

Recombinant Human TNF Protein

Cat. No. TNF-62H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TNF Protein was expressed in E. coli.
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.
Form	Liquid. In 100 mM Tris-HCl pH8.0, 100 mM NaH ₂ PO ₄ .
Molecular Mass	~55.6 kDa
AA Sequence	MTHHHHHHAGGAENLYFQGSACDCRGDCFCGGGSSVRSSSRTPSDKPVAHVVANP QAEGQLQWLNRRANALLANGVELRDNQLVVPSEGLYLIYSQVLFKGQGCPSTHVLL THTISRIAVSYQTKVNLLSAIKSPCQRETPEGAEAKPWYEPIYLGGVFQLEKGDRLSA

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EINRPDYLDFAESGQVYFGIILVRSSSRTPSDKPVAVHVVANPQAEGQLQWLNRRAN
 ALLANGVELRDNQLVVPSEGLYLIYSQVLFKGQGCPSTHVLLTHTISRIAVSYQTKVN
 LLSAIKSPCQRETPEGAEAKPWYEPIYLGGVFQLEKGDRLSAEINRPDYLDFAESGQ
 VYFGIILVRSSSRTPSDKPVAVHVVANPQAEGQLQWLNRRANALLANGVELRDNQL
 VVPSEGLYLIYSQVLFKGQGCPSTHVLLTHTISRIAVSYQTKVNLLSAIKSPCQRETPE
 GAEAKPWYEPIYLGGVFQLEKGDRLSAEINRPDYLDFAESGQVYFGIIL

Purity >90%

Storage Short Term Storage at 4 centigrade, Long Term, please prepare aliquots with 20% glycerol and store at -20 to -80 centigrade. Avoid freeze/thaw cycles.

Concentration 0.05 mg/ml

Official Full Name Tumor necrosis factor

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

Protein Refseq NP_000585

MIM 191160

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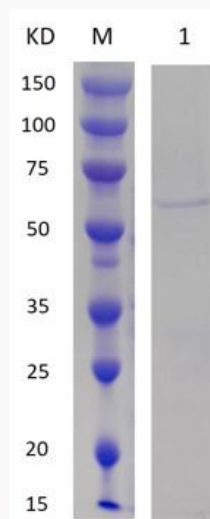
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UniProt ID

P01375

SDS-PAGE



15% SDS-PAGE analysis profiles of purified RGD4CscTNF (CBB stained).

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