

Recombinant Human TNF Protein, His-tagged

Cat. No. TNF-02H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Tumor necrosis factor alpha (TNF α , TNF- α) soluble form (P01375 77-233) with a C-terminal His-tag was produced in <i>Nicotiana benthamiana</i> by Agrobacterium-mediated transient expression.
Species	Human
Source	Nicotiana Benthamiana
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, 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.
Form	Lyophilized
Molecular Mass	19.1 kDa (+ Glycosylation)

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Purity	97%
Storage	Lyophilized materials are stable for up to twelve months from date of receipt at -70 centigrade. It is recommended that reconstituted protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Storage Buffer	PBS pH7.4, 175 mM Trehalose.
Shipping	At ambient temperature.

GENE INFORMATION

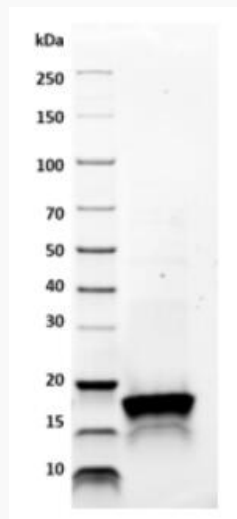
Gene Name	TNF tumor necrosis factor [Homo sapiens (human)]
Official Symbol	TNF
Synonyms	TNF; tumor necrosis factor; DIF; TNFA; TNFSF2; TNLG1F; TNF-alpha; tumor necrosis factor; APC1 protein; TNF, macrophage-derived; TNF, monocyte-derived; TNF-a; tumor necrosis factor ligand 1F; tumor necrosis factor ligand superfamily member 2; tumor necrosis factor-alpha
Gene ID	7124
mRNA Refseq	NM_000594
Protein Refseq	NP_000585
MIM	191160
UniProt ID	P01375

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SDS-PAGE



Reducing 4-20% SDS-PAGE analysis of 6 μ g TNF α .

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