

# Biotinylated Recombinant Human TNF-alpha Protein

Catalog No.: RP02081B **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Human	7124	P01375

### Tags

C-His&Avi

### Synonyms

TNF; DIF; TNF-alpha; TNFA; TNFSF2; TNLG1F; tumor necrosis factor; TNF- $\alpha$ ; DIF; TNF-alpha; TNFA; TNFSF2; TNLG1F; TNF alpha

## Product Information

Source	Purification
HEK293 cells	> 95% by Tris-Bis PAGE;> 95% by SEC-HPLC

Calculated MW	Observed MW
20.3 kDa	21-24 kDa

### Endotoxin

< 1 EU/ $\mu$ g of the protein by LAL method.

### Formulation

Lyophilized from a 0.22  $\mu$ m filtered solution of PBS, pH 7.4.

### Reconstitution

Centrifuge the tube 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

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## Background

Tumor necrosis factor alpha (TNF-alpha), also known as cachectin and TNFSF2, is the prototypic ligand of the TNF superfamily. It is a pleiotropic molecule that plays a central role in inflammation, immune system development, apoptosis, and lipid metabolism. Cytokine that binds to TNFRSF1A/TNFR1 and TNFRSF1B/TNFR. It is mainly secreted by macrophages and can induce cell death of certain tumor cell lines. It is potent pyrogen causing fever by direct action or by stimulation of interleukin-1 secretion and is implicated in the induction of cachexia, Under certain conditions it can stimulate cell proliferation and induce cell differentiation.

## Basic Information

### Description

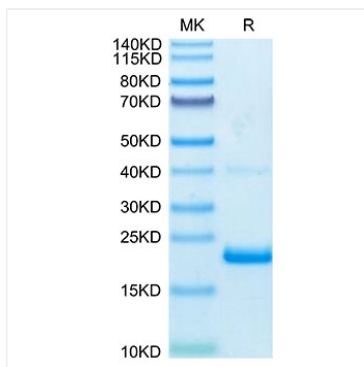
Biotinylated Recombinant Human TNF-alpha Protein is produced by Expi293 expression system. The target protein is expressed with sequence (Val77-Leu233 ) of Human TNF-alpha fused with a His and Avi tag at the C-terminal.

### Bio-Activity

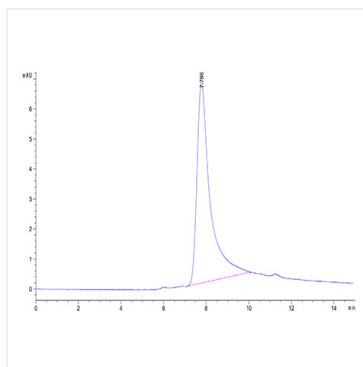
### Storage

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.

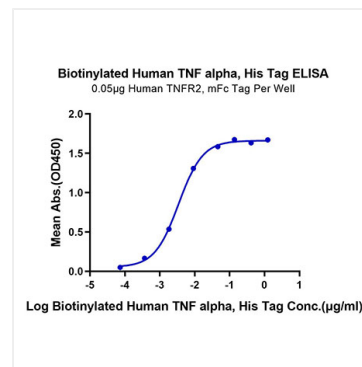
## Validation Data



Biotinylated Human TNF alpha on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.



The purity of Biotinylated Human TNF alpha is greater than 95% as determined by SEC-HPLC.



Immobilized Human TNF R2, mFc Tag at 0.5µg/ml (100µl/Well) on the plate. Dose response curve for Biotinylated Human TNF alpha, His Tag with the EC<sub>50</sub> of 3.5ng/ml determined by ELISA.