

Tumor Necrosis Factor-alpha Recombinant Protein | TNF recombinant protein

Mouse Tumor Necrosis Factor-alpha Recombinant

CATALOG #	HOST
AAA76088	E Coli (Host protein expression may be lot-specific and can be subject to change during production, including bulk orders)

PRODUCT SYNONYMS

Tumor Necrosis Factor-alpha; Mouse Tumor Necrosis Factor-alpha Recombinant; tnfr-alpha; tumor necrosis factor; cachectin; tnfa; TNF recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli (Host protein expression may be lot-specific and can be subject to change during production, including bulk orders)
Purity/Purification	>97%, as determined by SDS-PAGE and HPLC
Form/Format	Recombinant mouse TNF alpha was lyophilized from 0.2 um filtered PBS solution, pH 7.0.
Sequence	MSTESMIRDV ELAEEALPQK MGGFQNSRRR LCLSLFSFLL VAGATTFLCL LNFGVIGPQR DEKFPNGLPL ISSMAQTLTL RSSSQNSSDK PVAHVVANHQ VEEQLEWLSQ RANALLANGM DLKDNQLVVP ADGLYLVYSQ VLFKGQGPCD YVLLTHTVSR FAISYQEKVN LLSAVKSPCP KDTPEGAELK PWYEPIYLGK VFQLEKGDQL SAEVNLPKYL DFAESGQVYF GVIAL
Sequence Length	235
Domain	TNF
Host Note	Optimized DNA sequence encoding Mouse Tumor Necrosis Factor-alpha extracellular domain was expressed in Escherichia Coli.
Endotoxin	Endotoxin content was assayed using a LAL gel clot method. Endotoxin level was found to be less than 0.1 ng/ug (1EU/ug).
Reconstitution	A quick spin of the vial followed by reconstitution in distilled water to a concentration not less than 0.1 mg/mL. This solution can then be diluted into other buffers.
Molecular Weight Note	Native Mouse Tumor Necrosis Factor-alpha is generated by the proteolytic removal of the signal peptide and propeptide, this molecule has a calculated mass of approximately 17kDa. Recombinant Mouse TNF is a disulfide-linked monomer protein, consisting of 157 amino acids and migrates as an approximately 17 kDa protein under reducing conditions.
Preparation and Storage	The lyophilized protein is stable for at least 2 years from date of receipt at -20 degree C. Upon reconstitution, this cytokine can be stored in working aliquots at 2 degree - 8 degree C for one month, or at -20 degree C for six months, with a carrier protein without detectable loss of activity. Avoid repeated freeze/thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for TNF recombinant protein	TNF is secreted by macrophages, monocytes, neutrophils, T-cells, NK- cells following their stimulation by bacterial lipopolysaccharides. Cells expressing CD4 secrete TNF- alpha while CD8 (+) cells secrete little or no TNF- alpha. Stimulated peripheral neutrophilic granulocytes but also unstimulated cells and also a number of transformed cell lines, astrocytes, microglial cells, smooth muscle cells, and fibroblasts also secrete TNF. Human milk also contains this factor.
Product Categories/Family for TNF recombinant protein	Cytokines

References	• tak1-mediated serine/threonine phosphorylation of epidermal growth factor receptor via p38/extracellular signal-regulated kinase: nf-b-independent survival pathways in tumor necrosis factor alpha signaling .<i>Mol. Cell. Biol.</i>, Oct 2009; 29: 5529 - 5539. • tumor necrosis factor--mediated regulation of the inositol 1,4,5-trisphosphate receptor promoter .<i>J. Biol. Chem.</i>, Oct 2009; 284: 27557 - 27566. • tnf- inhibition attenuates adverse myocardial remodeling in a rat model of volume overload .<i>Am J Physiol Heart Circ Physiol</i>, Oct 2009; 297: H1462 - H1468. • tnf inhibits apoptotic cell clearance in the lung, exacerbating acute inflammation .<i>Am J Physiol Lung Cell Mol Physiol</i>, Oct 2009; 297: L586 - L595. • association of tnf- gene polymorphisms with systemic lupus erythematosus in taiwanese patients .<i>Lupus</i>, Oct 2009; 18: 974 - 979.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	7305585
NCBI GeneID	21926
NCBI Accession #	NP_038721.1
NCBI GenBank Nucleotide #	NM_013693.2
UniProt Accession #	P06804; O35853; Q62326; Q91VF3; Q0X0E6; Q3U4I6; Q3U593; Q6TDG3
Molecular Weight	25,896 Da
NCBI Official Full Name	tumor necrosis factor
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_MOUSE

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/76088>