

Recombinant Human Tumor Necrosis Factor, His-tagged

Cat. No. TNF-379H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant HumanTNF-a His produced in E. coli is a single, non-glycosylated, polypeptidechain containing 157 amino acids fragment (77-233) and having a MW 21.85 kDawith an amino-terminal hexahistidine tag.
Species	Human
Source	E.coli
ProteinLength	77-233 a.a.
Description	Tumor necrosisfactor-alpha is the best-known member of this class, and sometimes referredto when the term tumor necrosis factor is used. TNF is a monocyte-derivedcytotoxin that has been implicated in tumour regression, septic shock andcachexia.
Form	Recombinant humanTNF-a-His (0.75 mg/ml) is supplied in 10 mM Tris + 0.1M NaCl + 50% glycerol.
Purity	Greater than 95.0%as determined by analysis by RP-HPLC and by SDS-PAGE.
Storage	Store at 2-4°C ifentire vial will be used within 2-4 weeks. Store, frozen at -20°C for longerperiods of time. Please avoid freeze-thaw cycles.
OfficialSymbol	TNF

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Pathways

Adipocytokinesignaling pathway; Adipogenesis; African trypanosomiasis; Allograftrejection; Alzheimer" s disease; Amoebiasis; Amyotrophic lateral sclerosis(ALS); Angiopoietin receptor Tie2-mediated signaling; Antigen processing andpresentation; Apoptosis; Asthma; Calcineurin-regulated NFAT-dependenttranscription in lymphocytes; Canonical NF-kappaB pathway; Caspase cascade inapoptosis; Cellular roles of Anthrax toxin; Ceramide signaling pathway

GENE INFORMATION
Gene Name

TNF tumor necrosis factor [Homosapiens]

Synonyms

TNF;tumor necrosis factor; DIF; TNFA; TNFSF2; TNF-alpha; TNF-a; cachectin;APC1 protein; OTTHUMP00000029281; TNF, monocyte-derived; TNF,macrophage-derived; TNF superfamily, member 2; tumor necrosis factor alpha;tumor necrosis factor-alpha; tumor necrosis factor ligand superfamily member2; Tumornecrosis factor; Cachectin

Gene ID

7124

mRNA Refseq

NM_000594

Protein Refseq

NP_000585

MIM

191160

UniProt ID

P01375

**Chromosome
Location**

6p21.3

Function

cytokine activity; identicalprotein binding; protease binding; protein binding; transcription regulatoryregion DNA binding; tumor necrosis factor receptor binding

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PDB structure 2TNF.