

TNF-alpha, Rat Recombinant

Catalog No.	CRT102A CRT102B CRT102C	Quantity:	5 µg 20 µg 1.0 mg
Name:	Tumor necrosis factor-alpha (TNF-alpha)		
Alternate Names:	Tumor necrosis factor ligand superfamily member 2, TNF-a, Cachectin, DIF, TNFA, TNFSF2		
Description:	Recombinant rat TNF-alpha produced is a single, non-glycosylated, polypeptide chain containing 157 amino acids and has a MW = 17.3 kDa.		
Source:	<i>E. coli</i>		
Formulation:	Sterile filtered then lyophilized with no additives.		
Purity:	>97.0% as determined by RP-HPLC and SDS-PAGE		
Endotoxin Level:	<0.1 ng/µg of protein		
Biological Activity:	Determined by the cytolysis of mouse L929 cells in the presence of Actinomycin D. The ED ₅₀ is < 0.05 ng/ml.		
Specific Activity:	5 x 10 ⁷ IU/mg		
Amino Acid Sequence:	The sequence of the first five N-terminal amino acids is Met-Leu-Arg-Ser-Ser.		
Reconstitution:	Centrifuge vial prior to opening. First add sterile water to the vial to fully solubilize the protein to a concentration not less than 100 µg/ml. After complete solubilization of the protein, it can be further diluted to other aqueous solutions.		
Storage & Stability:	Lyophilized TNF-alpha is stable at room temperature for 3 weeks, but it is recommended to store the lyophilized product desiccated at -20°C to -80°C. Upon reconstitution, protein should be stored at 2-4°C for one week and for future use at -20°C to -80°C. Add a carrier protein (0.1% HSA or BSA) as a stabilizer for long term storage. Please note that the addition of any carrier protein into this product may produce unwanted endotoxin. This depends upon the particular application employed. Avoid repeated freeze-thaw cycles.		
Protein Content:	Protein quantitation was carried out by two independent methods: 1. UV spectroscopy at 280 nm using the absorbency value of 1.25 as the extinction coefficient for a 0.1% (1 mg/ml) solution. This value is calculated by the PC GENE computer analysis program of protein sequences (IntelliGenetics). 2. Analysis by RP-HPLC, using a calibrated solution of TNF-α as a Reference Standard.		

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