

TNF

Recombinant Human TNF alpha, Animal Free

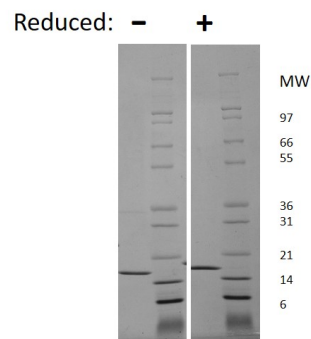
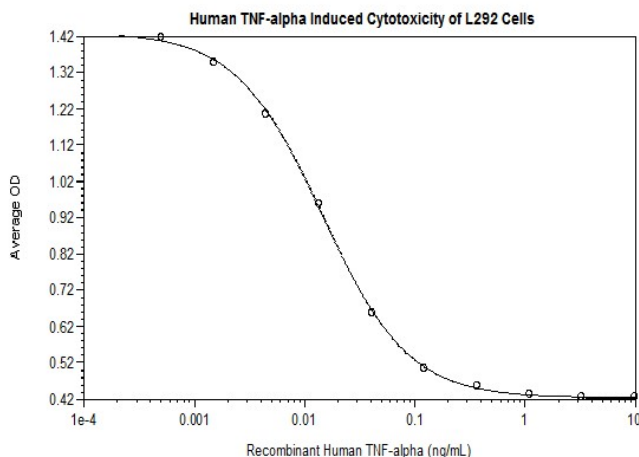
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|-----------------------------|--|------------------|--------------------------|
| Catalog No. | CRT100A-AF CRT100B-AF CRT100C-AF | Quantity: | 10 µg 50 µg 1.0 mg |
| Alternate Names: | TNF-alpha, TNFA, Cachectin, TNFSF2 | | |
| Description: | Tumor necrosis factor alpha (TNF-alpha) is a multifunctional proinflammatory cytokine that belongs to the TNF superfamily. TNF-alpha is 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, inducing fever, cell proliferation, differentiation, apoptosis, lipid metabolism, and coagulation. | | |
| Gene ID: | 7124 | | |
| UniProt ID: | P01375 | | |
| Source: | <i>E. coli</i> Manufactured without Animal-derived products, in an Animal Free facility. | | |
| Molecular Weight: | 17.5 kDa (158 aa), monomer | | |
| Formulation: | Lyophilized from a sterile filtered solution in 10 mM sodium phosphate, pH 7.5. | | |
| Purity: | ≥ 95% by reducing and nonreducing SDS-PAGE | | |
| Endotoxin Level: | ≤ 0.1 EUs/µg by kinetic LAL | | |
| Biological Activity: | ED ₅₀ ≤2 ng/ml, determined by cytolysis of mouse L929 cells in the presence of Actinomycin D. | | |
| Specific Activity: | ≥5 x 10 ⁵ U/mg | | |
| Amino Acid Sequence: | MVRSSSRTPS DKPVAHVVAN PQAEGQLQWL NRRANALLAN GVELRDNQLV VPSEGLYLIY SQVLFGQGQC PSTHVLLTHT ISRIAVSYQT KVNLLSAIKS PCQRETPEGA EAKPWYEPIY LGGVFQLEKG DRLSAEINRP DYLDFAESGQ VYFGIIAL | | |
| Reconstitution: | Centrifuge vial prior to opening. Add sterile distilled water to a concentration of 0.1 mg/mL. Suspend the product by gently pipetting solution down sides of vial. DO NOT VORTEX. Allow several minutes for complete reconstitution. | | |



Storage & Stability:

Store as supplied at -20°C to -80°C for up to 1 year. Upon reconstitution, prepare working aliquots and store at -20°C to -80°C. It is recommended that a carrier protein such as 0.1% HSA or BSA is added for long term storage.

Avoid repeated freeze-thaw cycles.



Human TNF alpha

Figure: 1 ug in each lane (-) non-reducing conditions and (+) reducing conditions in a 4-20% Tris-Glycine gel, stained with Coomassie Blue. Human TNF alpha has a predicted MW of 17.5 kDa.

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



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