Biotinylated Recombinant Human TNF-alpha Protein

Catalog No.: RP02081B

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

Calculated MW
20.3 kDa

Observed MW
21-24 kDa

Endotoxin
< 1 EU/μg 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.

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.

Activity

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

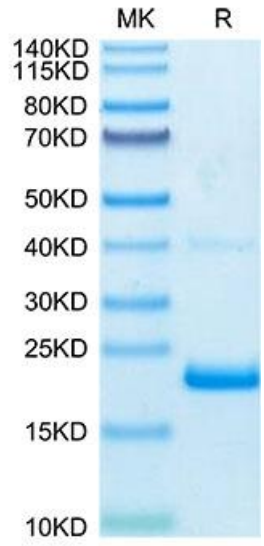
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

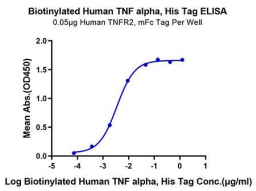
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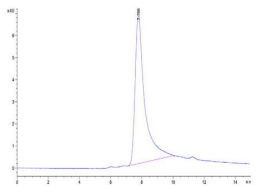
Validation Data



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



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_{50} of 3.5ng/ml determined by ELISA.



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