

# Active Recombinant Mouse tumor necrosis factor Protein, His&Flag tagged

Cat. No. Tnf-014M Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant mouse TNF-alpha protein (P06804) (Leu 80-Leu 235) with both His, Flag tag at the C-terminus was expressed in HEK293.
<b>Species</b>	Mouse
<b>Source</b>	HEK293
<b>ProteinLength</b>	80-235aa
<b>Description</b>	Cytokine that binds to TNFRSF1A/TNFR1 and TNFRSF1B/TNFR. It is mainly secreted by macrophages and can induce cell death of certain tumor cell lines. It is potent pyrogen causing fever by direct action or by stimulation of interleukin-1 secretion and is implicated in the induction of cachexia, Under certain conditions it can stimulate cell proliferation and induce cell differentiation. Induces insulin resistance in adipocytes via inhibition of insulin-induced IRS1 tyrosine phosphorylation and insulin-induced glucose uptake. Induces GKAP42 protein degradation in adipocytes which is partially responsible for TNF-induced insulin resistance. Plays a role in angiogenesis by inducing VEGF production synergistically with IL1B and IL6. Promotes osteoclastogenesis and therefore mediates bone resorption.
<b>Tag</b>	C-His&Flag
<b>Bio-activity</b>	Measured in a cytotoxicity assay using L-929 mouse fibroblast cells in the presence

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of the metabolic inhibitor actinomycin D. The ED50 for this effect is 4-20 pg/mL.

**Molecular Mass** 19.9 kDa

**Endotoxin** Less than 1.0 EU/μg by the LAL method.

**Purity** >95% as determined by SDS-PAGE.

**Storage** Please avoid repeated freeze-thaw cycles. Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade. It is recommended that aliquot the reconstituted solution to minimize freeze-thaw cycles.

**Storage Buffer** Lyophilized from a 0.2 μm filtered solution of PBS, pH7.4, 5% Trehalose, 5% mannitol.

**Reconstitution** Reconstitute at 250 μg/mL in sterile water.

## GENE INFORMATION

**Gene Name** [Tnf tumor necrosis factor \[ Mus musculus \(house mouse\) \]](#)

**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](#)

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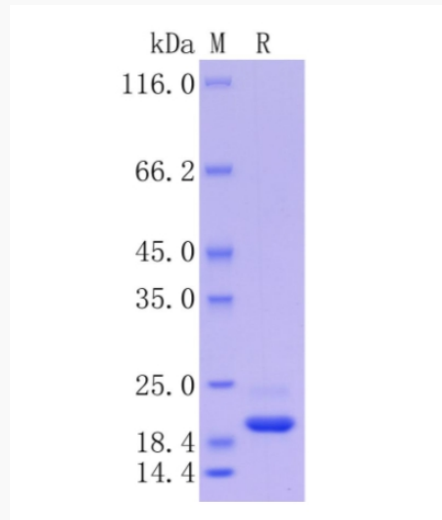
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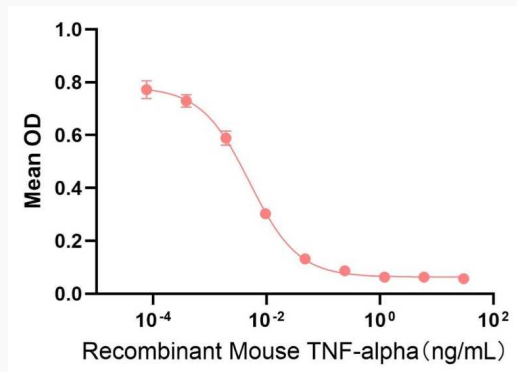
**Protein Refseq** NP\_038721

**UniProt ID** P06804

**Protein on SDS-PAGE under reducing (R) condition.**



**Activity**



Measured in a cytotoxicity assay using L-929 mouse fibroblast cells in the presence of the metabolic inhibitor actinomycin D. The ED50 for this effect is 4-20 pg/mL.

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