

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 <i>P. pastoris</i> .
Species	Rat
Source	<i>P.pastoris</i>
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 × 10 ⁷ units/mg.
Molecular Mass	17.4kDa, observed by reducing SDS-PAGE.
AA Sequence	MLRSSSQNSSDKPVAHVVANHQAEEQLEWLSQRANALLANGMDLKDNQLVVPADG

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LYLIYSQVLFKGGQCPDYVLLTHTVSRFAISYQEKVSLLSAIKSPCPKDTPEGAELKP
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 ddH2O at 100 μg/mL.

GENE INFORMATION

Gene Name [Tnf tumor necrosis factor \[Rattus norvegicus \]](#)

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

P16599

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