

Recombinant Human TNF alpha

Catalog Number: HZ-1014

HEK293 expressed

Endotoxin-free

Animal-component free

Technical Specifications

Species: human	Purity: >95%	Formulation: 1x PBS, See Certificate of Analysis for details
Expression: HEK293	Endotoxin: <1 EU/μg	Gene ID: 7124
Activity: Typically ≤ 0.5 ng/mL EC50	Molecular Mass: 17 kDa, non-disulfide bonded homotrimer, glycosylated	

Reconstitution Buffer

Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein in sterile
1xPBS containing 0.1% endotoxin-free recombinant human serum albumin (HSA).

Stability and Storage

Lyophilized proteins are stable for 1 year from the date of receipt if stored between (-20°C) and (-80°C). Upon reconstitution we recommend that the solution can be stored at (4°C) for short term or at (-20°C) to (-80°C) for long term. Repeated freeze thaw cycles should be avoided with reconstituted products.

Background

TNF, as also known as TNF-alpha, or cachectin, is a multifunctional proinflammatory cytokine that belongs to the tumor necrosis factor (TNF) superfamily. It is expressed as a 26 kDa membrane-bound protein and free soluble 17 kDa monomer, which forms homotrimers in circulation. It is produced mostly by activated macrophages, CD4+ lymphocytes, NK cells, neutrophils, eosinophils, and neurons. This cytokine is involved in the regulation of a wide spectrum of biological processes including cell proliferation, differentiation, apoptosis, lipid metabolism, and coagulation (PMID: 20194223).

Synonyms

Cachectin, DIF, TNF, TNF a, TNF alpha, TNFA, TNFSF2, Tumor necrosis factor

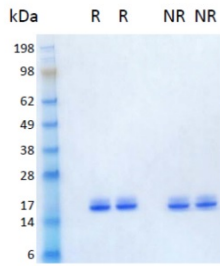
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or
1(312) 455-8498 (outside USA)

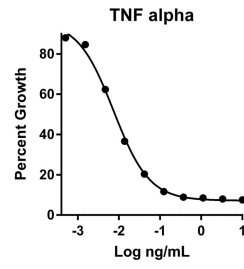
E: proteintech@ptglab.com
W: ptglab.com

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Selected Validation Data



The protein was resolved by SDS-polyacrylamide gel electrophoresis and the gel was stained with Coomassie blue.



The activity was determined by the dose-dependent cytotoxicity of the TNF alpha sensitive cell line L-929 in the presence of Actinomycin D using Promega CellTiter96® Aqueous Non-Radioactive Cell Proliferation Assay