

Recombinant Human TNF Protein, His-tagged

Cat. No. TNF-001H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TNF Protein (77-233 aa (partial, without signal peptide)) with 6xHis tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	77-233
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.
Molecular Mass	18.4 kDa
Purity	>90% confirmed by 10% SDS-PAGE stained with Coomassie Blue (CB), immunoblotting with anti-TNFα (WB).
Applications	ELISA, Western Blot, Antibody Production, Protein array

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Quality Control Test	15% SDS-PAGE stained with Coomassie Blue (CB), immunoblotting with anti-TNFα (WB) and peptide fingerprinting by MALDI-TOF mass spectrometry.
Storage	Prior to reconstitution, store the lyophilized protein at 2–8 centigrade. After reconstitution, store in working aliquots at –80 centigrade.
Expiry	All components are stable for 1 year of receipt, if stored properly.
Storage Buffer	20mM Sodium Phosphate, 0.5M NaCl, pH 7.4. No preservatives added.
Shipping	Lyophilized at Ambient temperature
GENE INFORMATION	
Gene Name	TNF tumor necrosis factor [Homo sapiens (human)]
Official Symbol	TNF
Synonyms	TNF; tumor necrosis factor; DIF; TNFA; TNFSF2; TNLG1F; TNF-alpha; tumor necrosis factor; APC1 protein; TNF, macrophage-derived; TNF, monocyte-derived; TNF-a; cachectin; tumor necrosis factor ligand 1F; tumor necrosis factor ligand superfamily member 2; tumor necrosis factor-alpha
Gene ID	7124
mRNA Refseq	NM_000594
Protein Refseq	NP_000585
MIM	191160

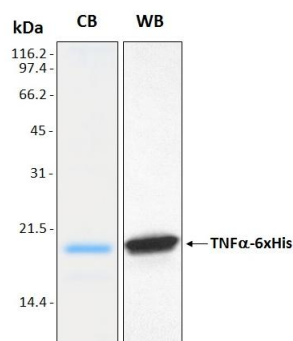
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UniProt ID

P01375

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