

Recombinant Mouse Tnf protein, His-tagged

Cat. No. Tnf-67M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse TNF, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Species	Mouse
Source	Insect Cells
Description	TNF, also known as tumor necrosis factor isoform 1, is the prototypic ligand of the TNF superfamily. It is a pleiotropic molecule that plays a central role in inflammation, apoptosis, and immune system development. This protein is produced by a wide variety of immune and epithelial cell types. It is assembled intracellularly to form a noncovalently linked homotrimer which is expressed on the cell surface. Cell surface TNF can induce the lysis of neighboring tumor cells and virus infected cells, and it can generate its own downstream cell signaling following ligation by soluble TNFR I. It also promotes inflammatory responses by inducing the activation of vascular endothelial cells and macrophages.
Form	Liquid. In Phosphate Buffered Saline (pH 7.4)
Molecular Mass	18.0kDa (162aa)18-28kDa (SDS-PAGE under reducing conditions)
AA Sequence	LRSSSQNSSD KPAHVVANH QVEEQLEWLS QRANALLANG MDLKDNLVV PADGLYLVYS QVLFKGQGCP DYVLLTHTVS RFAISYQEKVNLLSAVKSPC PKDTPEGAEL KPWYEPIYLG GVFQLEKGDQ LSAEVNLPKY LDFAESGQVY FGVIALHHHH HH

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Endotoxin	< 1.0 EU per 1 microgram of protein (determined by LAL method)
Purity	>90% by SDS – PAGE
Storage	Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	1mg/ml (determined by Absorbance at 280nm)
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;
Gene ID	21926
mRNA Refseq	NM_013693
Protein Refseq	NP_038721
MIM	
UniProt ID	
Pathway	Adipocytokine signaling pathway, organism-specific biosystem; Adipocytokine signaling pathway, conserved biosystem; Adipogenesis, organism-specific biosystem;

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African trypanosomiasis, organism-specific biosystem; African trypanosomiasis, conserved biosystem; Allograft rejection, organism-specific biosystem; Allograft rejection, conserved biosystem;

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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