

Active Recombinant Rat TNF Protein

Cat. No. TNF-251R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat TNF Protein without tag was expressed in E. coli.
Species	Rat
Source	E.coli
Description	Tumor necrosis factor alpha (TNF- α) is an inflammatory cytokine secreted by macrophages, monocytes, neutrophils, T cells, and NK-cells following stimulation by bacterial lipopolysaccharide (LPS). TNF- α signal activation occurs through two receptors, TNFR1 and TNFR2. TNFR1 is expressed on most cell types, unlike TNFR2, which is expressed mainly on immune cells. TNF- α functions to stimulate phagocytosis in macrophages, chemoattract neutrophils, increase insulin resistance, and induce fever.
Bio-activity	Cytolysis of mouse L929 cells in the presence of Actinomycin D, ≤ 50 pg/mL
Molecular Mass	Monomer, 17.3 kDa (157 aa)
AA Sequence	MLRSSSQNSSDKPVAHVVANHQAEEQLEWLSQRANALLANGMDLKDNQLVVPADG LYLIYSQVLFGQGCPDYVLLTHTVSRFATSYQEKVSLLSAIKSPCKDTPEGAELKP WYEPMYLGGVSQLEKGDLLSAEVNLPKYLDITESGQVYFGVIAL
Endotoxin	≤ 1 EUs/ μ g, Kinetic LAL
Purity	$\geq 95\%$, Reducing and Non-Reducing SDS PAGE

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Stability	12 months from date of receipt when stored at -20 to -80 centigrade as supplied. 1 month when stored at 4 centigrade after reconstituting as directed. 3 months when stored at -20 to -80 centigrade after reconstituting as directed.
Storage	Storage Prior to Reconstitution: -20 centigrade
Storage Buffer	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium phosphate, 50 mM sodium chloride, pH 7.5
Reconstitution	Sterile water at 0.1 mg/mL
Shipping	Room temperature
Instructions	Centrifuge vial before opening. Suspend the product by gently pipetting the above recommended solution down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution, store at -80 centigrade and avoid repeat freeze thaws.

GENE INFORMATION

Gene Name	Tnf tumor necrosis factor [<i>Rattus norvegicus</i> (Norway rat)]
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

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Protein Refseq	NP_036807
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UniProt ID	P16599
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