

Recombinant Mouse Tnf protein, His-tagged

Cat. No. Tnf-533M Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Tnf (P06804) aa. (Leu80~Leu235) fused with His tag was produced in E. coli cells.
Species	Mouse
Source	E.coli
ProteinLength	Leu80~Leu235
Description	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.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 20.5kDa; Accurate Molecular Mass: 21kDa as determined by SDS-PAGE reducing conditions.

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Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	> 95%
Characteristic	Isoelectric point is 5.
Applications	Cell culture; Activity Assays; In vivo assays.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex

GENE INFORMATION

Gene Name	Tnf tumor necrosis factor [Mus musculus (house mouse)]
Official Symbol	Tnf
Synonyms	Tnf; tumor necrosis factor; DIF; Tnfa; TNF-α; TNFSF2; Tnlg1f; Tnfsf1a; TNFalpha; TNF-alpha; cachectin; tumor necrosis factor ligand 1f; tumor necrosis factor ligand superfamily member 2; tumor necrosis factor-alpha

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Gene ID	21926
mRNA Refseq	NM_001278601.1
Protein Refseq	NP_001265530.1
UniProt ID	P06804
SDS-PAGE	