

Recombinant Human TNF Protein

Cat. No. TNF-79H Lot. No. (See product label)

SPECIFICATION

Product Overview

TNF-alpha was produced in E. coli cells transformed with human TNF-alpha gene. This product is sterile and does not contain any components of animal origin.

Species

Human

Source

E.coli

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.

AA Sequence

GPQREEFPRDLSLISPLAQAVRSSSRTPSDKPVAVHVVANPQAEGLQWLNRRANAL
LANGVELRDNQLVVPSEGLYLIYSQVLFKGGQCPSTHVLLTHTISRIAVSYQTKVNLL
SAIKSPCQRETPEGAEAKPWYEPIYLGGVFQLEKGDRLSAEINRPDYLDFAESGQVY
FGIIAL

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Purity	> 95% by SDS-PAGE
Quality Control Test	Verified by Mass Spectrometry analysis.
Storage	Avoid repeated freeze-thaw cycles. 12 months at -20 to -80 centigrade. 1 month at 2 to 8 centigrade.
Concentration	0.5 mg/mL
Storage Buffer	Sterile filtered through a 0.2 micron filter in 50% glycerol, 10 mM Tris buffer at pH 8, 50 mM NaCl
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; tumor necrotic factor alpha
Gene ID	7124
mRNA Refseq	NM_000594
Protein Refseq	NP_000585
MIM	191160

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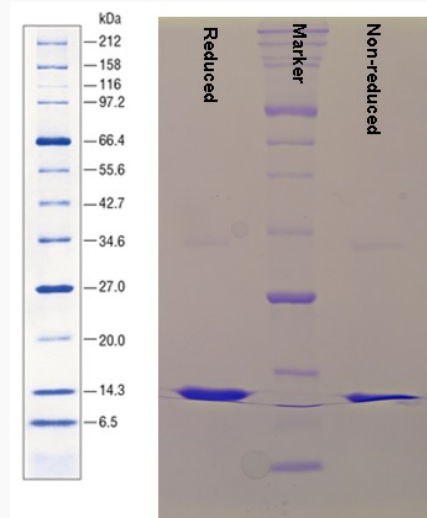
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UniProt ID

P01375

SDS-PAGE



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