

Datasheet for ABIN6700752

TNF alpha Protein

1 Image



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Overview

Quantity:	5 µg
Target:	TNF alpha
Origin:	Rat
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Application:	SDS-PAGE (SDS)

Product Details

Purpose:	Rat Tumor Necrosis Factor alpha Recombinant Protein
Purification:	Tumor Necrosis Factor alpha purity was determined to be greater than 95% as determined by analysis by UV-Spectroscopy at 280nm and by reducing and non-reducing SDS-pAGE.
Purity:	95,00%
Endotoxin Level:	Measured by LAL is typically ≤ 1 EU/µg protein.
Biological Activity Comment:	The activity is determined by the cytolysis of mouse L929 cells in the presence of Actinomycin D and is typically less than 0.05 ng/mL.

Target Details

Target:	TNF alpha
Alternative Name:	Tnf (TNF alpha Products)
Background:	Synonyms: TNFSF2, Cachectin, DIF, Necrosin, Cytotoxin, Cachexin, TNF-alpha, Tumor necrosis factor ligand superfamily member 2

Target Details

Background: Tumor Necrosis Factor alpha (TNF α) is an inflammatory cytokine secreted by macrophages, monocytes, neutrophils, T cells, NK-cells following their stimulation by bacterial LPS. TNF α activates signals through two receptors, TNF-R1, which is expressed on most cell types, and TNF-R2, which is expressed mainly on immune cells. TNF α can have many functions including, to stimulate of phagocytosis in macrophages, to chemoattract neutrophils, to increase insulin resistance and to induce fever. Recombinant rat TNF α is a non-glycosylated protein, containing 157 amino acids, with a molecular weight of 17.3 kDa.

UniProt:	P16599
Pathways:	NF-kappaB Signaling , Apoptosis , Caspase Cascade in Apoptosis , TLR Signaling , Cellular Response to Molecule of Bacterial Origin , Regulation of Leukocyte Mediated Immunity , Positive Regulation of Immune Effector Process , Production of Molecular Mediator of Immune Response , Positive Regulation of Endopeptidase Activity , Hepatitis C , Protein targeting to Nucleus , Inflammasome

Application Details

Application Notes:	Other: User Optimized Application_Note: Tumor Necrosis Factor alpha Recombinant Protein has been tested by SDS-PAGE and is suitable as a control for polyclonal or monoclonal anti-Tumor Necrosis Factor alpha in immunological assays.
Restrictions:	For Research Use only

Handling

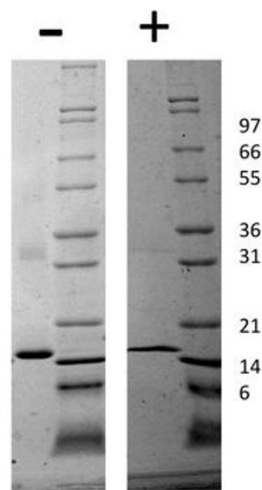
Format:	Lyophilized
Reconstitution:	Reconstitution_Buffer: Restore with deionized water (or equivalent) Reconstitution_Volume: 5 μ L (5-50 μ L)
Buffer:	Lyophilized in 10 mM sodium phosphate, 50 mM sodium chloride, pH 7.5.
Preservative:	Without preservative
Storage:	4 °C,-20 °C
Storage Comment:	Store vial at 4° C prior to restoration. Dilute only prior to immediate use. Maintain sterility. This product DOES NOT contain preservative. DO NOT VORTEX. We recommend adding a carrier protein such as HSA or BSA to 0.1% (i.e. 1.0 mg/mL). For best results aliquot contents and freeze at -20° C or colder. Avoid cycles of freezing and thawing. Centrifuge vial before each

Handling

opening to dislodge contents from the cap and to clarify if contents are not clear after standing at room temperature.

Expiry Date: 6 months

Images



SDS-PAGE

Image 1. SDS-PAGE of Rat Tumor Necrosis Factor alpha Recombinant Protein SDS-PAGE of Rat Tumor Necrosis Factor alpha Recombinant Protein. Lane 1: 1 µg Rat TNF-alpha AF in non-reducing conditions . Lane 2: Molecular weight marker. Lane 3: 1 µg Rat TNF-alpha AF in reducing conditions (+). Lane 4: Molecular weight marker. Rat TNF-alpha has a predicted MW of 17.3 kDa.