

RP01977

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# Recombinant Human TNF-beta Protein

Catalog No.: RP01977 **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
CHO Cells	4049	P01374

**Tags**  
C-6His

### Synonyms

LTA; TNFB; TNFSF1; Lymphotoxin-alpha; LT-alpha; TNF-beta; Tumor necrosis factor ligand superfamily member 1

## Product Information

Source	Purification
	≥ 95 % as determined by SDS-PAGE.

**Endotoxin**  
< 0.01 EU/μg of the protein by LAL method

**Formulation**  
Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.

**Reconstitution**  
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Contact



[www.abclonal.com](http://www.abclonal.com)

## Background

Tumor Necrosis Factor  $\beta$  (TNF- $\beta$ ) is a secreted protein belonging to the tumor necrosis factor family. TNF- $\beta$  binds to TNFRSF1A/TNFR1, TNFRSF1B/TNFR and TNFRSF14/HVEM in homotrimeric form, binds to TNFRSF3/LTBR in heterotrimeric form with LT $\beta$ . TNF- $\beta$  forms heterotrimers with lymphotoxin-beta, which anchors TNF- $\beta$  to the cell surface. TNF- $\beta$  mediates the inflammatory, immunostimulatory, and antiviral response, involves in the formation of second lymphoid organs during development, has a role in apoptosis. TNF- $\beta$  is produced by lymphocytes and cytotoxic for a variety of tumor cells in vitro and in vivo.

## Basic Information

### Description

Recombinant Human TNF-beta Protein is produced by CHO Cells expression system. The target protein is expressed with sequence (Leu35-Leu205) of Human TNF-beta (Accession #NP\_000586.2) fused with His at the C-terminus..

### Bio-Activity

### Shipping

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

### Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

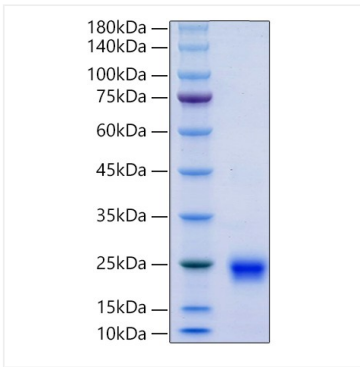
### Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.

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## Validation Data

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Recombinant Human TNF-beta  
Protein was determined by SDS-  
PAGE under reducing conditions with  
Coomassie Blue.