

RP02081B

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Biotinylated Recombinant Human TNF-alpha Protein

Catalog No.: RP02081B

Recombinant

1 Publications

Sequence Information

Species	Gene ID	Swiss Prot
HEK293 cells	7124	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

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.

Purification

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

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.

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

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.

Operational Notes

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

Storage

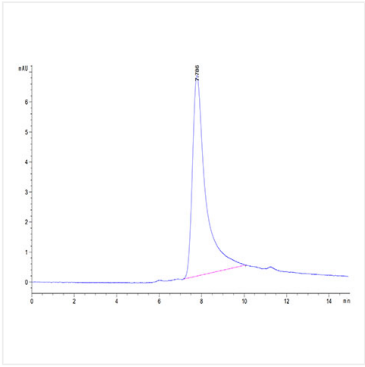
Store at -20°C . Avoid repeated freeze/thaw cycles.

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.

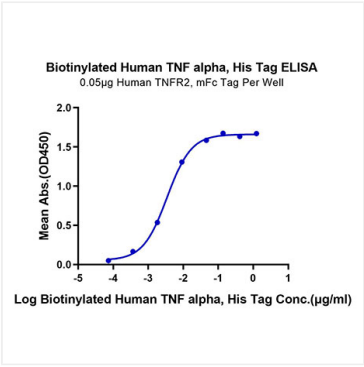
Contact



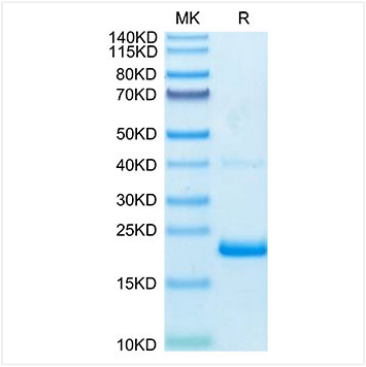
www.abclonal.com



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.



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