

Active Recombinant Human TNF protein

Cat. No. TNF-242H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TNF was expressed in E. coli.
Species	Human
Source	E.coli
Description	This gene encodes a multifunctional proinflammatory cytokine that belongs to the tumor necrosis factor (TNF) superfamily. This cytokine is mainly secreted by macrophages. It can bind to, and thus functions through its receptors TNFRSF1A/TNFR1 and TNFRSF1B/TNFR. This cytokine is involved in the regulation of a wide spectrum of biological processes including cell proliferation, differentiation, apoptosis, lipid metabolism, and coagulation. This cytokine has been implicated in a variety of diseases, including autoimmune diseases, insulin resistance, and cancer. Knockout studies in mice also suggested the neuroprotective function of this cytokine.
Form	Lyophilized from a 0.2 M filtered solution of 20mM Phosphate buffer, 150mM NaCl, pH 7.0.
Bio-activity	ED50 is less than 0.03 ng/ml as determined by the cytotoxicity of murine L929 cells in the presence of Actinomycin D. Specific Activity of 3.0×10^7 IU/mg.
Molecular Mass	17.5 kDa
Purity	>95% as determined by SDS-PAGE and Coomassie blue staining

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Storage	Stable for at least 6 months from date of receipt under proper storage and handling conditions.
Concentration	Resuspend the protein to the desired concentration in proper buffer.
GENE INFORMATION	
Gene Name	TNF tumor necrosis factor [Homo sapiens]
Official Symbol	TNF
Synonyms	TNF; tumor necrosis factor; TNFA, tumor necrosis factor (TNF superfamily, member 2); DIF; TNF superfamily, member 2; TNF alpha; TNFSF2; TNF-a; cachectin; APC1 protein; TNF, monocyte-derived; TNF, macrophage-derived; TNF superfamily, member 2; tumor necrosis factor alpha; tumor necrosis factor-alpha; tumor necrosis factor ligand superfamily member 2; TNFA; TNF-alpha;
Gene ID	7124
mRNA Refseq	NM_000594
Protein Refseq	NP_000585
MIM	191160
UniProt ID	P01375