

Biotinylated Recombinant Human TNF-alpha Protein

Catalog No.: RP02081B **Recombinant**

Sequence Information

Species Human **Gene ID** 7124 **Swiss Prot** P01375

Tags

C-His&Avi

Synonyms

TNF; DIF; TNF-alpha; TNFA; TNFSF2; TNLG1F; tumor necrosis factor;TNF- α ;DIF;TNF-alpha;TNFA;TNFSF2;TNLG1F;TNF alpha

Product Information

Source

HEK293 cells

Purification

\geq 95 % as determined by Tris-Bis PAGE; \geq 95 % as determined by HPLC.

Calculated MW

20.3 kDa

Observed MW

21-24 kDa

Endotoxin

< 1 EU/ μ g of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μ 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 freeze/thaw cycles.

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/TNFRB. 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

Shipping

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

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.

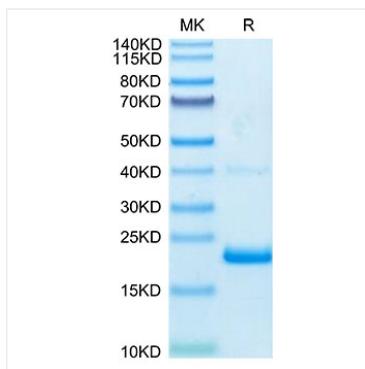
Operational Notes

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

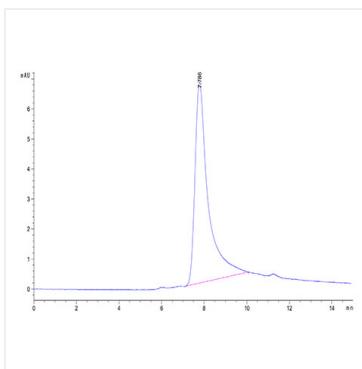
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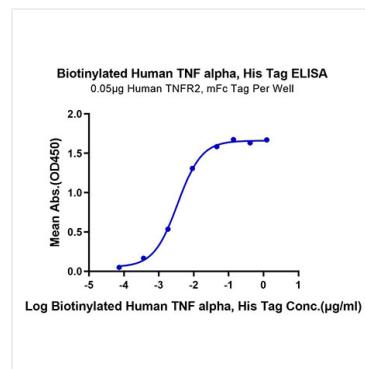
Validation Data



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 0.5μg/ml (100μl/Well) on the plate. Dose response curve for Biotinylated Human TNF alpha, His Tag with the EC₅₀ of 3.5ng/ml determined by ELISA.