

Recombinant Mouse Tumor Necrosis Factor, FLAG-tagged

Cat. No. Tnf-429M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Tnf was produced in <i>E. coli</i> . The extracellular domain of mouse TNF- α (aa 77-235) is fused at the N-terminus to a linker peptide (8 aa) and a FLAG-tag.
Species	Mouse
Source	E.coli
Description	Tumor necrosis factor (TNF, cachexin or cachectin and formally known as tumor necrosis factor-alpha) 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. Dysregulation of TNF production has been implicated in a variety of human diseases, as well as cancer. Recombinant TNF is used as an immunostimulant under the INN tasonermin.
Purity	$\geq 95\%$ (SDS-PAGE).
Concentration	1mg/ml after reconstitution.
Formulation	Lyophilized. Contains PBS.
Specificity	TNF- α binds to human, mouse and rat TNF-R1 and TNF-R2. In the presence of cross-linking enhancer TNF-

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α preferentially binds to human, mouse and rat TNF-R2.

Reconstitution

Reconstitute the contents of each tube with 50μsterile distilled water. Further dilutions should be made with medium containing 5% fetal calf serum.

Stability

Stable for at least 6 months after receipt when stored at -20°C. Avoid freeze/thaw cycles.

GENE INFORMATION

Gene Name

Tnf tumor necrosis factor [[Mus musculus](#)]

Synonyms

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

Gene ID

[21926](#)

mRNA Refseq

[NM_013693](#)

Protein Refseq

[NP_038721](#)

UniProt ID

P06804

Chromosome Location

17 B1; 17 19.06 cM

Pathway

Adipocytokine signaling pathway; Allograft rejection; Alzheimer"s disease; Amyotrophic lateral sclerosis (ALS); Apoptosis; Asthma; Chagas disease; Cytokine-cytokine receptor interaction; Dilated cardiomyopathy; Fc epsilon RI signaling pathway; Graft-versus-host disease; Hematopoietic cell lineage; Hypertrophic

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cardiomyopathy (HCM); Leishmaniasis; MAPK signaling pathway; NOD-like receptor signaling pathway; Natural killer cell mediated cytotoxicity; RIG-I-like receptor signaling pathway; Systemic lupus erythematosus; T cell receptor signaling pathway; TGF-beta signaling pathway; Toll-like receptor signaling pathway; Type I diabetes mellitus; Type II diabetes mellitus

Function

cytokine activity; protein binding; tumor necrosis factor receptor binding

PDB rendering based
on 1TNF.

