

# Recombinant Human TNF Protein

**Cat. No.** TNF-54H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human Tumor Necrosis Factor alpha is produced by our E.coli expression system and the target gene encoding Val77-Leu233 is expressed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>ProteinLength</b>    | 77-233 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Description</b>      | Tumor necrosis factor alpha (TNF) is a homotrimer with a subunit molecular mass of 17 kD cytokine that binds to TNFRSF1A/TNFR1 and TNFRSF1B/TNFR. It is mainly expressed by macrophages and can trigger cell death of certain tumor cell lines. TNF is involved in a variety of biological processes including growth regulation, differentiation, inflammation, viral replication, tumorigenesis, and in viral, bacterial, fungal, and parasitic infections. In addition to inducing hemorrhagic necrosis of tumors, TNF was found to play key roles in autoimmune diseases including Crohn's disease, rheumatoid arthritis, and graft-versus-host disease. |
| <b>Form</b>             | Lyophilized from a 0.2 um filtered solution of 20mM PB, 150mM NaCl, pH7.0.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Molecular Mass</b>   | Predicted Molecular Weight: 17.3kDa<br>Apparent Molecular Weight: 14.4-18.4kDa, reducing conditions.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>AA Sequence</b>      | Val77-Leu233                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

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|                          |                                                                                                                                                                                                                                                                                                                                                                            |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Endotoxin</b>         | Less than 1 EU/ug.                                                                                                                                                                                                                                                                                                                                                         |
| <b>Purity</b>            | >94%                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Storage</b>           | <p>Lyophilized protein should be stored at &lt; -20 centigrade, though stable at room temperature for 3 weeks.</p> <p>Reconstituted protein solution can be stored at 4-7 centigrade for 2-7 days. Aliquots of reconstituted samples are stable at &lt; -20 centigrade for 3 months.</p> <p>Always centrifuge tubes before opening. Do not mix by vortex or pipetting.</p> |
| <b>Reconstitution</b>    | <p>It is not recommended to reconstitute to a concentration less than 100µg/ml.</p> <p>Dissolve the lyophilized protein in distilled water.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>                                                                                                                                           |
| <b>Quality Statement</b> | Purity: 94% SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                      |
| <b>Shipping</b>          | <p>The product is shipped at ambient temperature.</p> <p>Upon receipt, store it immediately at the temperature listed below.</p>                                                                                                                                                                                                                                           |

## GENE INFORMATION

|                        |                                                                                                                                                        |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | TNF tumor necrosis factor [ Homo sapiens (human) ]                                                                                                     |
| <b>Official Symbol</b> | TNF                                                                                                                                                    |
| <b>Synonyms</b>        | Tumor Necrosis Factor; Cachectin; TNF-Alpha; Tumor Necrosis Factor Ligand Superfamily Member 2; TNF-a; TNF; TNFA; DIF; TNFA; TNFSF2; TNLG1F; TNF-alpha |
| <b>Gene ID</b>         | 7124                                                                                                                                                   |

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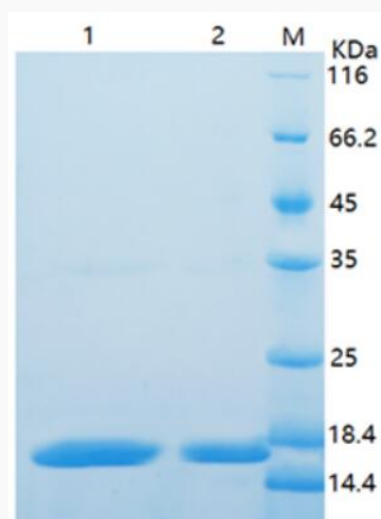
**mRNA Refseq** [NM\\_000594.4](#)

**Protein Refseq** [NP\\_000585.2](#)

**MIM** [191160](#)

**UniProt ID** [P01375](#)

**SDS-PAGE**



M: Protein Marker; 1.Reduce sample (2ug).2.Non-reduce sample (2ug).

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