

Active Recombinant Mouse Tnf

Cat. No. Tnf-509M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Tumor Necrosis Factor-alpha (rM TNF- α) produced in S.Lividans is a single, non-glycosylated, polypeptide chain that contains 156 amino acids and has a molecular mass of 17.3 kDa.
Species	Mouse
Source	Streptomyces Lividans
Description	Recombinant Mouse Tumor Necrosis Factor-alpha (rM TNF- α) is secreted by macrophages, monocytes, neutrophils, T-cells, NK-cells following their stimulation by bacterial LPS. TNF- α causes cytolysis and cytostasis of many tumor cell lines in vitro. It also enhances phagocytosis and cytotoxicity in neutrophilic granulocytes and modulates the expression of many other proteins. Cells expressing CD4 secrete TNF- α while CD8 cells secrete little or no TNF-alpha.
Form	Each mg contains 50mM Tris-HCL (pH 8) and 20mM sodium chloride.
Bio-activity	rM TNF-alpha is fully biologically active when compared to a standard. The ED50 as determined by the cytolysis of mouse L929 cells in the presence of Actinomycin D is less than 0.05ng/ml.
Molecular Mass	17.3 kDa
AA Sequence	MLRSSSQNSS DKPVAHVVAN HQVEEQLEWL SQRANALLAN GMDLKDNQLV VPADGLYLVY SQVLFKGGQC PDYVLLTHTV SRFAISYQEK VNLLSAVKSP

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CPKDTPEGAE LKPWYEPIYL GGVFQLEKGD QLSAEVNLPK YLDFAESGQV
YFGVIAL

Endotoxin

Endotoxin level as measured by LAL is <0.01ng g="" or=""><0.1eu>

Purity

Purity greater than 98% as determined by: Analysis by RP-HPLC. Reducing and non-reducing SDS-PAGE.

Stability

Product is stable for up to 3 years from manufacturing date, when stored lyophilized at -20centigrade. Reconstituted material should be aliquoted and frozen at -20centigrade. It is recommended to add a carrier protein (0.1% HSA or BSA) for long term stora

Reconstitution

It is recommended to reconstitute the lyophilized product with sterile water to a concentration of 0.1 mg/ml. It can be further diluted into other aqueous solutions.

Shipping

Can be shipped ambient. Product should be stored at -20centigrade upon receipt.

GENE INFORMATION

Gene Name

Tnf tumor necrosis factor [*Mus musculus*]

Official Symbol

Tnf

Synonyms

TNF; tumor necrosis factor; TNF-a; TNF alpha; cachectin; tumor necrosis factor alpha; tumor necrosis factor-alpha; tumor necrosis factor ligand superfamily member 2; DIF; Tnfa; TNFSF2; Tnfsf1a; TNFalpha; TNF-alpha; MGC151434;

mRNA Refseq

[NM_013693](#)

Protein Refseq

[NP_038721](#)

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Pathway

Adipocytokine signaling pathway, organism-specific biosystem; Adipocytokine signaling pathway, conserved biosystem; Adipogenesis, organism-specific biosystem; African trypanosomiasis, organism-specific biosystem; African trypanosomiasis, conserved biosyst

Function

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

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