Active Recombinant Human TNF Protein, FLAG-tagged

Cat. No. TNF-408H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant protein of human TNF with tracellular domain of human TNF-α (aa 85-233) is fused at the N-terminus to mouse ACRP30headless (aa 18-111) and a FLAG®-tag.
Species	Human
Source	HEK293
ProteinLength	85-233;18-111 a.a.
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/TNFBR. 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	Activates human and mouse TNF-R1 and TNF-R2. Induces cell death at a concentration range of 0.01-10 ng/ml (ED50= 0.05ng/ml or 2 x 10E7 Units/mg; WEHI 164 cells).

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Molecular Mass	~34kDa (SDS-PAGE)
Endotoxin	<0.02 EU/μg purified protein (LAL test; Lonza).
Purity	≥95% (SDS-PAGE)
Stability	Stable for at least 6 months after receipt when stored at -20 centigrade. Working aliquots are stable for up to 3 months when stored at -20 centigrade.
Storage	Short Term Storage: 4 centigrade. Long Term Storage: -20 centigrade.
Concentration	0.1 mg/mL after reconstitution.
Storage Buffer	PBS
Reconstitution	Reconstitute with 100 μL sterile water.
Handling	After reconstitution, prepare aliquots and store at -20 centigrade. Avoid freeze/thaw cycles. 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

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Gene ID	7124
mRNA Refseq	NM_000594
Protein Refseq	NP_000585
MIM	191160
UniProt ID	P01375

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