

Active Recombinant Rabbit TNF protein

Cat. No. Tnf-311R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rabbit TNF was expressed in E. coli.
Species	Rabbit
Source	E.coli
Description	Tumor necrosis factor is a cytokine involved in systemic inflammation and is a member of a group of cytokines that all stimulate the acute phase reaction. TNF is mainly secreted by macrophages. TNF causes apoptotic cell death, cellular proliferation, differentiation, inflammation, tumorigenesis and viral replication, TNF is also involved in lipid metabolism, and coagulation. TNF's primary role is in the regulation of immune cells. Dysregulation and, in particular, overproduction of TNF have been implicated in a variety of human diseases- autoimmune diseases, insulin resistance, and cancer.
Predicted N Terminal	The sequence of the first five N-terminal amino acids was determined and was found to be Met-Ser-Ala-Ser-Arg.
Form	TNF-alpha Rabbit was lyophilized after extensive dialysis against 20mM PB, pH7.4, 300mM NaCl.
Bio-activity	The ED50 as determined by the cytotoxicity of murine L929 cells in the presence of Actinomycin D is less than 0.03ng/ml, corresponding to a Specific Activity of 30,000,000 IU/mg.

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Molecular Mass	17.4 kDa
Purity	Greater than 95% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
Stability	Lyophilized Tumor Necrosis Factor- α although stable at room temperature for 3 weeks, should be stored desiccated below -18 centigrade. Upon reconstitution TNF- α should be stored at 4 centigrade between 2-7 days and for future use below -18 centigrade.For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent freeze-thaw cycles.
Reconstitution	It is recommended to reconstitute the lyophilized Tumor Necrosis Factor- α in sterile 18M Ω -cm H ₂ O not less than 100g/ml, which can then be further diluted to other aqueous solutions.

GENE INFORMATION

Gene Name	TNF tumor necrosis factor [<i>Oryctolagus cuniculus</i>]
Official Symbol	TNF
Synonyms	TNF; tumor necrosis factor; TNF- α ; TNF- α ; cachectin; tumor necrosis factor α ; tumor necrosis factor (TNF superfamily, member 2); tumor necrosis factor ligand superfamily member 2; TNFA; TNFSF2;
Gene ID	100009088
mRNA Refseq	NM_001082263
Protein Refseq	NP_001075732

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MIM	
UniProt ID	P04924
Chromosome Location	chromosome: 12
Pathway	Adipocytokine signaling pathway, organism-specific biosystem; African trypanosomiasis, conserved biosystem; Antigen processing and presentation, organism-specific biosystem

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