

Active Recombinant Human TNF Protein (157 aa)

Cat. No. TNF-304T Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human Tumor Necrosis Factor-alpha (TNF- α) produced in E. coli is a single non-glycosylated polypeptide chain containing 157 amino acids. A fully biologically active molecule, rhTNF- α has a molecular mass of 17.3 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques.

Species Human

Source E.coli

ProteinLength 157

Description Tumor Necrosis Factor-alpha (TNF- α) is a homotrimer with a subunit molecular mass of 17.3 kDa. Tumor Necrosis Factor-alpha(TNF- α) plays a major role in growth regulation, differentiation, inflammation, viral replication, tumorigenesis, and autoimmune diseases; and in viral, bacterial, fungal, and parasitic infections. Besides inducing hemorrhagic necrosis of tumors, TNF has been found to be involved in tumorigenesis, tumor metastasis, viral replication, septic shock, fever, inflammation, and autoimmune diseases including Crohn's disease, and rheumatoid arthritis as well as graft-versus-host disease.

Form Sterile Filtered White lyophilized (freeze-dried) powder.

Bio-activity ED50 < 30 pg/mL, measured in a cytotoxicity assay using L-929 mouse fibrosarcoma cells in the presence of the metabolic inhibitor actinomycin D, corresponding to a specific activity of > 3.3 7 units/mg.

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Molecular Mass	17.3 kDa, observed by reducing SDS-PAGE.
AA Sequence	VRSSSRTPSDKPVAVHVVANPQAEGQLQWLNRRANALLANGVELRDNQLVVPSEGL YLIYSQVLFKGQGCPSTHVLLTHTISRIAVSYQTKVNLLSAIKSPCQRETPEGAEAKP WYEPIYLGGVFQLEKGDRLSAEINRPDYLDFAESGQVYFGIIAL
Endotoxin	Less than 0.2 EU/μg determined by LAL test.
Purity	> 98% as analyzed by SDS-PAGE and HPLC.
Storage	Lyophilized recombinant Human Tumor Necrosis Factor-alpha (TNF-α), remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, human TNF-α should be stable up to 1 week at 4 centigrade or up to 3 months at -20 centigrade.
Storage Buffer	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH ₂ O or PBS at 100 μg/mL.

GENE INFORMATION

Gene Name	TNF tumor necrosis factor [Homo sapiens]
Official Symbol	TNF
Synonyms	TNF; tumor necrosis factor; TNFA, tumor necrosis factor (TNF superfamily, member 2); DIF; TNF superfamily; member 2; TNF alpha; TNFSF2; TNF-α; cachectin; APC1 protein; TNF, monocyte-derived; TNF, macrophage-derived; TNF superfamily, member 2; tumor necrosis factor alpha; tumor necrosis factor-alpha; tumor necrosis factor ligand superfamily member 2; TNFA; TNF-alpha;

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Gene ID	7124
mRNA Refseq	NM_000594
Protein Refseq	NP_000585
MIM	191160
UniProt ID	P01375

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