

Active Recombinant Human TNF Protein, Animal Free

Cat. No. TNF-49H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human TNF Protein without tag was expressed in Human cells. Animal Free and Xeno Free
Species	Human
Source	Human Cells
Description	Tumor necrosis factor alpha (TNF- α) is an EGF-related polypeptide growth factor that signals through the TNFRSF1A/TNFR1 and TNFRSF1B/ TNFBR. It is mainly secreted by macrophages and also produced by monocytes, keratinocytes, and various tumor cells. TNF- α stimulates the proliferation of a wide range of epidermal and epithelial cells. TNF- α is potent pyrogen causing fever by direct action or by stimulation of interleukin-1 secretion and is implicated in the induction of cachexia. Under certain conditions it can stimulate cell proliferation and induce cell differentiation, impair regulatory T cells (Treg) function in individuals with rheumatoid arthritis via FOXP3 dephosphorylation.
Bio-activity	The activity was measured by the cytotoxicity in L-929 cell in the presence of actinomycin D.
Molecular Mass	17 kDa
Endotoxin	<0.5 EU/ μ g
Purity	High Purity, >95% by SDS-PAGE

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Stability Use a manual defrost freezer and avoid repeated freeze-thaw cycles. In general: 12 months from date of receipt, -20 to -80 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -80 centigrade under sterile conditions after reconstitution.

Storage Buffer Lyophilized from a 0.2 µm filtered solution in PBS without carrier protein

Reconstitution Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein in sterile PBS containing 0.1% endotoxin-free recombinant human serum albumin.

GENE INFORMATION

Gene Name TNF tumor necrosis factor [*Homo sapiens* (human)]

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-a; 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;

Gene ID 7124

mRNA Refseq NM_000594

Protein Refseq NP_000585

MIM 191160

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UniProt ID

P01375

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