

Recombinant Human TNF Protein, His-tagged

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

SPECIFICATION

Product Overview	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 6×His tag at the C-terminus.
Species	Human
Source	E.coli
ProteinLength	Val77-Leu233
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 sterile PBS, pH 7.4, 5 % trehalose, 5 % mannitol.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.

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Purity	> 90% as determined by SDS-PAGE
Stability	Samples are stable for up to twelve months from date of receipt at -70°C.
Storage	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.
Reconstitution	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

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

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