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Rat TNF-α protein

Cat #: PRP1213 Size: 5 μg/20 μg/100 μg/1 mg

Product Information

	Product Name: Rat TNF-α protein		
REF	Catalog Number: PRP1213	LOT	Lot Number: Refer to product label
	Purity: >98% as determined by SDS-PAGE		
Ĵ	Storage: Store at -20°C		Preparation method: E.Coli
	Shipping: The product is shipped at ambient temperature.		

Background: Tumor necrosis factor α (TNF- α), also known as TNF, TNFA or TNFSF2, is the prototypic cytokine of the TNF superfamily, and is a multifunctional molecule involved in the regulation of a wide spectrum of biological processes including cell proliferation, differentiation, apoptosis, lipid metabolism, and coagulation. Two receptors, TNF-R1 (TNF receptor type 1; CD120a; p55/60) and TNF-R2 (TNF receptor type 2; CD120b; p75/80), bind to TNF- α . TNF- α protein is produced mainly by macrophages, and large amounts of this cytokine are released in response to lipopolysaccharide, other bacterial products, and Interleukin-1 (IL-1). TNF- α is involved in fighting against the tumorigenesis, thus, is regarded as a molecular insight in cancer treatment.

Sequence: Amino acid sequence derived from Rat TNF-α (P16599) (Leu80-Leu235) was expressed.

<u>Protein length</u>: The recombinant Rat TNF- α consists of 156 amino acids and has a predicted molecular mass of 17.2 kDa.

<u>Biological Activity</u>: Measured in a cytotoxicity assay using L929 mouse fibrosarcoma cells, the ED₅₀ for this effect is typically 100 pg/mL.

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

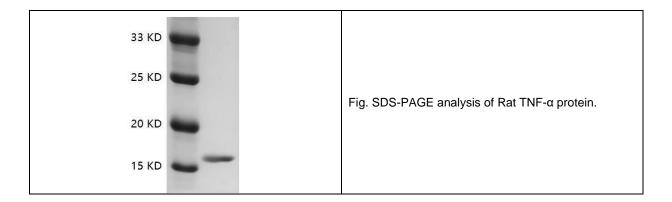
Formulation: Lyophilized from sterile 20 mM tris 50 mM NaCl, pH 8.0.

Storage Instructions: Lyophilized Rat TNF-α protein product should be stored desiccated below -18°C. Upon reconstitution,



the protein should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

<u>Usage notes</u>: Always centrifuge tubes before opening. It is recommended to reconstitute the lyophilized Rat 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.



<u>Note</u>: The product listed herein is for research use only and is not intended for use in human or clinical diagnosis. Suggested applications of our products are not recommendations to use our products in violation of any patent or as a license. We can not be responsible for patent infringements or other violations that may occur with the use of this product.

