

## Recombinant Human TNF Protein, His-tagged

**Cat. No.** TNF-001H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human TNF Protein (77-233 aa (partial, without signal peptide)) with 6xHis tag was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>ProteinLength</b>    | 77-233                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Description</b>      | <p>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.</p> |
| <b>Molecular Mass</b>   | 18.4 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Purity</b>           | >90% confirmed by 10% SDS-PAGE stained with Coomassie Blue (CB), immunoblotting with anti-TNFα (WB).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Applications</b>     | ELISA, Western Blot, Antibody Production, Protein array                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

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|                             |                                                                                                                                                      |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Quality Control Test</b> | 15% SDS-PAGE stained with Coomassie Blue (CB), immunoblotting with anti-TNF $\alpha$ (WB) and peptide fingerprinting by MALDI-TOF mass spectrometry. |
| <b>Storage</b>              | Prior to reconstitution, store the lyophilized protein at 2–8 centigrade. After reconstitution, store in working aliquots at –80 centigrade.         |
| <b>Expiry</b>               | All components are stable for 1 year of receipt, if stored properly.                                                                                 |
| <b>Storage Buffer</b>       | 20mM Sodium Phosphate, 0.5M NaCl, pH 7.4. No preservatives added.                                                                                    |
| <b>Shipping</b>             | Lyophilized at Ambient temperature                                                                                                                   |

## 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; 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 |
| <b>Gene ID</b>         | 7124                                                                                                                                                                                                                                                                                     |
| <b>mRNA Refseq</b>     | NM_000594                                                                                                                                                                                                                                                                                |
| <b>Protein Refseq</b>  | NP_000585                                                                                                                                                                                                                                                                                |
| <b>MIM</b>             | 191160                                                                                                                                                                                                                                                                                   |

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