


Human IFN- α 2a Protein

Cat #:PRP1237

Size: 5 μ g/20 μ g/100 μ g/1mg

Product Information

	Product Name: Human IFN- α 2a Protein		
REF	Catalog Number: PRP1237	LOT	Lot Number: Refer to product label
	Purity: > 99 % as determined by SDS-PAGE		
	Storage: Store at -20°C		Preparation method: E. coli
	Shipping: The product is shipped at ambient temperature.		

Background: At least 23 different variants of IFN- α are known. The individual proteins have molecular masses between 19-26 kDa and consist of proteins with lengths of 156-166 and 172 amino acids. All IFN- α subtypes possess a common conserved sequence region between amino acid positions 115-151 while the amino-terminal ends are variable. Many IFN- α subtypes only differ in their sequences by one or two positions. Naturally occurring variants also include proteins truncated by 10 amino acids at the carboxy-terminal end. IFNA2 (Interferon Alpha 2) is a Protein Coding gene. This gene is a member of the alpha interferon gene cluster on chromosome 9. The encoded protein is a cytokine produced in response to viral infection. Type I Interferons (IFNs) are well-known cytokines that exert antiviral activity, antitumor activity, and immunomodulatory effects.

Sequence: Amino acid sequence derived from Human IFN- α 2a (P01563) (Cys24-Glu188) was expressed.

Protein length: The recombinant Human IFN- α 2a consists of 165 amino acids and predicts a molecular mass of 19.4 kDa.

Biological Activity: Measured by a cytotoxicity assay using TF-1 Cells. The ED₅₀ for this effect is 0.3301 ng/mL.

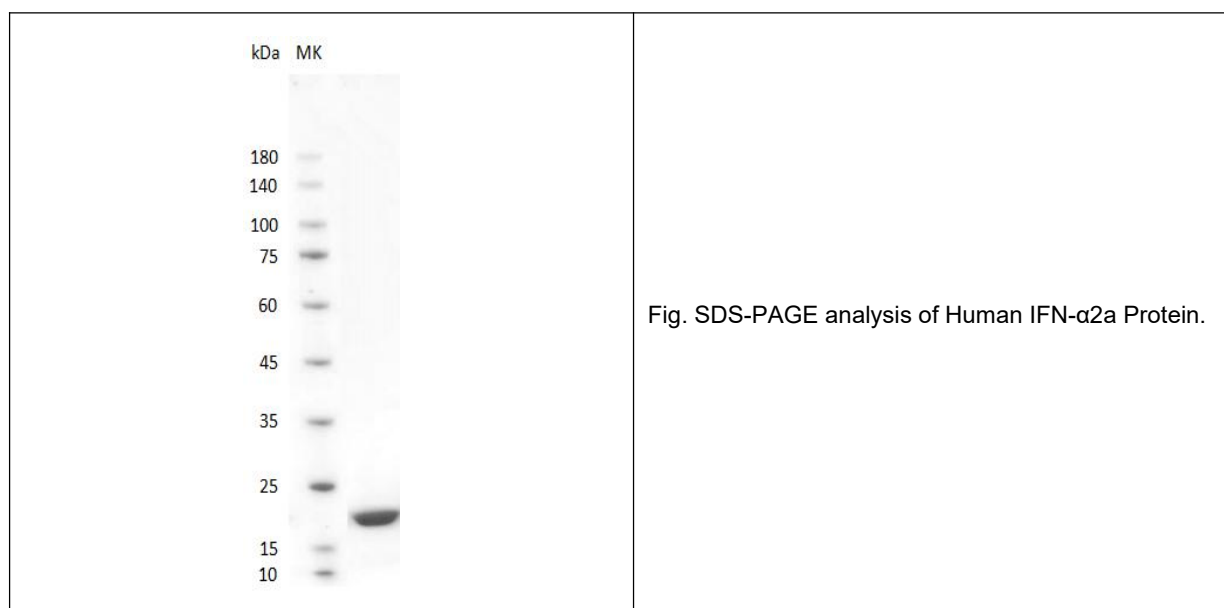
Endotoxin: < 1.0 EU per μ g of the protein as determined by the LAL method.

Formulation: Lyophilized from 20mM Tris, 150mM NaCl, pH 8.0.

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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