


Human IFN- β 1a protein

Cat #: PRP1053

Size: 5 μ g/20 μ g/100 μ g/1mg

Product Information

	Product Name: Human IFN- β 1a protein		
REF	Catalog Number: PRP1053	LOT	Lot Number: Refer to product label
	Purity: > 98 % as determined by SDS-PAGE		
	Storage: Store at -20°C		Preparation method: E.coli
	Shipping: The product is shipped at ambient temperature.		

Background: Interferon-beta1a (IFN- β 1a), acting via STAT1 and STAT2, is known to upregulate and downregulate a wide variety of genes, most of which are involved in the antiviral immune response. It is a member of Type I IFNs, which include IFN- α , - β , τ , and - ω . IFN- β plays an important role in inducing non-specific resistance against a broad range of viral infections. It also affects cell proliferation and modulates immune responses.

Sequence: Amino acid sequence derived from Human IFN- β 1a protein (Met30-Asn187) (P01574) was expressed with 6 \times His tag at C-terminus.

Protein length: The Human IFN- β 1a protein consists of 158 amino acids and has a predicted molecular mass of 20.8 kDa.

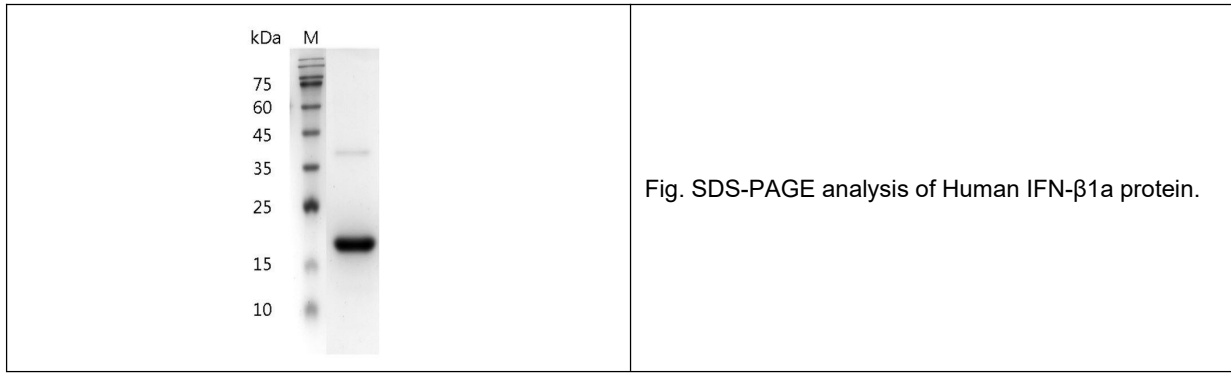
Biological Activity: Measure by its ability to induce apoptosis in HeLa cells, The ED₅₀ for this effect is <15 ng/mL. Measure by its ability to induce cytotoxicity in TF-1 cells, The ED₅₀ for this effect is <0.1 ng/mL.

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

Formulation: Lyophilized from sterile PBS, pH 8.0.

Storage Instructions: Lyophilized 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 (5% HSA, 10%FBS or 0.1%BSA). Please prevent freeze-thaw cycles.

Usage notes: Always centrifuge tubes before opening. It is recommended to reconstitute the lyophilized protein to a concentration of 0.1-1 mg/mL in sterile ddH₂O, and keep at room temperature for at least 20 min to fully dissolve. Please avoid vortex vigorously.



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