

## Active Recombinant Mouse Tnf Protein

**Cat. No.** Tnf-733M    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Mouse Tnf Protein without tag was expressed in E. coli.
<b>Species</b>	Mouse
<b>Source</b>	E.coli
<b>Description</b>	<p>Tumor necrosis factor alpha (TNF-<math>\alpha</math>), also called cachectin, is the best-know member of the TNF-family, which can cause cell death. This protein is produced by neutrophils, activated lymphocytes, macrophages, NK cells, LAK cells, astrocytes endothelial cells, smooth muscle cells and some transformed cells. TNF-<math>\alpha</math> occurs as a secreted, soluble form and as a membrane-anchored form, both of which are biologically active. The naturally-occurring form of TNF-<math>\alpha</math> is glycosylated, but non-glycosylated recombinant TNF-<math>\alpha</math> has comparable biological activity. The biologically active native form of TNF-<math>\alpha</math> is reportedly a trimer. Human and murine TNF-<math>\alpha</math> show approximately 79 % homology at the amino acid level and cross-reactivity between the two species. Two types of receptors for TNF-<math>\alpha</math> have been described and virtually all cell types studied show the presence of one or both of these receptor types.</p>
<b>Form</b>	Sterile Filtered White lyophil
<b>Bio-activity</b>	Fully biologically active when compared to standard. The ED50 as determined by a cytotoxicity assay using murine L929 cells is less than 0.1 ng/mL, corresponding to a specific activity of $> 1.0 \times 10^7$ IU mg in the presence of actinomycin D.

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<b>Molecular Mass</b>	Approximately 17.4 kDa. The re
<b>AA Sequence</b>	MLRSSSQNSSDKPVAHVVANHQVEEQLEWLSQRANALLANGMDLKDNQLVVPADG LYLVYSQVLFKGGQCPDYVLLTHTVSRFAISYQEKVNLLSAVKSPCKDTPEGAELK PWYEPIYLGGVFQLEKGDQLSAEVNLPKYLDFAESGQVYFGVIAL
<b>Endotoxin</b>	Less than 1 EU/ag of rMuTNF-a as determined by LAL method.
<b>Purity</b>	> 98% by SDS-PAGE and HPLC analyses.
<b>Storage</b>	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.
<b>Storage Buffer</b>	Lyophilized from a 0.2 µm filtered solution in PBS, pH 7.2.
<b>Reconstitution</b>	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.

## GENE INFORMATION

<b>Gene Name</b>	Tnf tumor necrosis factor [ <i>Mus musculus</i> (house mouse) ]
<b>Official Symbol</b>	Tnf
<b>Synonyms</b>	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;

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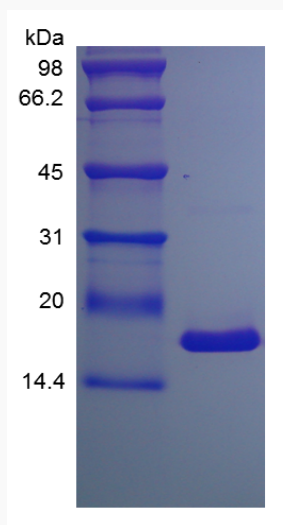
**Gene ID** 21926

**mRNA Refseq** NM\_013693

**Protein Refseq** NP\_038721

**UniProt ID** P06804

**SDS-PAGE**



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