

Recombinant Rat TNF, Flag-tagged

Cat. No. TNF-97R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Tumor Necrosis Factor- α Rat Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 157 amino acids and having a molecular mass of 17339.44 Dalton. The TNF- α is purified by standard chromatographic techniques.
Species	Rat
Source	E.coli
Description	Tumor necrosis factor (TNF, cachexin or cachectin formerly known as tumor necrosis factor- α) is a cytokine involved in systemic inflammation and is a member of a group of cytokines that stimulate the acute phase reaction. The primary role of TNF is in the regulation of immune cells. TNF is able to induce apoptotic cell death, to induce inflammation, and to inhibit tumorigenesis and viral replication.
Form	The protein was lyophilized with no additives.
Research topic	Cytokines and chemokines and related molecules, Energy metabolism and body weight regulation.
Purity	Greater than 97.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Sequences of amino acids	The sequence of the first five N-terminal amino acids was determined and was found to be Met-Leu-Arg-Ser-Ser.

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Storage

Lyophilized Tumor Necrosis Factor- α although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution TNF- α should be stored at 4°C between 2-7 days and for future use below -18°C . For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

GENE INFORMATION
Gene Name

Tnf tumor necrosis factor (TNF superfamily, member 2) [*Rattus norvegicus*]

Official Symbol

TNF

Synonyms

TNF; tumor necrosis factor; TNF- α ; TNFSF2; TNFA; DIF; Tumor necrosis factor ligand superfamily member 2; TNF- α ; tumor necrosis factor (TNF superfamily, member 2); APC1 protein; cachectin; TNF superfamily, member 2; TNF, macrophage-derived; TNF, monocyte-derived; tumor necrosis factor alpha; tumor necrosis factor- α ; Cachectin

Gene ID

24835

mRNA Refseq

NM_012675

Protein Refseq

NP_036807

UniProt ID

P16599

Chromosome Location

20p12

Pathway

Adipocytokine signaling pathway; African trypanosomiasis; Alzheimer's disease; Cytokine-cytokine receptor interaction

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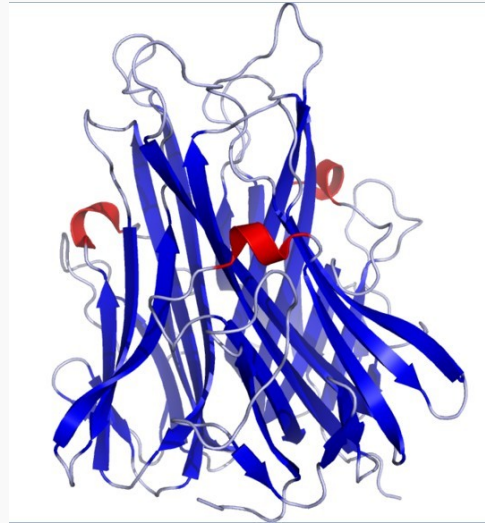
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Function

cytokine activity; identical protein binding; protease binding; transcription regulatory region DNA binding; tumor necrosis factor receptor binding

**TNFa
CrystalStructure**



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