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Tnf
Recombinant Mouse Tumor Necrosis Factor alpha

Catalog No.	CRT192A	**Quantity:**	5 µg
	CRT192B		20 µg
	CRT192C		1.0 mg
	CRT192D		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: *E. coli*

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: $ED_{50} \leq$ 20 pg/ml, determined by cytolysis of mouse L929 cells in the presence of Actinomycin D.

Specific Activity: $\geq 1.0 \times 10^7$ U/mg

Amino Acid Sequence: MLRSSSQNSS DKPVAHVVAN HQVEEQLEWL SQRANALLAN GMDLKDNQLV VPADGLYLVY SQVLFKGQGC 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.

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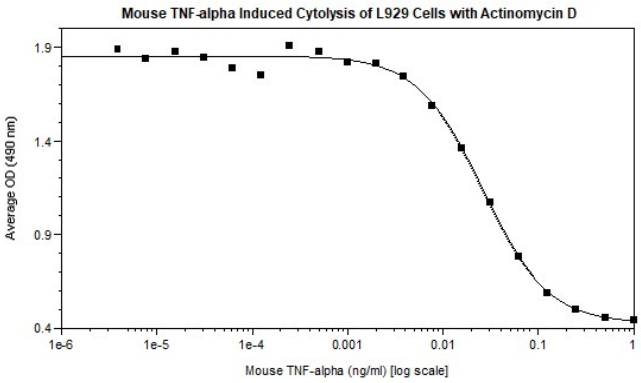
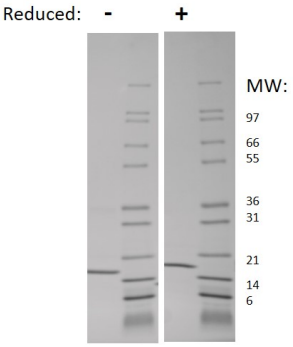
Storage & Stability: Store as supplied at -20 °C to -80 °C for up to one year. Upon reconstitution the preparation is stable for up to one month at 2- 8 °C. For long term, reconstitute in working aliquots containing 0.1 % BSA and store at -80 °C. **Avoid repeated freeze-thaw cycles.**





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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