

Recombinant Rabbit Tumor Necrosis Factor

Cat. No. TNF-796R Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant rabbit tumor necrosis factor alpha is a non-glycosylated cytokine produced from E. coli using rDNA technology. The protein consists of three identical polypeptide chains of 158 amino acids combined to form a compact, bell-shaped homotrimer. The individual subunit has a relative molecular mass of 17.4 KD.
Species	Rabbit
Source	E.coli
Description	Tumor necrosis factor alpha (TNF α , also known as cachectin and TNFSF1A), is the prototypic ligand of the TNF superfamily. TNF α forms a homotrimer and functions by activating two types of receptors TNF-R1 (TNF receptor type 1, p55R) and TNF-R2 (TNF receptor type 2, p75R). TNF α is a pleiotropic cytokine that is capable to promote inflammation, to induce apoptotic cell death, and to inhibit tumorigenesis and viral replication. TNF α is a potent lymphoid factor that exerts cytotoxic effects on a wide range of tumor cells and certain other target cells.
Biological Activity	The ED50 as determined by the cytolysis of murine L929 cells in the presence of Actinomycin D is less than 0.03ng/ml, corresponding to a Specific Activity of 3.0×10^7 IU/mg.
Purity	Greater than 95% as determined by (a) Analysis by RP-HPLC; (b) Analysis by reducing and non-reducing SDS-PAGE Silver Stained gel.

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Molecular Weight	17.4 KD+/-10% determined by reduced SDS-PAGE.
Isoelectric Point	the main zone between 4.0~5.0 analysis by IEF.
Amino-Acid Sequence	The sequence of the first five N-terminal amino acids was determined and was found to be Met-Ser-Ala-Ser-Arg.
Endotoxin	Less than 0.1ng/g (1 IEU/g) determined by LAL test.
Form	The protein was lyophilized after extensive dialysis against 20mM PB, pH7.4, 300mM NaCl.
Reconstitution	It is recommended to reconstitute the lyophilized TNF-alpha in sterile 18MΩ-cm H2O not less than 100g/ml, which can then be further diluted to other aqueous solutions.
Storage	Lyophilized samples are stable for up to twelve months from date of receipt at -20°C to -70°C.

GENE INFORMATION

Gene Name	TNF tumor necrosis factor [<i>Oryctolagus cuniculus</i>]
Official Symbol	TNF
Synonyms	TNF; TNFA; TNFSF2; tumor necrosis factor; TNF-a; TNF-alpha; cachectin; tumor necrosis factor alpha; tumor necrosis factor (TNF superfamily, member 2); tumor necrosis factor ligand superfamily member 2
Gene ID	100009088
mRNA Refseq	NM_001082263

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Protein Refseq [NP_001075732](#)

UniProt ID [P04924](#)

**Chromosome
Location** 12

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