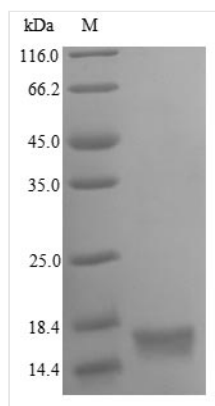
### PRODUCT SYNONYMS

Oxytocin-neurophysin 1 (OXT); Recombinant Human Oxytocin-neurophysin 1 (OXT); Oxytocin-neurophysin 1; OT-NPICleaved into the following 2 chains; 1. Oxytocin; Ocytocin; Neurophysin 1; OXT recombinant protein

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                    | E Coli or Yeast or Baculovirus or Mammalian Cell                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Purity/Purification     | Greater or equal to 85% purity as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Form/Format             | Lyophilized or liquid (Format to be determined during the manufacturing process)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Sequence Positions      | 32-125aa; Partial                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Sequence                | AAPDLDVRLK LPCGPGGKGR CFGPNICAE ELGCFVGTAE ALRCQEENYL PSPCQSGQKA CGSGGRC AVL<br>GLCCSPDGCH ADPACDAEAT FSQR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Sequence Length         | 125                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Species                 | Homo sapiens (Human)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Production Note         | <b>Special Offer:</b> The E Coli, Yeast host-expressed protein is manufactured from a stock plasmid containing the protein gene. E Coli, Yeast host-expressed protein is stocked in different unit sizes ranging from as small as 10 ug to as large as 1 mg. Bulk inventory is also available. The E Coli, Yeast host-expressed protein has been ordered over and over again by researchers and has stood the test of time as both a robust protein and important target for the research community. It is part of our new program to make our most popular protein targets and corresponding hosts available in expanded unit sizes and with a quick processing time. Select E Coli, Yeast host-expressed protein for the fastest delivery among all hosts. Please contact our <b>or email to</b> for more details. |
| Preparation and Storage | Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

### IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

|                                                         |                                                                                                                                        |
|---------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for OXT recombinant protein | Neurophysin 1 specifically binds oxytocin.<br>Oxytocin causes contraction of the smooth muscle of the uterus and of the mammary gland. |
|---------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                          |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 4505537                                                                                                                                  |
| NCBI GeneID                      | 5020                                                                                                                                     |
| NCBI Accession #                 | NP_000906.1                                                                                                                              |
| NCBI GenBank Nucleotide #        | NM_000915.3                                                                                                                              |
| UniProt Accession #              | P01178; Q3MIG0                                                                                                                           |
| Molecular Weight                 | 11.6 kDa                                                                                                                                 |
| NCBI Official Full Name          | oxytocin-neurophysin 1 preproprotein                                                                                                     |
| NCBI Official Synonym Full Names | oxytocin/neurophysin I prepropeptide                                                                                                     |
| NCBI Official Symbol             | OXT                                                                                                                                      |
| NCBI Official Synonym Symbols    | OT; OT-NPI; OXT-NPI                                                                                                                      |
| NCBI Protein Information         | oxytocin-neurophysin 1; neurophysin I; oxytocin, prepropeptide; oxytocin, prepro- (neurophysin I); oxytocin-neurophysin I, preproprotein |
| UniProt Protein Name             | Oxytocin-neurophysin 1                                                                                                                   |
| UniProt Gene Name                | OXT                                                                                                                                      |
| UniProt Synonym Gene Names       | OT; OT-NPI                                                                                                                               |
| UniProt Entry Name               | NEU1_HUMAN                                                                                                                               |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.