

For Research Use Only

Recombinant Human OXT protein (mFc Tag)



Catalog Number: Eg2238

Basic Information

Species:
Human

Purity:
>90 %, SDS-PAGE
>90 %, SEC-HPLC

Tag:
mFc Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE
>90 %, SEC-HPLC

Endotoxin Level:
<0.1 EU/ μ g protein, LAL method

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

GeneID:
5020

Accession:
P01178

Predicted Molecular Mass:
37.3 kDa

SDS-PAGE:
33-48 kDa, reducing (R) conditions

Formulation:
Lyophilized from 0.22 μ m filtered solution in 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), a nine-amino-acid peptide produced in the hypothalamus and released by the posterior pituitary, is well-known for its actions in parturition, lactation, and social behavior. Oxytocin causes contraction of the smooth muscle of the uterus and of the mammary gland and acts by binding to oxytocin receptor (OXTR).

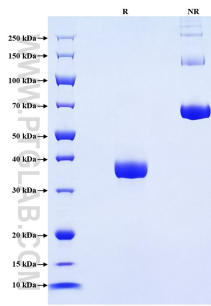
References

1. Erwei Li, et al. (2024) Nature. 625(7993):175-180.
2. Sébastien Dutertre, et al. (2008) J Biol Chem. 283(11):7100-8.

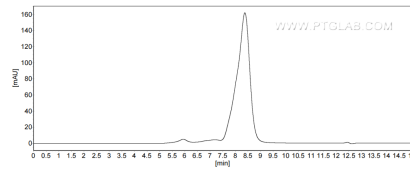
Synonyms

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

Selected Validation Data



Purity of Recombinant Human OXT was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.



The purity of Human OXT was greater than 90% as determined by SEC-HPLC.

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

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