

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

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

SPECIFICATION

Product Overview	Recombinant mouse TNF-alpha protein (P06804) (Leu 80-Leu 235) with both His, Flag tag at the C-terminus was expressed in HEK293.
Species	Mouse
Source	HEK293
ProteinLength	80-235aa
Description	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.
Tag	C-His&Flag
Bio-activity	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-α; TNF alpha; cachectin; tumor necrosis factor alpha; tumor necrosis factor-α; tumor necrosis factor ligand superfamily member 2; DIF; Tnfa; TNFSF2; Tnfsf1a; TNFalpha; TNF-α; MGC151434;
Gene ID	21926
mRNA Refseq	NM_013693

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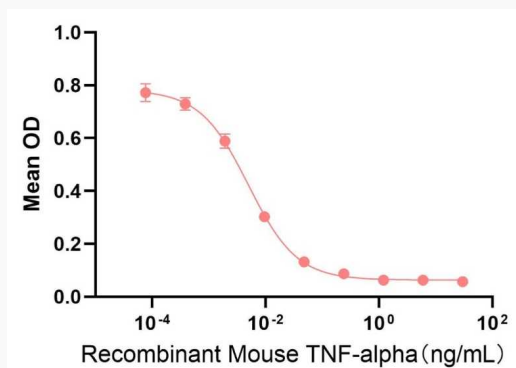
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Protein Refseq NP_038721

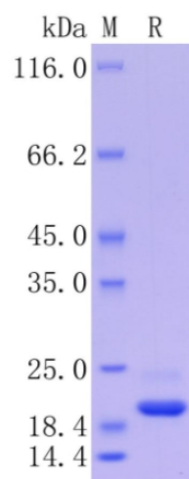
UniProt ID P06804

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.

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



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