

TNF-alpha Recombinant Protein | TNF recombinant protein

TNF-alpha Protein, Human, Recombinant

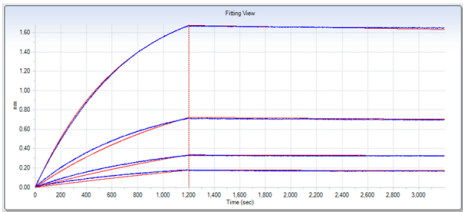
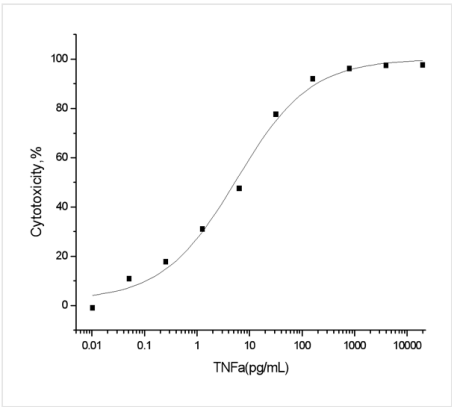
CATALOG # AAA257428	HOST E Coli	REACTIVITY Human
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PRODUCT SYNONYMS

TNF-alpha; TNF-alpha Protein; Human; Recombinant; Human TNF-alpha/TNFA Protein; tumor necrosis factor; DIF Protein; TNFA Protein; TNFSF2 Protein; TNF recombinant protein

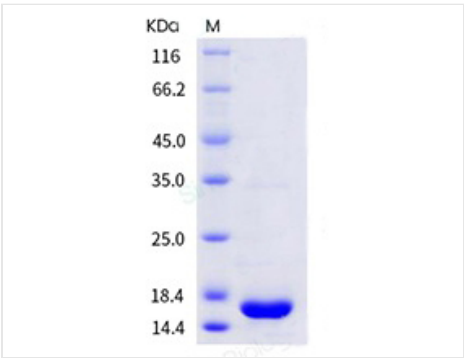
PRODUCT SPECIFICATIONS

Host	E Coli
Reactivity	Human
Purity/Purification	>95 % as determined by SDS-PAGE and SEC-HPLC
Form/Format	Lyophilized from sterile 20mM Tris, 500mM NaCl, 10% Glycerol, pH 7.4, 5% trehalose, 5% mannitol, 0.01% tween-80.
Sequence Positions	158aa
Sequence	Val77-Leu2 33
Source	Human
Predicted N Terminal	Met
Reconstitution	It is recommended that sterile water (400ul) be added to the vial to prepare a stock solution of 0.25mg/mL. Concentration is mesured by UV.
Protein Construction	A DNA sequence encoding the human TNF-alpha soluble form (NP_000585.2) (Val 77-Leu 233) was expressed, with an initial Met at the N-terminus
Bio Activity	1. Measured in a cytotoxicity assay using L929 mouse fibrosarcoma cells in the presence of the metabolic inhibitor actinomycin D. The ED50 for this effect is typically 5-50 pg/mL.
Endotoxin	< 5 EU per mg of the protein as determined by LAL method.
Preparation and Storage	Samples are stable for twelve months from date of receipt at -20°C to -80°C. Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage. Avoid repeated freeze-thaw cycles.



FCM/FACS (Flow Cytometry)
Labeled biotin to TNF-alpha Protein, Human, Recombinant by a certain molar ratio; Using the Octet RED System, the affinity constant (Kd) of TNF-alpha Protein, Human, Recombinant, Biotinylated bound to Humira was 0.1 nM.

Application Data
Measured in a cytotoxicity assay using L929 mouse fibrosarcoma cells in the presence of the metabolic inhibitor actinomycin D. The ED50 for this effect is typically 5-50 pg/mL.



Application Data

ADDITIONAL INFORMATION

Related Product Information for TNF recombinant protein	Tumor necrosis factor alpha (TNF-alpha), also known as TNF, TNFA or TNFSF2, is the prototypic cytokine of the TNF superfamily, and is a multifunctional molecule involved in the regulation of a wide spectrum of biological processes including cell proliferation, differentiation, apoptosis, lipid metabolism, and coagulation. Two receptors, TNF-R1 (TNF receptor type 1; CD120a; p55/60) and TNF-R2 (TNF receptor type 2; CD120b; p75/80), bind to TNF-alpha. TNF-alpha protein is produced mainly by macrophages, and large amounts of this cytokine are released in response to lipopolysaccharide, other bacterial products, and Interleukin-1 (IL-1). TNF-alpha is involved in fighting against the tumorigenesis, thus, is regarded as a molecular insight in cancer treatment.TNF-alpha Protein & Antibody
Product Categories/Family for TNF recombinant protein	Cancer Drug Targets Neuroinflammation; Death Receptor Signaling
References	Hector J, et al. (2007) TNF-alpha alters visfatin and adiponectin levels in human fat. Horm Metab Res. 39(4): 250-5. Berthold-Losleben M, et al. (2008) The TNF-alpha System: Functional Aspects in Depression, Narcolepsy and Psychopharmacology. Curr Neuropharmacol. 6(3): 193-202.

NCBI AND UNIPROT INFORMATION

NCBI GI #	25952111
NCBI GeneID	7124
NCBI Accession #	NP_000585.2
NCBI GenBank Nucleotide #	NM_000594.3
UniProt Accession #	P01375; O43647; Q9P1Q2; Q9UIV3

Molecular Weight	The recombinant human TNF- α consists of 150 amino acids and has a predicted molecular mass of 17.4 kDa which is also estimated by SDS-PAGE.
NCBI Official Full Name	tumor necrosis factor
NCBI Official Synonym Full Names	tumor necrosis factor
NCBI Official Symbol	TNF
NCBI Official Synonym Symbols	DIF; TNFA; TNFSF2; TNF-alpha
NCBI Protein Information	tumor necrosis factor; TNF- α ; cachectin; APC1 protein; TNF, monocyte-derived; TNF, macrophage-derived; tumor necrosis factor-alpha; tumor necrosis factor ligand superfamily member 2
UniProt Protein Name	Tumor necrosis factor
UniProt Gene Name	TNF
UniProt Synonym Gene Names	TNFA; TNFSF2; TNF-a; NTF; ICD1; ICD2
UniProt Entry Name	TNFA_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/tnf-recombinant-protein-e-coli/257428>