

Active Recombinant Mouse Tnf Protein

Cat. No. Tnf-6539M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of Mouse tumor necrosis factor (Tnf) without tag was expressed in E. coli.
Species	Mouse
Source	E.coli
Description	<p>This gene encodes a multifunctional proinflammatory cytokine that belongs to the tumor necrosis factor (TNF) superfamily. Members of this family are classified based on primary sequence, function, and structure. This protein is synthesized as a type-II transmembrane protein and is reported to be cleaved into products that exert distinct biological functions. It plays an important role in the innate immune response as well as regulating homeostasis but is also implicated in diseases of chronic inflammation. In mouse deficiency of this gene is associated with defects in response to bacterial infection, with defects in forming organized follicular dendritic cell networks and germinal centers, and with a lack of primary B cell follicles. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jun 2013]</p>
Bio-activity	The ED50 as determined by the cytolysis of murine L929 cells in the presence of actinomycin D is less than or equal to 0.1 ng/mL, corresponding to a specific activity of $\geq 1 \times 10^7$ units/mg.
Molecular Mass	17.3 kDa
AA Sequence	MLRSSSQNSSDKPVAHVVANHQVEEQLEWLSQRANALLANGMDLKDNQLVVPADG

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LYLVYSQVLFKGGQCPDYVLLTHTVSRFAISYQEKVNLLSAVKSPCKDTPEGAELK
PWYEPIYLGGVFQLEKGDQLSAEVNLPKYLDFAESGQVYFGVIAL

Endotoxin	< 0.1 ng/μg of protein (< 1 EU/μg)
Purity	> 95% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for at least 6 months from date of receipt under proper storage and handling conditions.
Storage	Store at -80 centigrade.
Storage Buffer	Lyophilized from a 0.2 μM filtered solution of 20 mM phosphate buffer, 100 mM NaCl, pH 7.2

GENE INFORMATION

Gene Name	Tnf tumor necrosis factor [<i>Mus musculus</i> (house mouse)]
Official Symbol	Tnf
Synonyms	TNF; tumor necrosis factor; TNF-α; 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

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UniProt ID P06804

SDS-PAGE



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