

Active Recombinant Rat Tnf Protein (157 aa)

Cat. No. Tnf-003T Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Tnf Protein without tag was expressed in E. coli.
Species	Rat
Source	E.coli
ProteinLength	157
Description	Tumor necrosis factor alpha (TNF-α), also called cachectin, is produced by neutrophils, activated lymphocytes, macrophages, NK cells, LAK cells, astrocytes endothelial cells, smooth muscle cells and some transformed cells. TNF-α occurs as a secreted, soluble form and as a membrane-anchored form, both of which are biologically active. The naturally-occurring form of TNF-α is glycosylated, but non-glycosylated recombinant TNF-α has comparable biological activity. The biologically active native form of TNF-α is reportedly a trimer. Two types of receptors for TNF-α have been described and virtually all cell types studied show the presence of one or both of these receptor types.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	Fully biologically active when compared to standard. The Specific Activity is $\geq 5.0 \times 10^7$ IU/mg as determined by the cytolysis of murine L929 cells in the presence of Actinomycin D.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Molecular Mass	Approximately 17.3 kDa. a single, non-glycosylated polypeptide chain containing 157 amino acids.
AA Sequence	MLRSSSQNSSDKPVVHVVANHQAEEQLEWLSQRANALLANGMDLKDNQLVVPADG LYLIYSQVLFGKGQCPDYVLLTHTVSRFATSYQEKVSLLSAIKSPCPKDTPEGAELKP WYEPMYLGGVSQLEKGDLLSAEVNLPKYLDITESGQVYFGVIAL
Endotoxin	Less than 1 EU/mg of rRtTNF- α as determined by LAL method.
Purity	>95% by SDS-PAGE and HPLC analyses.
Storage	This lyophilized preparation is stable at 2-8 centigrade, but should be kept at -20 centigrade for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8 centigrade. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20 to -70 centigrade. Avoid repeated freeze/thaw cycles.
Storage Buffer	Lyophilized from a 0.2mm filtered concentrated solution in 20mM PB, pH7.2, 150mM NaCl.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/ml. Stock solutions should be apportioned into working aliquots and stored at < -20 centigrade. Further dilutions should be made in appropriate buffered solutions.

GENE INFORMATION

Gene Name	Tnf tumor necrosis factor [<i>Rattus norvegicus</i>]
Official Symbol	Tnf

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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
UniProt ID	P16599

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