

Active Recombinant Full Length Human TNF Protein, C-Flag-tagged

Cat. No. TNF-13HFL Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human TNF Protein, fused to Flag-tag at C-terminus, was expressed in HEK293T.
Species	Human
Source	HEK293
Description	<p>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, psoriasis, rheumatoid arthritis ankylosing spondylitis, tuberculosis, autosomal dominant polycystic kidney disease, and cancer. Mutations in this gene affect susceptibility to cerebral malaria, septic shock, and Alzheimer disease. Knockout studies in mice also suggested the neuroprotective function of this cytokine.</p>
Form	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Bio-activity	Cell treatment
Molecular Mass	25.5 kDa

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AA Sequence	MSTESMIRDVELAEEALPKKTGGPQGSRRCLFSLFSFLIVAGATTLFCLLHFGVIGP QREEFPRDLSLI SPLAQAVRSSSRTPSDKPVAVHVVANPQAEGQLQWLNRRANALLA NGVELRDNQLVVPSEGLYLIYSQVLF KGQGCPSTHVLLTHTISRIVSYQTKVNLLSA IKSPCQRETPEGAEAKPWYEPYILGGVFQLEKGDRLSA EINRPDYLDFAESGQVYF GIIAL TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Notes	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>0.05 g/μ as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Secreted Protein, Transcription Factors, Transmembrane
Protein Pathways	Adipocytokine signaling pathway, Allograft rejection, Alzheimer's disease, Amyotrophic lateral sclerosis (ALS), Apoptosis, Asthma, Cytokine-cytokine receptor interaction, Dilated cardiomyopathy, Fc epsilon RI signaling pathway, Graft-versus-host disease, Hematopoietic cell lineage, Hypertrophic cardiomyopathy (HCM), MAPK signaling pathway, Natural killer cell mediated cytotoxicity, NOD-like receptor signaling pathway, RIG-I-like receptor signaling pathway, Systemic lupus erythematosus, T cell receptor signaling pathway, TGF-beta signaling pathway, Toll-

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like receptor signaling pathway, Type I diabetes mellitus, Type II diabetes mellitus

Full Length Full L.

GENE INFORMATION

Gene Name TNF tumor necrosis factor [Homo sapiens (human)]

Official Symbol TNF

Synonyms DIF; TNFA; TNFSF2; TNLG1F; TNF-alpha

Gene ID 7124

mRNA Refseq NM_000594.4

Protein Refseq NP_000585.2

MIM 191160

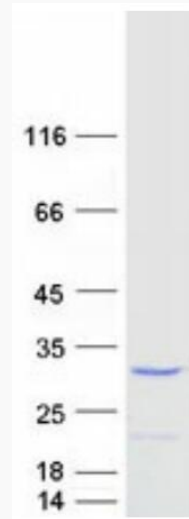
UniProt ID P01375

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SDS-PAGE



Coomassie blue staining of purified TNF protein.

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