


Human IL-3 Protein

Cat #: PRP1034

Size: 20 µg/100 µg/1 mg

Product Information

	Product Name: Human IL-3 Protein		
REF	Catalog Number: PRP1034	LOT	Lot Number: Refer to product label
	Purity: > 96 % as determined by SDS-PAGE		
	Storage: Store at -20°C		Preparation method: E. coli
	Shipping: The product is shipped at ambient temperature.		

Background: IL-3 (Interleukin 3), also known as IL3, is a potent growth-promoting cytokine that belongs to the IL-3 family. IL-3 also belongs to the group of interleukins. Interleukins are produced by a wide variety of body cells. The function of the immune system depends in a large part on interleukins, and rare deficiencies of a number of them have been described, all featuring autoimmune diseases or immune deficiency. The majority of interleukins are synthesized by helper CD4⁺ T lymphocytes, as well as through monocytes, macrophages, and endothelial cells. They promote the development and differentiation of T, B, and hematopoietic cells. IL-3 is capable of supporting the proliferation of a broad range of hematopoietic cell types. It is involved in a variety of cell activities such as cell growth, differentiation, and apoptosis. IL-3 has been shown to also possess neurotrophic activity, and it may be associated with neurologic disorders.

Sequence: Amino acid sequence derived from Human IL-3 (NP_000579.2) (Ala20-Phe152) was expressed with an initial Met.

Protein length: The recombinant Human IL-3 consists of 133 amino acids and has a predicted molecular mass of 15.2 kDa.

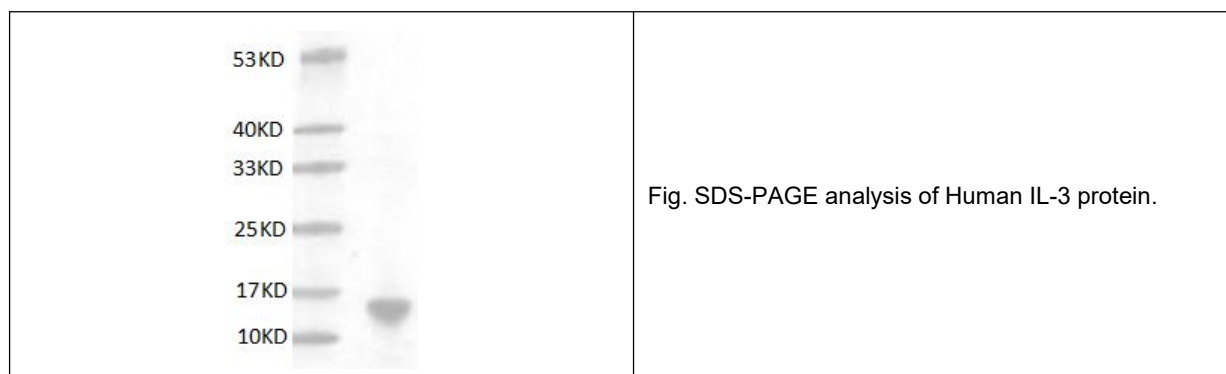
Biological Activity: Measured by its ability to induce proliferation in TF-1 cells. The ED₅₀ for this effect is 0.2575 ng/mL.

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

Formulation: Lyophilized from sterile PBS, pH 7.4.

Storage Instructions: Lyophilized Human IL-3 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 Human IL-3 protein using the buffer we provided not less than 100µg/ml, which can then be further diluted to other aqueous solutions.



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