

## Active Recombinant Rat Tnf Protein (157 aa)

Cat. No. Tnf-003T Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Rat Tnf Protein without tag was expressed in E. coli.
<b>Species</b>	Rat
<b>Source</b>	E.coli
<b>ProteinLength</b>	157
<b>Description</b>	Tumor necrosis factor alpha (TNF- $\alpha$ ), also called cachectin, is produced by neutrophils, activated lymphocytes, macrophages, NK cells, LAK cells, astrocytes endothelial cells, smooth muscle cells and some transformed cells. TNF- $\alpha$ occurs as a secreted, soluble form and as a membrane-anchored form, both of which are biologically active. The naturally-occurring form of TNF- $\alpha$ is glycosylated, but non-glycosylated recombinant TNF- $\alpha$ has comparable biological activity. The biologically active native form of TNF- $\alpha$ is reportedly a trimer. Two types of receptors for TNF- $\alpha$ have been described and virtually all cell types studied show the presence of one or both of these receptor types.
<b>Form</b>	Sterile Filtered White lyophilized (freeze-dried) powder.
<b>Bio-activity</b>	Fully biologically active when compared to standard. The Specific Activity is $\geq 5.0 \times 10^7$ IU/mg as determined by the cytolysis of murine L929 cells in the presence of Actinomycin D.

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<b>Molecular Mass</b>	Approximately 17.3 kDa. a single, non-glycosylated polypeptide chain containing 157 amino acids.
<b>AA Sequence</b>	MLRSSSQNSSDKPVVHVVANHQAEEQLEWLSQRANALLANGMDLKDNQLVVPADG LYLIYSQVLFKGGQCPDYVLLTHTVSRFATSYQEKVSLLSAIKSPCKDTPEGAELKP WYEPMYLGGVSQLEKGDLLSAEVNLPKYLDITESGQVYFGVIAL
<b>Endotoxin</b>	Less than 1 EU/mg of rRtTNF- $\alpha$ as determined by LAL method.
<b>Purity</b>	>95% 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 0.2mm filtered concentrated solution in 20mM PB, pH7.2, 150mM NaCl.
<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. Stock solutions should be apportioned into working aliquots and stored at < -20 centigrade. Further dilutions should be made in appropriate buffered solutions.

## GENE INFORMATION

<b>Gene Name</b>	Tnf tumor necrosis factor [ <i>Rattus norvegicus</i> ]
<b>Official Symbol</b>	Tnf

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<b>Synonyms</b>	TNF; tumor necrosis factor; cachectin; tumor necrosis factor alpha; tumor necrosis factor (TNF superfamily, member 2); tumor necrosis factor ligand superfamily member 2; Tnfa; RATTNF; TNF-alpha; MGC124630;
<b>Gene ID</b>	<a href="#">24835</a>
<b>mRNA Refseq</b>	<a href="#">NM_012675</a>
<b>Protein Refseq</b>	<a href="#">NP_036807</a>
<b>UniProt ID</b>	<a href="#">P16599</a>

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