

## TNF-alpha, Rat Recombinant

<b>Catalog No.</b>	CRT102A CRT102B CRT102C	<b>Quantity:</b>	5 µg 20 µg 1.0 mg
<b>Name:</b>	Tumor necrosis factor-alpha (TNF-alpha)		
<b>Alternate Names:</b>	Tumor necrosis factor ligand superfamily member 2, TNF-a, Cachectin, DIF, TNFA, TNFSF2		
<b>Description:</b>	Recombinant rat TNF-alpha produced is a single, non-glycosylated, polypeptide chain containing 157 amino acids and has a MW = 17.3 kDa.		
<b>Source:</b>	<i>E. coli</i>		
<b>Formulation:</b>	Sterile filtered then lyophilized with no additives.		
<b>Purity:</b>	>97.0% as determined by RP-HPLC and SDS-PAGE		
<b>Endotoxin Level:</b>	<0.1 ng/µg of protein		
<b>Biological Activity:</b>	Determined by the cytolysis of mouse L929 cells in the presence of Actinomycin D. The ED <sub>50</sub> is < 0.05 ng/ml.		
<b>Specific Activity:</b>	5 x 10 <sup>7</sup> IU/mg		
<b>Amino Acid Sequence:</b>	The sequence of the first five N-terminal amino acids is Met-Leu-Arg-Ser-Ser.		
<b>Reconstitution:</b>	<b>Centrifuge vial prior to opening.</b> 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.		
<b>Storage &amp; Stability:</b>	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. <b>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.</b>		
<b>Protein Content:</b>	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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