

Active Recombinant Mouse Tnf Protein (157 aa)

Cat. No. Tnf-016T **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Tnf Protein without tag was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	157
Description	Tumor necrosis factor alpha (TNF-α) is produced by neutrophils, activated lymphocytes, macrophages, NK cells, LAK cells, astrocytes endothelial cells, smooth muscle cells and some transformed cells. Mouse TNF-α occurs as a membrane-anchored form. The naturally-occurring form of TNF-α is glycosylated, but non-glycosylated recombinant TNF-α has comparable biological activity. The biologically active native form of TNF-α is reportedly a trimer. Human and murine TNF-α show approximately 79% homology at the amino acid level and crossreactivity between the two species.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	Fully biologically active when compared to standard. The ED50 as determined by the cytolysis of murine L929 cells in the presence of actinomycin D is < 0.1 ng/mL, corresponding to a specific activity of > 1 × 10 ⁷ units/mg.
Molecular Mass	Approximately 17.3 kDa. The recombinant murine TNF-alpha is a soluble 157 amino

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	acid protein which corresponds to C-terminal extracellular domain of the full length transmembrane protein.
AA Sequence	MLRSSSQNSSDKPVAHVVANHQVEEQLEWLSQRANALLANGMDLKDNLVVPADG LYLVYSQVLFGKGQGPCDYVLLTHTVSRFAISYQEKVNLLSAVKSPCPKDTPEGAELK PWYEPIYLGGVFQLEKGDQLSAEVNLPKYLDFAESGQVYFGVIAL
Endotoxin	Less than 1 EU/mg of rMuTNF-α as determined by LAL method.
Purity	>97% by SDS-PAGE and HPLC analyses.
Storage	This lyophilized preparation is stable at 2-8 centigrade, but should be kept at -20 centigrade for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8 centigrade. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20 to -70 centigrade. Avoid repeated freeze/thaw cycles.
Storage Buffer	Lyophilized from a 0.2mm filtered solution in PBS, pH 7.2.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at < -20 centigrade. Further dilutions should be made in appropriate buffered solutions.

GENE INFORMATION

Gene Name	Tnf tumor necrosis factor [Mus musculus]
Official Symbol	Tnf

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Synonyms	TNF; tumor necrosis factor; TNF-a; TNF alpha; cachectin; tumor necrosis factor alpha; tumor necrosis factor-alpha; tumor necrosis factor ligand superfamily member 2; DIF; Tnfa; TNFSF2; Tnfsf1a; TNFalpha; TNF-alpha; MGC151434;
Gene ID	21926
mRNA Refseq	NM_013693
Protein Refseq	NP_038721
UniProt ID	P06804

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