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Recombinant Rhesus macaque TNF-alpha Protein

Catalog No.: RP00821 Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Rhesus Macaque	3605	P79337

Tags
C-8His

Synonyms
TNF;TNFA; TNFSF2;Tumor necrosis factor;Cachectin TNF-alpha Tumor necrosis factor ligand superfamily member 2 (TNF-a)

Product Information

Source	Purification
HEK293 cells	≥ 90 % as determined by SDS-PAGE.

Calculated MW	Observed MW
18.35 kDa	15-25kDa

Endotoxin
< 0.01 EU/μg of the protein by LAL method.

Formulation
Lyophilized from a 0.2 μm filtered solution of 20mM PB, pH7.4.Contact us for customized product form or formulation.

Reconstitution
Centrifuge the vial 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

TNF-alpha,Cytokine that binds to TNFRSF1A/TNFR1 and TNFRSF1B/TNFBR, activating the tumor necrosis factor-mediated (TNF) signaling pathway. The TNF signaling pathway acts as a master regulator of the immune system, which either 1 promotes cell survival and inflammation by activating the canonical NF-kappa-B pathway or 2 trigger programmed cell death (apoptosis and necroptosis). Impairs regulatory T-cells (Treg) function in individuals with rheumatoid arthritis via FOXP3 dephosphorylation: acts by up-regulating the expression of protein phosphatase 1 (PP1), which dephosphorylates the key 'Ser-418' residue of FOXP3, thereby inactivating FOXP3 and rendering Treg cells functionally defective. Key mediator of cell death in the anticancer action of BCG-stimulated neutrophils in combination with DIABLO/SMAC mimetic in the RT4v6 bladder cancer cell line .Induces insulin resistance in adipocytes via inhibition of insulin-induced IRS1 tyrosine phosphorylation and insulin-induced glucose uptake. Induces GKAP42 protein degradation in adipocytes which is partially responsible for TNF-induced insulin resistance .Plays a role in angiogenesis by inducing VEGF production synergistically with IL1B and IL6.Promotes osteoclastogenesis and therefore mediates bone resorption.

Basic Information

Description

Recombinant Rhesus macaque TNF-alpha Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Val77-Leu233) of mouse M-CSF/CSF-1 (Accession #P79337) fused with a 8×His tag at the C-terminus.

Bio-Activity

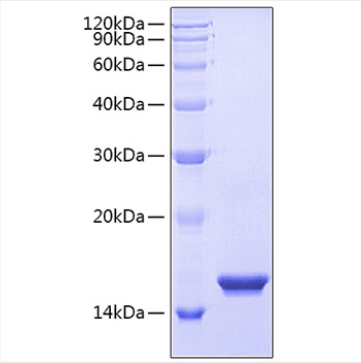
Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃
Avoid repeated freeze/thaw cycles.

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

* 为了您的安全和健康，请穿实验服并戴一次性手套操作。

Validation Data



Recombinant Human IL-17/IL-17A Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.