

## Active Recombinant Rat TNF protein

**Cat. No.** TNF-1071R    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                   |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Rat TNF protein(P16599)(Leu80-Leu235) was expressed in E. coli.                                                                                                                                                                       |
| <b>Species</b>          | Rat                                                                                                                                                                                                                                               |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                            |
| <b>ProteinLength</b>    | Leu80-Leu235                                                                                                                                                                                                                                      |
| <b>Form</b>             | Lyophilized from sterile PBS, pH 7.4Please contact us for any concerns or special requirements. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.                                          |
| <b>Bio-activity</b>     | Measured in a cytotoxicity assay using L929 mouse fibrosarcoma cells in the presence of metabolic inhibitor actinomycin D. The ED50 for this effect is typically 1-6 pg/ml.                                                                       |
| <b>Molecular Mass</b>   | The recombinant rat TNF $\alpha$ consists of 157 amino acids and has a calculated molecular mass of 17.4 kDa. It migrates as an approximately 15.9 kDa band in SDS-PAGE under reducing conditions.                                                |
| <b>Purity</b>           | > 93 % as determined by SDS-PAGE                                                                                                                                                                                                                  |
| <b>Storage</b>          | Samples are stable for up to twelve months from date of receipt at -20°C to -80°C<br>Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. |

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**Reconstitution**

It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

**GENE INFORMATION**

|                  |                                                        |
|------------------|--------------------------------------------------------|
| <b>Gene Name</b> | Tnf tumor necrosis factor [ <i>Rattus norvegicus</i> ] |
|------------------|--------------------------------------------------------|

|                        |     |
|------------------------|-----|
| <b>Official Symbol</b> | TNF |
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|                 |                                                                                                                                                                                                               |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Synonyms</b> | TNF; tumor necrosis factor; cachectin; tumor necrosis factor alpha; tumor necrosis factor (TNF superfamily, member 2); tumor necrosis factor ligand superfamily member 2; Tnfa; RATTNF; TNF-alpha; MGC124630; |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                |       |
|----------------|-------|
| <b>Gene ID</b> | 24835 |
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| <b>mRNA Refseq</b> | NM_012675 |
|--------------------|-----------|

|                       |           |
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| <b>Protein Refseq</b> | NP_036807 |
|-----------------------|-----------|

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