


Mouse TNF- α protein

Cat #: PRP1113

Size: 5 μ g/20 μ g/100 μ g/1 mg

Product Information

	Product Name: Mouse TNF- α protein		
REF	Catalog Number: PRP1113	LOT	Lot Number: Refer to product label
	Purity: >95% as determined by SDS-PAGE		
	Storage: Store at -20°C		Preparation method: <i>E. coli</i>
	Shipping: The product is shipped at below ambient temperature.		

Background: Tumor necrosis factor alpha (TNF- α), also known as cachectin and TNFSF2, is a pleiotropic pro-inflammatory cytokine secreted by various cells including adipocytes, activated monocytes, macrophages, B cells, T cells and fibroblasts. It belongs to the TNF family of ligands and signals through two receptors, TNFR1 and TNFR2. TNF- α is cytotoxic to a wide variety of tumor cells and is an essential factor in mediating the immune response against bacterial infections. TNF- α also plays a role in the induction of septic shock, auto immune diseases, rheumatoid arthritis, inflammation, and diabetes.

Sequence: Amino acid sequence derived from Mouse TNF- α isoform (P06804) (Leu80-Leu235) was expressed.

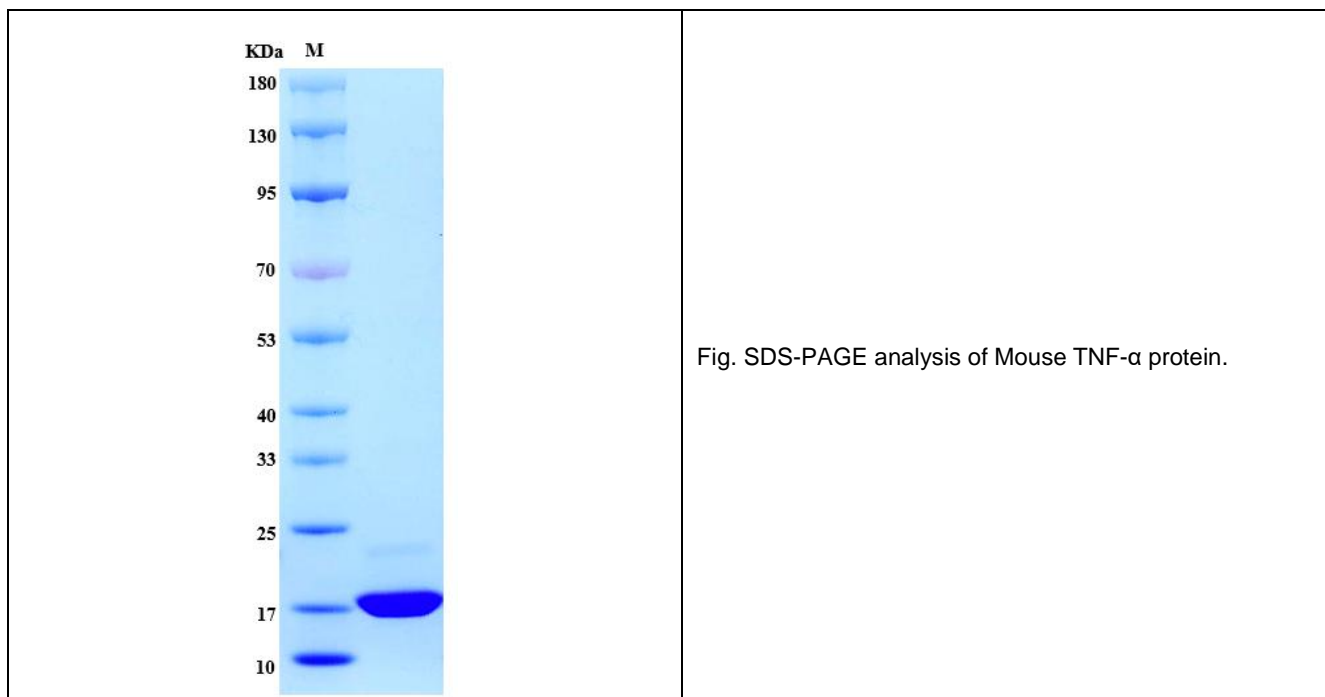
Protein length: The recombinant Mouse TNF- α protein consists of 157 amino acids and has a predicted molecular mass of 17 KDa.

Endotoxin: < 0.1 EU per μ g of the protein as determined by the LAL method.

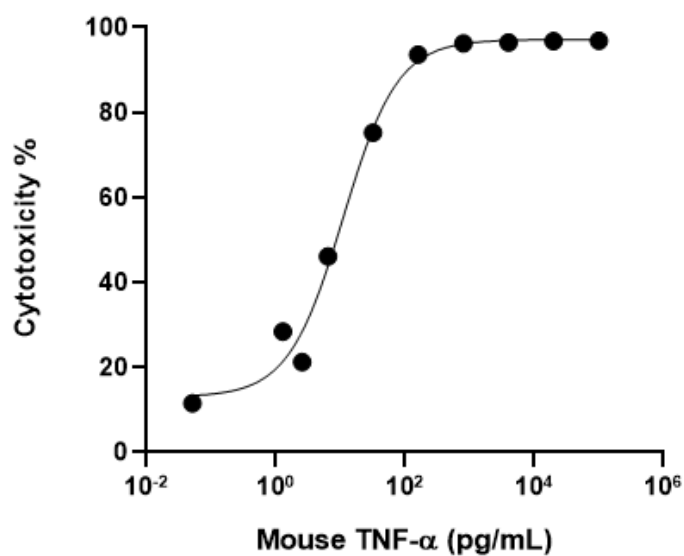
Formulation: Lyophilized from sterile PBS, pH 7.4.

Storage Instructions: Lyophilized Mouse TNF- α protein product should be stored desiccated below -20 °C . Upon reconstitution, the protein should be stored at 4 °C between 2-7 days and for future use below -20°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Usage notes: Always centrifuge tubes before opening. It is recommended to reconstitute the lyophilized Mouse TNF- α protein using the buffer we provided not less than 100 μ g/ml, which can then be further diluted to other aqueous solutions.



Biological Activity: Measured in a cytotoxicity assay using L929 mouse fibrosarcoma cells in the presence of the metabolic inhibitor actinomycin D. The ED₅₀ for this effect is typically 10.95 pg/mL. The specific activity of recombinant Mouse TNF-α is approximately $>9.1 \times 10^4$ IU/mg.



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