

Active Recombinant Human TNF Protein, FLAG-tagged

Cat. No. TNF-63H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human TNF-alpha with FLAG tag was expressed in E.coli.
Species	Human
Source	E.coli
Description	This gene encodes a multifunctional proinflammatory cytokine that belongs to the tumor necrosis factor (TNF) superfamily. This cytokine is mainly secreted by macrophages. It can bind to, and thus functions through its receptors TNFRSF1A/TNFR1 and TNFRSF1B/TNFR. This cytokine is involved in the regulation of a wide spectrum of biological processes including cell proliferation, differentiation, apoptosis, lipid metabolism, and coagulation. This cytokine has been implicated in a variety of diseases, including autoimmune diseases, insulin resistance, and cancer. Knockout studies in mice also suggested the neuroprotective function of this cytokine.
Form	Lyophilized
Bio-activity	Induces cell death at a concentration range of 0.01-10 ng/ml (ED50= 0.05 ng/ml or 2 x 10E7 Units/mg; WEHI 164 cells).
Molecular Mass	~17kDa
Endotoxin	<0.01 EU per 1 µg of the protein by the LAL method

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Purity	>95% by SDS-PAGE
Storage	Store at -20 to -80 centigrade in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles.
Storage Buffer	PBS
Reconstitution	10 g size: Reconstitute with 100 µsterile water. 50 g size: Reconstitute with 50 µsterile water. PBS containing at least 0.1% BSA should be used for further dilutions.

GENE INFORMATION

Gene Name	TNF tumor necrosis factor [Homo sapiens (human)]
Official Symbol	TNF
Synonyms	TNF; tumor necrosis factor; DIF; TNFA; TNFSF2; TNLG1F; TNF-alpha; tumor necrosis factor; APC1 protein; TNF, macrophage-derived; TNF, monocyte-derived; TNF-a; cachectin; tumor necrosis factor ligand 1F; tumor necrosis factor ligand superfamily member 2; tumor necrosis factor-alpha; tumor necrosis factor; APC1 protein; TNF, macrophage-derived; TNF, monocyte-derived; TNF-a; cachectin; tumor necrosis factor ligand 1F; tumor necrosis factor ligand superfamily member 2; tumor necrosis factor-alpha
Gene ID	7124
mRNA Refseq	NM_000594
Protein Refseq	NP_000585

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MIM	191160
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UniProt ID	P01375
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