

Active Recombinant Human TNF Protein, FLAG-tagged

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

SPECIFICATION

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|-------------------------|---|
| 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 |

 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

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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

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|------------------------|--|
| 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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