

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, glycosylated.
Endotoxin Level	Endotoxin Free <1 EU/μg
Biological Activity	0.05 to 0.5 ng/mL ED ₅₀
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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OfficialSymbol	TNF
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

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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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