


Human IL-4 Protein

Cat #: PRP1959

Size: 5 µg/20 µg/100 µg/1 mg

Product Information

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|---|---|------------|---|
| | Product Name: Human IL-4 Protein | | |
| REF | Catalog Number: PRP1959 | LOT | Lot Number: Refer to product label |
| | Purity: > 96 % 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.

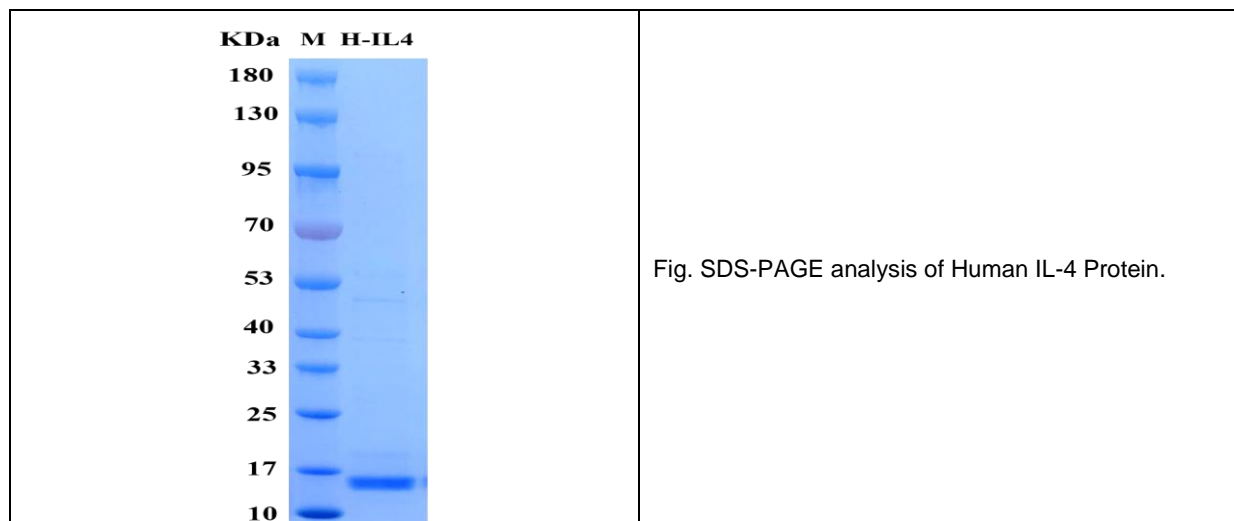
Protein length: The recombinant Human IL-4 consists of 129 amino acids and predicts a molecular mass of 15.1 kDa.

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

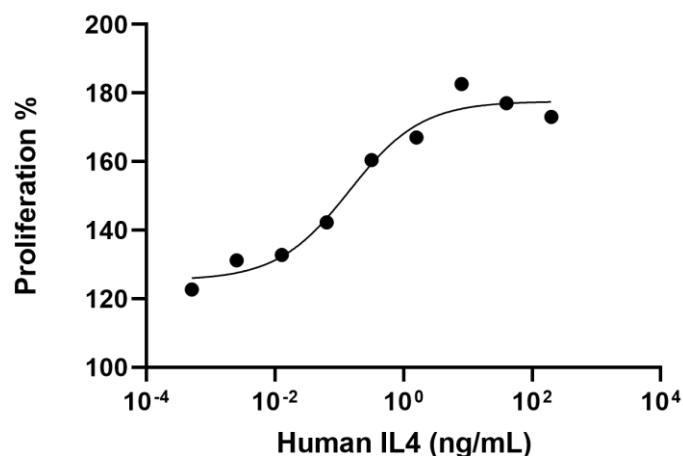
Formulation: Lyophilized from sterile 20 mM Tris-HCl, 150 mM NaCl, pH7.4.

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.



Biological Activity: Measured in a cell proliferation assay using TF -1. The ED₅₀ for this effect is typically 0.144 ng/mL. The specific activity of recombinant Human IL4 is approximately $>6.94 \times 10^6$ IU/mg.



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