


Human IFN-gamma protein

Cat #: PRP100263

Size: 20µg/100µg/1mg

Product Information

	Product Name: Human IFN-gamma protein		
REF	Catalog Number: PRP100263	LOT	Lot Number: Refer to product label
	Purity: > 92 % as determined by SDS-PAGE		
	Storage: Store at -20C		Preparation method: CHO Stable Cells
	Shipping: The product is shipped at ambient temperature.		

Background: IFN gamma, also known as IFNG, is a secreted protein which belongs to the type I 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 immunostimulatory and immunomodulatory effects. IFNG also promotes NK cell activity.

Sequence: Amino acid sequence derived from human γ -IFN (NP_000610.2) (Met 1-Gln 166) was expressed and purified.

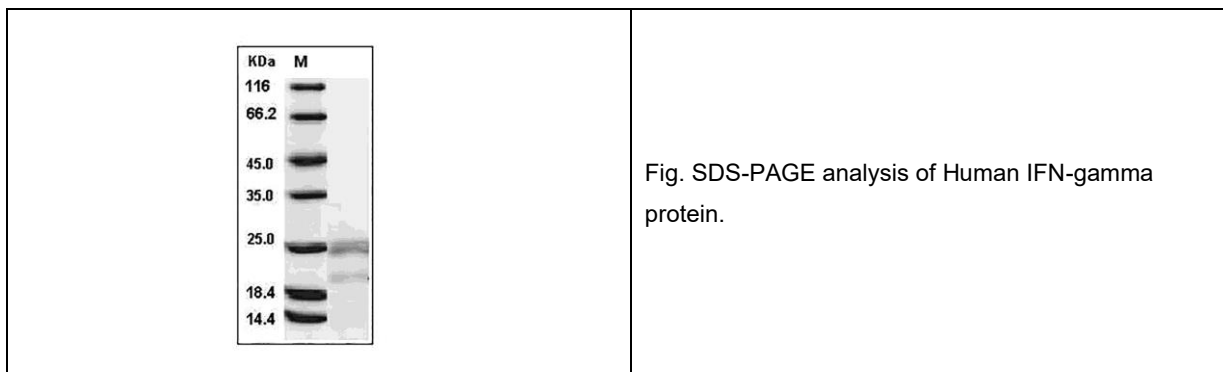
Protein length: The secreted recombinant human γ -IFN consists of 143 amino acids and has a predicted molecular mass of 16.7 kDa. γ -IFN migrates as two bands with apparent molecular mass of 21&25 kDa probably due to different glycosylation.

Formulation: Lyophilized from sterile PBS, pH 7.4.

Storage Instructions: Lyophilized Human IFN-gamma protein product should be stored desiccated below -18C. Upon reconstitution, the protein should be stored at 4C between 2 -7 days and for future use below -18C. 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 Human IFN-gamma

protein in sterile ddH₂O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.



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