

Active Recombinant Rat Tnf

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

SPECIFICATION

Product Overview	Recombinant rat Tumor Necrosis Factor-Alpha (rrTNF-Alpha) produced in <i>P. pastoris</i> is a glycosylated polypeptide chain containing 157 amino acids.
Species	Rat
Source	<i>P.pastoris</i>
Description	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.
Form	Lyophilized after extensive dialysis against PBS.
Bio-activity	ED ₅₀ < 50 pg/ml, measured in a cytotoxicity assay using mouse L-929 cells in the presence of actinomycin D, corresponding to a specific activity of >2.0 × 10 ⁷ units/mg.
Molecular Mass	17.4kDa, observed by reducing SDS-PAGE.
AA Sequence	Leu80- Leu235, expressed with an N-terminal Met.

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Endotoxin	< 0.2 EU/μg, determined by LAL
Purity	>95% by SDS-PAGE and HPLC analyses.
Storage	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.
Reconstitution	Reconstituted in ddH ₂ O at 100 μg/ml.
GENE INFORMATION	
Gene Name	Tnf tumor necrosis factor [<i>Rattus norvegicus</i>]
Official Symbol	Tnf
Synonyms	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;
Gene ID	24835
mRNA Refseq	NM_012675
Protein Refseq	NP_036807
Pathway	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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