

# **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;TNFA;TNFSF2;TNLG1F;TNF alpha

## **Product Information**

**Source** Purification HEK293 cells ≥ 95 % as

determined by Tris-Bis PAGE;≥ 95 % as determined by 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 µm 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 stablizer (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/TNFBR. 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**

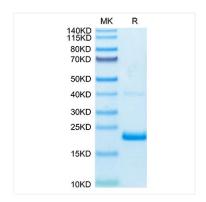
#### Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80°C up to 1 year from the date of receipt.

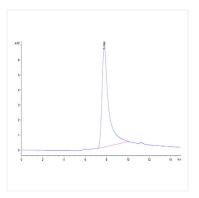
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

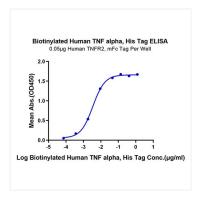
## **Validation Data**



Biotinylated Recombinant Human TNF-alpha Protein was determined by Tris-Bis PAGE under reducing conditions.



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



Immobilized Human TNF R2, mFc Tag at  $0.5\mu g/ml$  (100 $\mu l/Well$ ) 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.