

Tumor Necrosis Factor-alpha Active Protein | TNF active protein

Tumor Necrosis Factor-alpha, 77-233 aa, Human, E Coli (Bioactivity Validated)

CATALOG # AAA11742	HOST E Coli	APPLICATIONS SDS-Page
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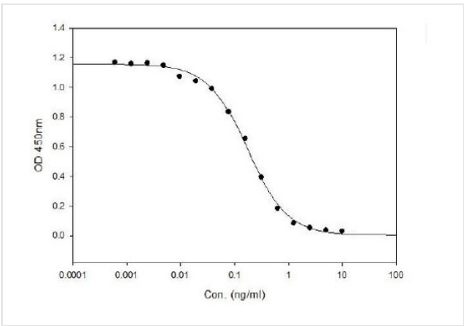
PRODUCT SYNONYMS

Tumor Necrosis Factor-alpha; 77-233 aa; Human; E Coli (Bioactivity Validated); Tumor necrosis factor alpha; TNFA; TNFSF2; DIF (differentiation inducing factor); CACHECTIN; DIF; TNF-alpha; TNF; tumor necrosis factor (TNF superfamily; member 2); TNF superfamily member 2; ; TNF active protein

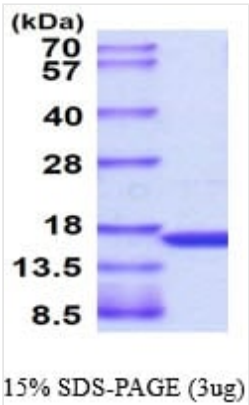
PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	> 95% by SDS-PAGE
Form/Format	Liquid. In Phosphate-Buffered Saline (pH 7.4)
Concentration	1 mg/ml (determined by Bradford assay) (varies by lot)
Sequence	MVRSSSRTPS DKPVAHVVAN PQAEGQLQWL NRRANALLAN GVELRDNQLV VPSEGLYLIY SQVLFKGQGC PSTHVLLTHT ISRIAVSYQT KVNLLSAIKS PCQRETPEGA EAKPWYEPIY LGGVFQLEKG DRLSAEINRP DYLDFAESGQ VYFGIIAL
Applicable Applications for TNF active protein	SDS-PAGE, Bioactivity
Domain	77-233aa
Tag	Non-tagged
Endotoxin Level	< 1 EU per 1 ug of protein (determined by LAL method)
Biological Activity	Measured in a cytotoxicity assay using L-929 mouse fibrosarcoma cells in the presence of the metabolic inhibitor actinomycin D. The ED50 range $\leq$ 0.2 ng/mL.
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Can be stored at 2°C to 8°C for one week. For long term storage, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.

IMAGES



Biological Activity
Human TNF-alpha induces cell cytotoxicity in the L-929 mouse fibroblast cells in the presence of the metabolic inhibitor actinomycin D.



SDS-PAGE
3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain

ADDITIONAL INFORMATION

Related Product Information for TNF active protein	Tumor necrosis factor alpha (TNF-alpha), also called cachectin, consists of 157 amino acids. TNF-alpha is a 17.5 kD factor produced by neutrophils, CD4+ T cells, macrophage, NK cells, LAK cells, astrocytes endothelial cells, and smooth muscle cells. TNF-alpha is cytolytic and plays an important role in immune regulation including hemorrhagic tumor necrosis/cytotoxicity and inflammation, and in regulation of antiviral and immune proliferative and activation responses. The active form of this protein is a trimer. Recombinant human TNF-alpha was expressed in E. coli and purified by using conventional chromatography techniques. Additional amino acid, methionine, was attached at N-terminus of the protein.
Product Categories/Family for TNF active protein	Hormones & Cytokines
References	Chicoine M.R., et al. (1997), J. Neurooncol. 35: 249-57; Ruddle N.H., et al. (1992), Curr. Opin. Immunol. 4: 327-32; Wingfield P., et al. (1987), FEBS Lett. 211:179-184;

NCBI AND UNIPROT INFORMATION

NCBI GI #	25952111
NCBI GeneID	7124
NCBI Accession #	NP_000585
NCBI GenBank Nucleotide #	NM_000594.3
UniProt Accession #	P01375; O43647; Q9P1Q2; Q9UIV3
Molecular Weight	17.5 kDa (158 aa), confirmed by MALDI-TOF.
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; TNLG1F; TNF-alpha
NCBI Protein Information	tumor necrosis factor
UniProt Protein Name	Tumor necrosis factor
UniProt Gene Name	TNF
UniProt Synonym Gene Names	TNFA; TNFSF2; TNF-a; NTF; ICD1; ICD2

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://www.aaabiotech.com/e-coli-active-protein/tumor-necrosis-factor-alpha/11742>