

## Recombinant Human Tumor Necrosis Factor

Cat. No. TNF-378H Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant human TNFalpha is expressed in human 293 cells and has been shown by gel filtration to be predominantly a non-covalently linked homotrimer, with a molecular mass of 51 kDa.

**Species** Human

**Source** HEK293

**Description** Tumor necrosis factor-alpha is the best-known member of this class, and sometimes referred to when the term tumor necrosis factor is used. TNF is a monocyte-derived cytotoxin that has been implicated in tumour regression, septic shock and cachexia.

**Purity** >95% The protein was resolved by SDS polyacrylamide gel electrophoresis and the gel was stained with Coomassie blue.

**Molecular Mass** 17 kDa, non-disulfide bonded homotrimer, glycosylate.

**Endotoxin Level** Endotoxin Free <1 EU/μg

**Biological Activity** 0.05 to 0.5 ng/mL ED50

**Specific Activity** The specific activity was determined by the dose-dependent cytotoxicity of the TNF alpha sensitive cell line L-929 in the presence of Actinomycin D.

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<b>OfficialSymbol</b>	TNF
<b>Pathways</b>	Adipocytokinesignaling pathway; Adipogenesis; African trypanosomiasis; Allograftrejection; Alzheimer" s disease; Amoebiasis; Amyotrophic lateral sclerosis(ALS); Angiotensin 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
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	TNF tumor necrosis factor [ <a href="#">Homosapiens</a> ]
<b>Synonyms</b>	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
<b>Gene ID</b>	<a href="#">7124</a>
<b>mRNA Refseq</b>	<a href="#">NM_000594</a>
<b>Protein Refseq</b>	<a href="#">NP_000585</a>
<b>MIM</b>	<a href="#">191160</a>
<b>UniProt ID</b>	P01375
<b>Chromosome Location</b>	6p21.3

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**Function**

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

**PDB structure 2TNF.**

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