


Human IL-12 p70 Protein, His tag (Animal-Free)

Cat #: PRP1940

Size: 5 µg/20 µg/100 µg/1 mg

Product Information

	Product Name: Human IL-12 p70 Protein, His tag (Animal-Free)		
REF	Catalog Number: PRP1940	LOT	Lot Number: Refer to product label
	Purity: > 98 % as determined by SDS-PAGE		
	Storage: Store at -20°C		Preparation method: HEK293
	Shipping: The product is shipped at ambient temperature.		

Background: Interleukin 12 p70 (IL-12 p70) is an interleukin which is major secreted from immune cells like dendritic cells, macrophages and neutrophils. IL-12 p70 is composed by two subunits (IL-12 p35 and IL-12 p40). IL-12 p70 induces the cytotoxic activity of immune cells like NK cells and T cells. IL-12 p70 binds its receptor (IL-12Rβ1 and IL-12Rβ2) that activates the Jak/STAT signaling pathway. IL-12 p70 also plays an important role in cancer model which inhibits the formation of new blood vessels through the production of IFNγ.

Sequence: Amino acid sequence derived from Human IL-12 p70 (Arg23-Ser219) (P29459), (Ile23-Ser328) (P29460) was expressed with 6×His tag at the C-terminus.

Protein length: The recombinant Human IL-12 p70 consists of 503 amino acids and predicts a molecular mass of 59.55 kDa.

Biological Activity: Measured by its ability to induce IFN gamma secretion in PHA-activated human peripheral blood lymphocytes (PBMC). The ED₅₀ for this effect is 0.05-0.2 ng/mL.

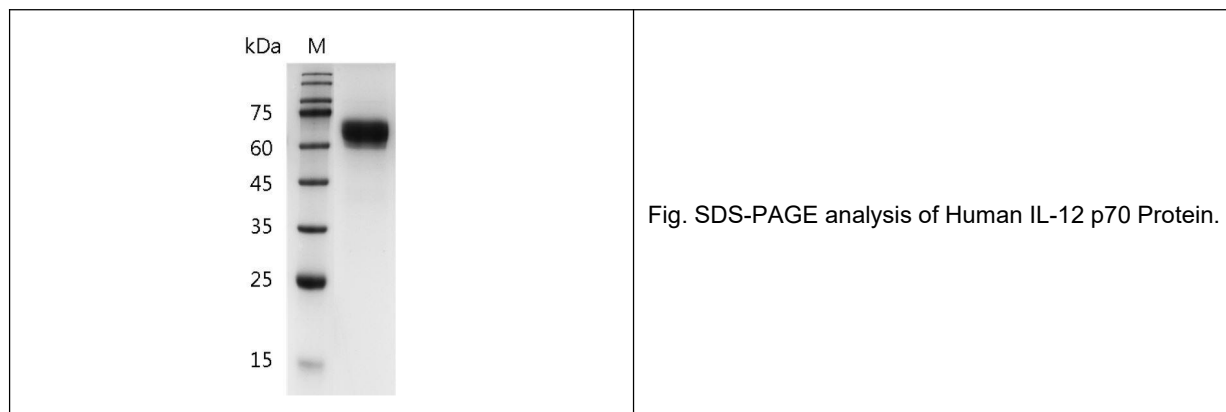
Endotoxin: <0.1 EU per 1 µg of the protein by the LAL method.

Formulation: Lyophilized from PBS, pH 7.4.

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 recombinant protein

to a concentration of 0.1-1 mg/mL using the buffer we provided, and keep at room temperature for at least 20 min to fully dissolve. Please avoid vortex vigorously.



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