

## Recombinant Human TNF Protein, His-tagged

Cat. No. TNF-2001H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human TNF-alpha Protein is produced by E. coli expression system. The target protein is expressed with sequence (Val77-Leu233) of human TNF-alpha (Accession #NP_000585.2) fused with an initial Met at the N-terminus and a 6xHis tag at the C-terminus.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	Val77-Leu233
<b>Description</b>	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.
<b>Form</b>	Lyophilized from sterile PBS, pH 7.4, 5 % trehalose, 5 % mannitol.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.

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<b>Purity</b>	> 90% as determined by SDS-PAGE
<b>Stability</b>	Samples are stable for up to twelve months from date of receipt at -70°C.
<b>Storage</b>	Store it under sterile conditions at -20°C~-70°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
<b>Reconstitution</b>	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

## GENE INFORMATION

<b>Gene Name</b>	tumor necrosis factor [ Homo sapiens (human) ]
<b>Official Symbol</b>	TNF
<b>Synonyms</b>	DIF;TNF-alpha;TNFA;TNFSF2;TNLG1F
<b>Gene ID</b>	7124
<b>mRNA Refseq</b>	NM_000594.3
<b>Protein Refseq</b>	NP_000585.2
<b>MIM</b>	191160
<b>UniProt ID</b>	P01375

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