

## Active Recombinant Human TNF Protein

**Cat. No.** TNF-249H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human TNF Protein without tag was expressed in E. coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	Tumor necrosis factor alpha (TNF- $\alpha$ ) is an inflammatory cytokine secreted by macrophages, monocytes, neutrophils, T cells, and NK-cells following stimulation by bacterial lipopolysaccharide (LPS). TNF- $\alpha$ signal activation occurs through two receptors, TNFR1 and TNFR2. TNFR1 is expressed on most cell types, unlike TNFR2, which is expressed mainly on immune cells. TNF- $\alpha$ functions to stimulate phagocytosis in macrophages, chemoattract neutrophils, increase insulin resistance, and induce fever.
<b>Bio-activity</b>	Cytolysis of mouse L929 cells in the presence of Actinomycin D, $\leq 2$ ng/mL; $\geq 5.0 \times 10^5$ units/mg
<b>Molecular Mass</b>	Monomer, 17.5 kDa (158 aa)
<b>AA Sequence</b>	MVRSSSRTPSDKPVAVHVVANPQAEGQLQWLNRRANALLANGVELRDNQLVVPSEG LYLIYSQVLFKGGQCPSTHVLLTHTISRIVSYQTKVNLLSAIKSPCQRETPEGAEAKP WYEPIYLGGVFQLEKGDRLSAEINRPDYLDFAESGQVYFGIIAL
<b>Endotoxin</b>	$\leq 1$ EUs/ $\mu$ g, Kinetic LAL

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Purity</b>	≥95%, Reducing and Non-Reducing SDS PAGE
<b>Stability</b>	12 months from date of receipt when stored at -20 to -80 centigrade as supplied. 1 month when stored at 4 centigrade after reconstituting as directed.
<b>Storage</b>	Storage Prior to Reconstitution: -20 centigrade
<b>Storage Buffer</b>	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium phosphate, pH 7.5
<b>Reconstitution</b>	Sterile water at 0.1 mg/mL
<b>Shipping</b>	Room temperature
<b>Instructions</b>	Centrifuge vial before opening. Suspend the product by gently pipetting the above recommended solution down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution.

## GENE INFORMATION

<b>Gene Name</b>	TNF tumor necrosis factor [ Homo sapiens (human) ]
<b>Official Symbol</b>	TNF
<b>Synonyms</b>	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;

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA



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

Tel: 1-631-559-9269 1-516-512-3133

Email: [info@creative-biomart.com](mailto:info@creative-biomart.com) Fax: 1-631-938-8127

45-1 Ramsey Road, Shirley, NY 11967, USA