

Tnf

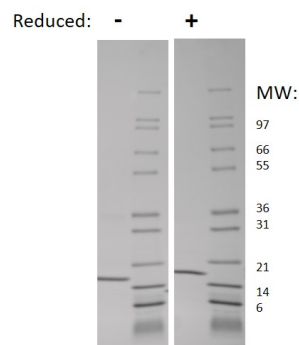
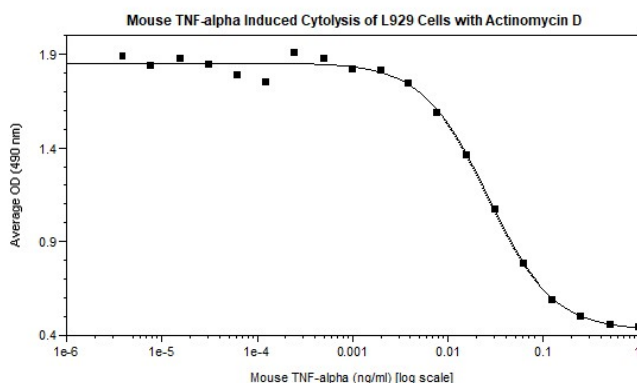
Recombinant Mouse Tumor Necrosis Factor alpha, Animal Free

Catalog No.	CRT192A-AF CRT192B-AF CRT192C-AF CRT192D-AF	Quantity:	5 µg 20 µg 1.0 mg 100 µg
Alternate Names:	TNF-alpha, Tumor necrosis factor ligand superfamily member 2, TNFSF2, Cachectin		
Description:	Tumor necrosis factor alpha (TNF-alpha) is a multifunctional proinflammatory cytokine secreted by macrophages, monocytes, neutrophils, T cells, NK-cells following their stimulation by bacterial LPS. TNF-alpha activates signals through two receptors, TNFR1, which is expressed on most cell types, and TNFR2, which is expressed mainly on immune cells. TNF-alpha can have many functions, including stimulation of phagocytosis in macrophages, chemoattraction of neutrophils, increase in insulin resistance, and inducing fever, cell proliferation, differentiation, apoptosis, lipid metabolism, and coagulation.		
Gene ID:	21926		
UniProt ID:	P06804		
Source:	<i>E. coli</i> Manufactured without Animal-derived products, in an Animal Free facility.		
Molecular Weight:	Monomer, 17.4 kDa (157 aa)		
Formulation:	Lyophilized from a sterile filtered solution containing 10 mM sodium phosphate, 50 mM sodium chloride, pH 7.5.		
Purity:	>95% by reducing and non-reducing SDS-PAGE		
Endotoxin Level:	≤ 0.1 EU/µg by kinetic LAL analysis		
Biological Activity:	ED ₅₀ ≤ 20 pg/ml, determined by cytolysis of mouse L929 cells in the presence of Actinomycin D.		
Specific Activity:	≥ 1.0 × 10 ⁷ U/mg		
Amino Acid Sequence:	MLRSSSQNSS DKPVAHVVAN HQVEEQLEWL SQRANALLAN GMDLKDNQLV VPADGLYLVY SQVLFGQGQC PDYVLLTHTV SRFAISYQEK VNLLSAVKSP CPKDTPEGAE LKPWYEPIYL GGVFQLEKGD QLSAEVNLPK YLDFAESGQV YFGVIAL		
Reconstitution:	Centrifuge vial prior to opening. Add sterile distilled water to a concentration of 0.1 mg/mL and gently pipette the solution up and down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution.		



Storage & Stability:

Store, as supplied, for up to 1 year at -20°C to -80°C Reconstituted protein is stable for one week at 4°C. For long term storage, aliquot and store at -20°C to -80°C with a carrier protein such as 0.1% HSA or BSA as a stabilizer. This depends upon the particular application employed. **Avoid repeated freeze-thaw cycles.**



Mouse TNF-a Gel

Figure: 1 ug in each lane (-) non-reducing conditions and (+) reducing conditions in a 4-20% Tris-Glycine gel, stained with Coomassie Blue. Mouse TNF alpha has a predicted MW of 17.4 kDa.

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.



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