

Active Recombinant Rat Tnf Protein (157 aa)

Cat. No. Tnf-147T **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Tnf Protein (157 aa) without tag was expressed in P. pastoris.
Species	Rat
Source	P.pastoris
ProteinLength	157
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 Crohn's disease, and rheumatoid arthritis as well as graft-versus-host disease.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	ED50 < 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 $> 2.0 \times 10^7$ units/mg.
Molecular Mass	17.4kDa, observed by reducing SDS-PAGE.
AA Sequence	MLRSSSQNSSDKPVAHVVANHQAEEQLEWLSQRANALLANGMDLKDNQLVVPADG

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	LYLIYSQVLFGKGQCPDYVLLTHTVSRFAISYQEKVSLLSAIKSPCPKDTPEGAELKP WYEPMYLGGVFQLEKGDLLSAEVNLPKYLDITESGQVYFGVIAL
Endotoxin	< 0.2 EU/μg, determined by LAL method.
Purity	> 95% by SDS-PAGE and HPLC analyses.
Storage	Lyophilized recombinant rat Tumor Necrosis Factor-Alpha (rrTNF-Alpha) remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, rrTNF-Alpha should be stable up to 2 weeks at 4 centigrade or up to 3 months at -20 centigrade.
Storage Buffer	Lyophilized after extensive dialysis against PBS.
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

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UniProt ID

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