

Recombinant Human TNF, Biotinylated

Cat. No. TNF-279H **Lot. No.** (See product label)

SPECIFICATION

| | |
|-------------------------|--|
| Product Overview | Human TNF-alpha Protein, Biotinylated (Biotinylated TNFα) Val 77 - Leu 233, was labeled with biotin based on rhTNFα Protein, which was produced in human 293 cells (HEK293).? |
| Species | Human |
| Source | HEK293 |
| 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 from 0.22 μm filtered solution in PBS, pH7.4. Normally Trehalose are added as protectants before lyophilization. |
| Molecular Mass | Biotinylated TNFα, contains no "tag", has a calculated MW of 26 kDa. The predicted N-terminus is Val 77. DTT-reduced Protein migrates as 18kDa. |
| Endotoxin | Less than 1.0 EU per |

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

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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

| | |
|-------------------------|--|
| | µg of the Biotinylated TNFα by the LAL method. |
| Purity | >95% as determined by reduced SDS-PAGE. |
| Storage | Avoid repeated freeze-thaw cycles. No activity loss was observed after storage at: In lyophilized state for 1 year (4°C); After reconstitution under sterile conditions for 3 months (-70°C). |
| Conjugation | Biotin |
| GENE INFORMATION | |
| Gene Name | TNF tumor necrosis factor [Homo sapiens] |
| 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 |
| UniProt ID | P01375 |

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

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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

| | |
|----------------------------|--|
| Chromosome Location | 6p21.3 |
| Pathway | Adipocytokine signaling pathway, organism-specific biosystem; Adipocytokine signaling pathway, conserved biosystem; Adipogenesis, organism-specific biosystem; African trypanosomiasis, organism-specific biosystem; African trypanosomiasis, conserved biosystem; Allograft rejection, organism-specific biosystem; Allograft rejection, conserved biosystem; |
| Function | cytokine activity; identical protein binding; protease binding; protein binding; transcription regulatory region DNA binding; tumor necrosis factor receptor binding; |

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

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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