

For Research Use Only

# Recombinant Human TNF-beta protein (His Tag)



Catalog Number: Eg0836

## Basic Information

**Species:**  
Human

**Purity:**  
>90 %, SDS-PAGE

**Tag:**  
His Tag

## Technical Specifications

**Purity:**

>90 %, SDS-PAGE

**Endotoxin Level:**

<0.1 EU/  $\mu$ g protein, LAL method

**Source:**

CHO-derived Human TNF-beta protein Leu35-Leu205 (Accession# P01374) with a His tag at the C-terminus.

**GeneID:**

4049

**Accession:**

P01374

**Predicted Molecular Mass:**

19.5 kDa

**SDS-PAGE:**

18-22 kDa, reducing (R) conditions

**Formulation:**

Lyophilized from 0.22  $\mu$ 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

TNF beta also known as lymphotoxin alpha (LTA), is a member of the tumor necrosis factor family, and is a cytokine produced by lymphocytes. TNF Beta is highly inducible, secreted, and forms heterotrimers with lymphotoxin-beta which anchor lymphotoxin-alpha to the cell surface. TNF Beta also mediates a large variety of inflammatory, immunostimulatory, and antiviral responses, is involved in the formation of secondary lymphoid organs during development and plays a role in apoptosis.

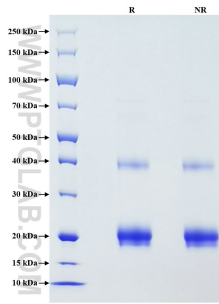
## References

1. G E Nedwin. et al. (1985) Nucleic Acids Res. 13(17):6361-73.
2. Flavia Calmon-Hamaty. et al. (2011) Arthritis Res Ther. 13(4):232.
3. Judith Bauer. et al. (2012) Dig Dis. 30(5):453-68.

## Synonyms

LTA, LT alpha, Lymphotoxin alpha, Lymphotoxin-alpha, TNF beta

## Selected Validation Data



Purity of Recombinant Human TNF-beta 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.

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

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