

# Recombinant Human OXT protein (rFc Tag)

Catalog Number: Eg2237

## Basic Information

**Species:**  
Human**Purity:**  
>90 %, SDS-PAGE**Tag:**  
rFc Tag

## Technical Specifications

**Purity:**

&gt;90 %, SDS-PAGE

**Endotoxin Level:**

&lt;1.0 EU/ µg protein, LAL method

**Source:**

HEK293-derived Human OXT protein Ala32-Arg125 (Accession# P01178) with a rabbit IgG Fc tag at the N-terminus.

**GeneID:**

5020

**Accession:**

P01178

**Predicted Molecular Mass:**

36.8 kDa

**SDS-PAGE:****Formulation:**

Lyophilized from sterile PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

## Biological Activity

Not tested

## Storage and Shipping

**Storage:**

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

**Shipping:**

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

## Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

## Background

Oxytocin (OXT) is a neuropeptide involved in social-approach behaviors in humans and others mammals. OXT is located on chromosome 20p13 and codes for a precursor protein that is synthesized to produce oxytocin and neurophysin I, and neurophysin I is the carrier protein for oxytocin. Oxytocin causes contraction of the smooth muscle of the uterus and of the mammary gland. Acts by binding to oxytocin receptor (OXTR).

## References

1. Haas, Brian W et al. Proceedings of the National Academy of Sciences of the United States of America vol. 113,27
2. Rao, V V et al. Cytogenetics and cell genetics vol. 61,4 (1992): 271-3.
3. Xu, Yang et al. Journal of human genetics vol. 53,7 (2008): 637-643.
4. Dutertre, Sébastien et al. The Journal of biological chemistry vol. 283,11 (2008): 7100-8.

## Synonyms

Neurophysin 1, Oxytocin Neurophysin 1, Oxytocin, Oxytocin neurophysin 1, Oxytocin-neurophysin 1

## **Selected Validation Data**

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**For technical support and original validation data for this product please contact**

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