

## Active Recombinant Human TNF

Cat. No. TNF-1452H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human TNF- $\alpha$ produced in E.coli is a single, non-glycosylated, polypeptide chain containing 157 amino acids, two pairs of disulfide bonds and having a molecular mass of approximately 17.4kDa.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	157 a.a.
<b>Description</b>	Human TNF- $\alpha$ is a 17.4kD factor produced by macrophages, monocytes, neutrophils, CD4+ T cells and NK cells. A 26kD form of TNF- $\alpha$ is expressed as a membrane bound molecule. TNF- $\alpha$ is cytolytic and plays an important role in immune regulation. Dimers and trimers of TNF- $\alpha$ have been observed.
<b>Form</b>	Lyophilized from a 0.2 $\mu$ m filtered solution in 40mM Tris-HCl, 40mM NaCl, containing 0.1% human serum albumin, pH8.0.
<b>Bio-activity</b>	Specific Activity shall be not less than $2 \times 10^7$ IU/mg.
<b>Endotoxin</b>	$\leq 1$ EU/ $\mu$ g, determined by the LAL method.
<b>Purity</b>	$\geq 95\%$ , as determined by SDS-PAGE and HPLC method.
<b>Usage</b>	FOR RESEARCH ONLY

 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

**Storage** Lyophilized samples are stable for greater than six months from date of receipt at -20 centigrade to -70 centigrade. The reconstituted samples can be stored under sterile conditions at 2-8 centigrade for one month or at -20 centigrade to -70 centigrade for three months without detectable loss of activity. Avoid repeated freeze-thaw cycles.

**Reconstitution** It is recommended to reconstitute the lyophilized rHuTNF- $\alpha$  in sterile ddH<sub>2</sub>O not less than 100 $\mu$ g/ml, containing at least 0.1% human serum albumin or bovine serum albumin be added to the vial to prepare a stock solution.

## GENE INFORMATION

**Gene Name** TNF tumor necrosis factor [ Homo sapiens ]

**Official Symbol** TNF

**Synonyms** DIF; TNFA; TNFSF2; TNF-alpha; tumor necrosis factor; APC1 protein; TNF, macrophage-derived; TNF, monocyte-derived; TNF-a; cachectin; tumor necrosis factor ligand superfamily member 2; tumor necrosis factor-alpha

**Gene ID** 7124

**mRNA Refseq** NM\_000594

**Protein Refseq** NP\_000585

**MIM** 191160

**UniProt ID** P01375

**Chromosome Location** 6p21.3

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**Pathway**

Adipocytokine signaling pathway, organism-specific biosystem; African trypanosomiasis, organism-specific biosystem; Alzheimers Disease, organism-specific biosystem

**Function**

cytokine activity; identical protein binding; protease binding

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