

## Active Recombinant Rat Tnf

**Cat. No.** Tnf-381R    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant rat Tumor Necrosis Factor-Alpha (rrTNF-Alpha) produced in <i>P. pastoris</i> is a glycosylated polypeptide chain containing 157 amino acids.
<b>Species</b>	Rat
<b>Source</b>	<i>P.pastoris</i>
<b>Description</b>	Tumor Necrosis Factor-Alpha (TNF-Alpha) also known as Cachectin and TNFSF1A, plays a major role in growth regulation, differentiation, inflammation, viral replication, tumorigenesis, and autoimmune diseases; and in viral, bacterial, fungal, and parasitic infections. Besides inducing hemorrhagic necrosis of tumors, TNF has been found to be involved in tumorigenesis, tumor metastasis, viral replication, septic shock, fever, inflammation, and autoimmune diseases including Crohns disease, and rheumatoid arthritis as well as graft-versus-host disease.
<b>Form</b>	Lyophilized after extensive dialysis against PBS.
<b>Bio-activity</b>	ED <sub>50</sub> < 50 pg/ml, measured in a cytotoxicity assay using mouse I-929 cells in the presence of actinomycin d, corresponding to a specific activity of >2.0 × 10 <sup>7</sup> units/mg.
<b>Molecular Mass</b>	17.4kDa, observed by reducing SDS-PAGE.
<b>AA Sequence</b>	Leu80- Leu235, expressed with an N-terminal Met.

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<b>Endotoxin</b>	< 0.2 EU/μg, determined by LAL>
<b>Purity</b>	>95% by SDS-PAGE and HPLC analyses.
<b>Storage</b>	Lyophilized recombinant protein remains stable up to 6 months at -80°C from date of receipt. Upon reconstitution, rrTNF-Alpha should be stable up to 2 weeks at 4°C or up to 3 months at -20°C.
<b>Reconstitution</b>	Reconstituted in ddH <sub>2</sub> O at 100 μg/ml.

## GENE INFORMATION

<b>Gene Name</b>	Tnf tumor necrosis factor [ <i>Rattus norvegicus</i> ]
<b>Official Symbol</b>	Tnf
<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>	24835
<b>mRNA Refseq</b>	NM_012675
<b>Protein Refseq</b>	NP_036807
<b>Pathway</b>	Adipocytokine signaling pathway, organism-specific biosystem; Adipocytokine signaling pathway, conserved biosystem; Adipogenesis, organism-specific biosystem; African trypanosomiasis, organism-specific biosystem; African trypanosomiasis, conserved biosystem; Allograft rejection, organism-specific biosystem; Allograft rejection, conserved biosystem;

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**Function**

cytokine activity; cytokine activity; identical protein binding; identical protein binding; protease binding; protease binding; transcription regulatory region DNA binding; transcription regulatory region DNA binding; tumor necrosis factor receptor binding; tumor necrosis factor receptor binding; tumor necrosis factor receptor binding; tumor necrosis factor receptor binding; tumor necrosis factor receptor binding;

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