

## Recombinant Rat Tnf protein

Cat. No. Tnf-71R Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Rat Tnf protein was expressed in Escherichia coli.
<b>Species</b>	Rat
<b>Source</b>	E.coli
<b>ProteinLength</b>	156
<b>Description</b>	Tumor necrosis factor alpha (TNF- $\alpha$ ), 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- $\alpha$ 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. 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>	Lyophilized from a 0.2 $\mu$ m filtered concentrated solution in 20 mM PB, pH 7.2, 150 mM NaCl.
<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 0.05 ng/ml, corresponding to a specific activity of > 2.0 $\times$ 10 <sup>7</sup> IU/mg in the presence of actinomycin D.

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<b>Molecular Mass</b>	Approximately 17.2 kDa, a single non-glycosylated polypeptide chain containing 156 amino acids.
<b>AA Sequence</b>	LRSSSQNSSDKPVAHVVANHQAEEQLEWLSQRANALLANGMDLKDNLVVPADGL YLIYSQVLFKGGQCPDYVLLTHTVSRFAISYQEKVSLLSAIKSPCPKDTPEGAELKPW YEPMYLGGVFQLEKGDLLSAEVNLPKYLDITESGQVYFGVIAL
<b>Endotoxin</b>	Less than 1 EU/μg of rRtTNF-α as determined by LAL method.
<b>Purity</b>	>98% by SDS-PAGE and HPLC analysis.
<b>Storage</b>	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
<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
<b>Official Symbol</b>	Tnf
<b>Synonyms</b>	Tumor Necrosis Factor, TNFSF2, Cachectin, Differentiation-inducing Factor , DIF, Necrosin, Cytotoxin

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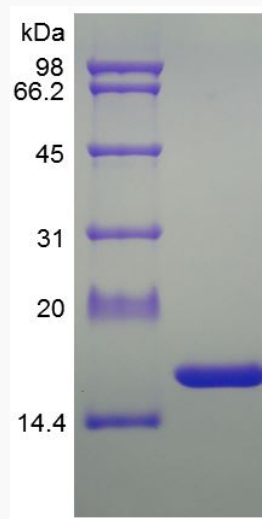
Gene ID 24835

mRNA Refseq NM\_012675

Protein Refseq NP\_036807

UniProt ID P16599

SDS-PAGE of Tnf-71R



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