

Recombinant Human TNF, Fc Chimera

Cat. No. TNF-413H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human extracellular domain of TNF- α (aa 85-233) produced in <i>CHO</i> cells fused at the N-terminus to the Fc portion of human IgG1 and a linker peptide (20 aa), 48kDa.
Species	Human
Source	CHO
ProteinLength	85-233 a.a.
Description	Tumor necrosis factor is a cytokine involved in systemic inflammation and is a member of a group of cytokines that all stimulate the acute phase reaction. TNF is mainly secreted by macrophages. TNF causes apoptotic cell death, cellular proliferation, differentiation, inflammation, tumorigenesis and viral replication, TNF is also involved in lipid metabolism, and coagulation. TNF's primary role is in the regulation of immune cells. Dysregulation and, in particular, overproduction of TNF have been implicated in a variety of human diseases-autoimmune diseases, insulin resistance, and cancer.
Purity	$\geq 95\%$ (SDS-PAGE).
Formulation	Lyophilized. Contains PBS.
Endotoxin Content	< 0.1 EU/g protein (LAL-test).

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Concentration	0.1mg/ml after reconstitution.
Reconstitution	Reconstitute with 100µsterile water. Further dilutions should be made with medium containing 5% fetal calf serum or a carrier protein.
Biological Activity	Induces killing of WEHI-164 cells in a concentration range of 0.5-2ng/ml (does not require an enhancer).
Application	Flow Cytometry (1:100), Immunoprecipitation (1:500).
Specificity	Binds to human and mouse TNF-R1 and TNF-R2.
Long Term Storage	-20°C.
Use/Stability	Stable for at least 6 months after receipt when stored at -20°C.
Handling	Avoid freeze/thaw cycles. After reconstitution, prepare aliquots and store at -20°C.

GENE INFORMATION

Gene Name	TNF tumor necrosis factor (TNF superfamily, member 2) [Homo sapiens]
Synonyms	TNF; tumor necrosis factor (TNF superfamily, member 2); DIF; TNFA; TNFSF2; TNF-alpha; Tumor necrosis factor; Tumor necrosis factor ligand; TNF-a; Cachectin; Tumor necrosis factor, membrane form; Tumor necrosis factor, soluble form; superfamily member 2; OTTHUMP00000029281; OTTHUMP00000037669; cachectin; APC1 protein; TNF superfamily, member 2; TNF, macrophage-derived; TNF, monocyte-derived; Tumor necrosis factor ligand superfamily member 2; tumor necrosis factor (TNF superfamily, member 2); tumor necrosis factor alpha
Gene ID	7124

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mRNA Refseq	NM_000594
Protein Refseq	NP_000585
MIM	91160
UniProt ID	P01375
Chromosome Location	6p21.3
Pathway	Adipocytokine signaling pathway; Allograft rejection; Alzheimer"s disease; Alzheimer"s disease; Amyotrophic lateral sclerosis (ALS); Apoptosis; Asthma; Cytokine-cytokine receptor interaction; Fc epsilon RI signaling pathway; Graft-versus-host disease; Hypertrophic cardiomyopathy (HCM); Hematopoietic cell lineage; MAPK signaling pathway; Natural killer cell mediated cytotoxicity; RIG-I-like receptor signaling pathway; Systemic lupus erythematosus; T cell receptor signaling pathway; TGF-beta signaling pathway; Toll-like receptor signaling pathway; Type I diabetes mellitus; Type II diabetes mellitus; Apoptosis; Hematopoietic cell lineage
Function	cytokine activity; identical protein binding; tumor necrosis factor receptor binding

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PDB rendering based
on 1TNF.



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