

Human IFN- α 1a Protein

Cat #: PRP1218

Size: 5 μ g/20 μ g/100 μ g/1 mg

Product Information

	Product Name: Human IFN- α 1a Protein		
REF	Catalog Number: PRP1218	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: Interferon- α 1 is a member of the Type I IFN family best known for their antiviral activity. Most nucleated cells produce one or more Type I IFNs in response to viral infection. Secreted Type I IFN then induces viral protective responses in neighboring non-infected cells. Type I IFNs also enhance virus-induced apoptosis. Other IFN- α 1 activities include enhancement of dendritic cell maturation and cytotoxic T cell activity. IFN- α 1 binds to the IFN- α R1 and IFN- α R2 heterodimer. Intracellular signaling through the Jak/Stat pathway is best characterized. However, the PI3K, ERK, and p38 kinase pathways are also involved. The antiviral activities of the IFNs have led to their use in treating viral infections. Type I IFNs also appear to have an integral role in several autoimmune diseases.

Sequence: Amino acid sequence derived from Human IFN- α 1a (Cys4-Glu189) (P01562) was expressed.

Protein length: The recombinant Human IFN- α 1a Protein consists of 186 amino acids and predicts a molecular mass of 23 kDa.

Biological Activity: Testing in Progress.

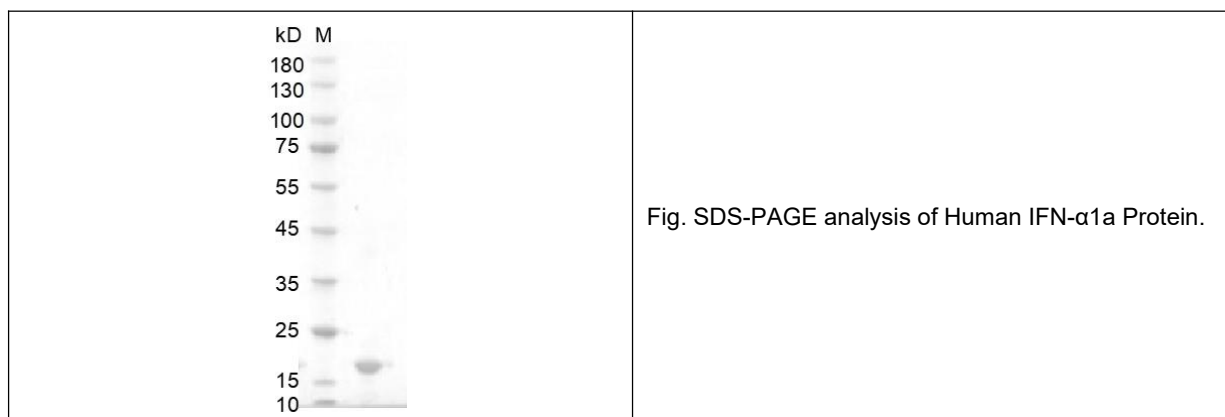
Endotoxin: <0.1 EU per μ g of the protein by the LAL method.

Formulation: Lyophilized from sterile 20 mM PB, 50 mM NaCl, pH7.5.

Storage Instructions: Lyophilized 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 protein using the

buffer we provided not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.



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