


Human IL-4 Protein, His tag (Animal-Free)

Cat #: PRP1085

Size: 5 µg/20 µg/100 µg/1 mg

Product Information

	Product Name: Human IL-4 Protein, His tag (Animal-Free)		
REF	Catalog Number: PRP1085	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: Interleukin-4 (IL-4) is a multipotent cytokine involved in the regulation of immune response. IL-4 is secreted mainly by mast cells, T cells, eosinophils and basophils, and is the receptor of IL-4 RA. The effect of IL-4 depends on the type of shared receptor gamma chain (γ c) that its receptor IL-4 RA recruits. IL-2R γ is a common subunit of several interleukin receptors. IL-4 RA recruits IL-2R γ and forms a Type I signaling complex with IL-4 expressed on hematopoietic cells, leading to a series of receptor-related kinase-mediated phosphorylation events.

Sequence: Amino acid sequence derived from Human IL-4 (His25-Ser153) (P05112) was expressed with 6×His tag at the C-terminus.

Protein length: The recombinant Human IL-4 Protein consists of 129 amino acids and predicts a molecular mass of 12.3 kDa.

Biological Activity: Measured by its ability to induce TF-1 cells proliferation. The ED₅₀ for this effect is <0.2 ng/mL.

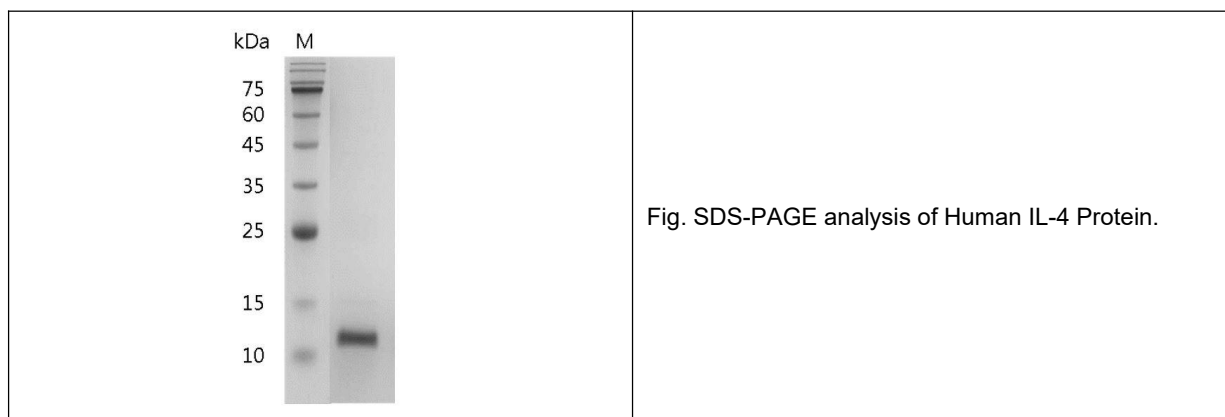
Endotoxin: <0.1 EU per µg of the protein as determined by the LAL method.

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 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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