


Rat IFN-gamma protein

Cat #:PRP1214

Size: 20µg /100µg/500µg /1mg

Product Information

	Product Name: Rat IFN-gamma protein		
	Reconstitution: Use the buffer we provided to reconstitute the lyophilized Rat IFN-gamma protein		
REF	Catalog Number: PRP1024	LOT	Lot Number: Refer to product label
	Purity: ≥ 95 % as determined by SDS-PAGE		
	Storage: Store at -20°C		Preparation method: E.coli
	Shipping: The product is shipped at ambient temperature.		

Background: IFN- γ (gamma), also known as IFNG, is a secreted protein which belongs to the type I interferon family. IFN gamma is produced predominantly by natural killer and natural killer T cells as part of the innate immune response, and by CD4 and CD8 cytotoxic T lymphocyte effector T cells once antigen-specific immunity develops. IFN gamma has antiviral, immunoregulatory, and anti-tumor properties. IFNG, in addition to having antiviral activity, has important immunoregulatory functions, it is a potent activator of macrophages, and has antiproliferative effects on transformed cells and it can potentiate the antiviral and antitumor effects of the type I interferons. The IFNG monomer consists of a core of six α -helices and an extended unfolded sequence in the C-terminal region. IFN gamma is critical for innate and adaptive immunity against viral and intracellular bacterial infections and for tumor control. Aberrant IFN gamma expression is associated with a number of autoinflammatory and autoimmune diseases. The importance of IFN gamma in the immune system stems in part from its ability to inhibit viral replication directly, and most importantly from its immunomodulatory effects.

Sequence: Amino acid sequence derived from Rat IFN- γ isoform (P01581)(Glu23-Cys156) was expressed.

Protein length: The recombinant Rat IFN- γ consists of 134 amino acids and has a predicted molecular mass of 14.8 kDa. The apparent molecular mass of the Rat IFN- γ protein is approximately 14.8 kDa in SDS-PAGE under reducing conditions.

Biological Activity: Testing in progress.

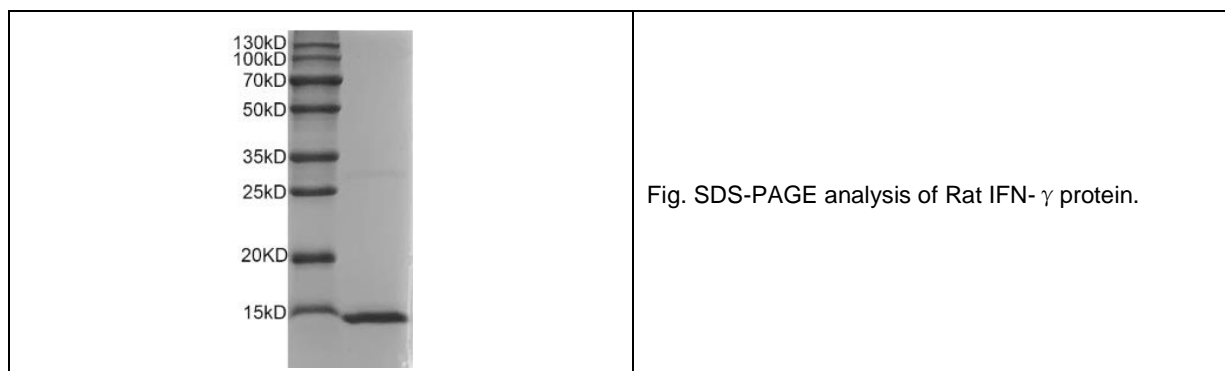
Endotoxin: < 1 EU per µg of the protein as determined by the LAL method.

Formulation: Lyophilized from sterile 20 mM Tris, 150 mM NaCl pH 7.0.

Storage Instructions: Lyophilized Rat IFN- γ protein product should be stored desiccated below -18°C for 12 months. Upon

reconstitution, the protein should be stored at 4°C between 2-7 days and below -18°C for 3 months . For long term storage it is recommended to add a carrier protein (example 0.1% HSA or BSA), aliquot and store below -18°C. Please prevent freeze-thaw cycles.

Usage notes: Always centrifuge tubes before opening . It is recommended to centrifuge at 12,000 rpm for 1 minute. Then reconstitute the lyophilized Rat IFN- γ protein using the buffer we provided not less than 100 μ g/ml, which can then be further diluted to other aqueous solutions.



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