

Recombinant Rat Tnf protein, His/S-tagged

Cat. No. Tnf-237R **Lot. No.** (See product label)

SPECIFICATION

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|-------------------------|---|
| Product Overview | Recombinant Rat Tnf fused with His/S tag was expressed in E. coli. |
| Species | Rat |
| Source | E.coli |
| Description | Tumor necrosis factor alpha (TNF-alpha), also known as TNF, TNFA or TNFSF2, is the prototypic cytokine of the TNF superfamily, and is a multifunctional molecule involved in the regulation of a wide spectrum of biological processes including cell proliferation, differentiation, apoptosis, lipid metabolism, and coagulation. Two receptors, TNF-R1 (TNF receptor type 1; CD120a; p55/60) and TNF-R2 (TNF receptor type 2; CD120b; p75/80), bind to TNF-alpha. TNF-alpha protein is produced mainly by macrophages, and large amounts of this cytokine are released in response to lipopolysaccharide, other bacterial products, and Interleukin-1 (IL-1). TNF-alpha is involved in fighting against the tumorigenesis, thus, is regarded as a molecular insight in cancer treatment. |
| Form | Lyophilized from sterile PBS, pH 7.4 |
| Purity | > 95 % as determined by SDS-PAGE |
| Storage | Store at -70 centigrade. Avoid repeated freeze/thaw cycles. |

GENE INFORMATION

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|----------------------------|---|
| Gene Name | Tnf tumor necrosis factor [<i>Rattus norvegicus</i>] |
| Official Symbol | Tnf |
| Synonyms | 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; |
| Gene ID | 24835 |
| mRNA Refseq | NM_012675 |
| Protein Refseq | NP_036807 |
| UniProt ID | P16599 |
| Chromosome Location | 20p12 |
| 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; cytokine activity; identical protein binding; identical protein binding; protease binding; protease binding; transcription regulatory region DNA binding; transcription regulatory region DNA binding; tumor necrosis factor receptor binding; tumor necrosis factor receptor binding; tumor necrosis factor receptor binding; tumor necrosis factor receptor binding; |

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