


Human IL-4 Protein

Cat #: PRP1912

Size: 5 µg/20 µg/100 µg/1 mg

Product Information

	Product Name: Human IL-4 Protein		
REF	Catalog Number: PRP1912	LOT	Lot Number: Refer to product label
	Purity: > 98 % as determined by SDS-PAGE		
	Storage: Store at -20°C		Preparation method: <i>E.coli</i>
	Shipping: The product is shipped at ambient temperature.		

Background: Human Interleukin-4 (IL-4) is a cytokine that plays an important role in regulating inflammation and immune responses. It induces the differentiation of T cells to Th2 cells. This cytokine binds the IL-4 receptor that also binds another cytokine interleukin 13 (IL-13), which may explain the overlapping functions of IL-4 and IL-13. IL-4, originally designated as B-cell growth factor-1 (BSFI), is described in the supernatant of activated EL-4 thymoma cells as a factor that can co-stimulate B-cells activated with submitogenic concentrations of anti-IgM.

Sequence: Amino acid sequence derived from Human IL-4 (His25-Ser153) (P05112-1) was expressed.

Protein length: The recombinant Human IL-4 consists of 129 amino acids and predicts a molecular mass of 15.1 kDa.

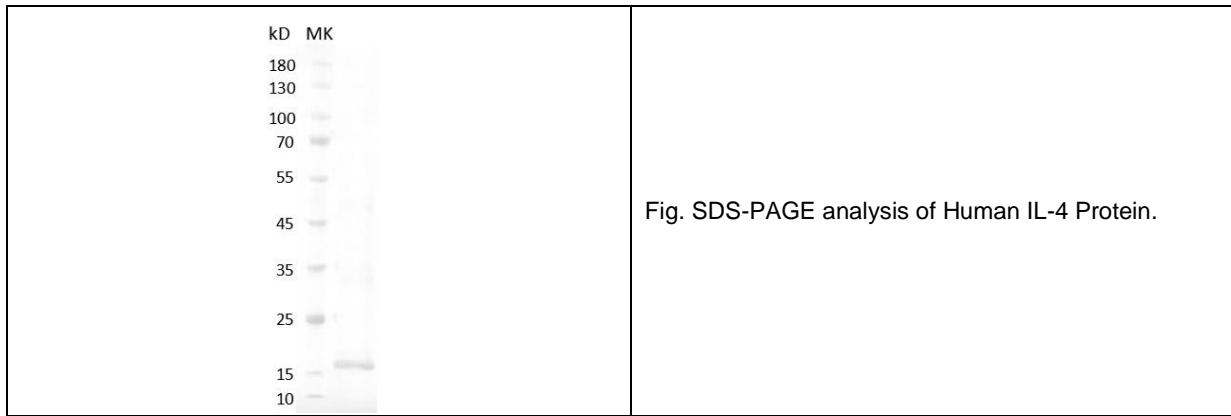
Biological Activity: Measured by its ability to induce proliferation in TF-1 cells. The ED₅₀ for this effect is 0.5308 ng/mL.

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

Formulation: Liquid in from sterile 20 mM Tris-HCl, 150mM NaCl, 10% glycerol, pH8.0.

Storage Instructions: Lyophilized protein product should be stored desiccated below -20°C. 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 dilute the protein using the PBS buffer or Protein storage solution to working concentration.



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