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## **Human IL-10 protein**

Cat #: PRP100228 Size: 5µg/100µg/1mg

## **Product Information**

	Product Name: Human IL-10 protein		
REF	Catalog Number: PRP100228	LOT	Lot Number: Refer to product label
	Purity: > 95 % as determined by SDS-PAGE		
Ŷ	Storage: Store at -20°C		Preparation method: E. coli
	Shipping: The product is shipped at ambient temperature.		

Background: IL-10 is a anti-inflammatory cytokine which belongs to the IL-10 family. It is produced by a variety of cell lines, including T-cells, macrophages, mast cells and other cell types, while it is produced primarily by monocytes and to a lesser extent by lymphocytes. IL-10 is mainly expressed in monocytes and Type 2 T helper cells (TH2), mast cells, CD4+CD25+Foxp3+ regulatory T cells, and also in a certain subset of activated T cells and B cells. IL-10 has pleiotropic effects in immunoregulation and inflammation. It down-regulates the expression of Th1 cytokines, MHC class II Ags, and costimulatory molecules on macrophages. It also enhances B cell survival, proliferation, and antibody production. IL-10 can block NF-kappa B activity, and is involved in the regulation of the JAK-STAT signaling pathway. Knockout studies in mice suggested the function of this cytokine as an essential immunoregulator in the intestinal tract. The importance of interleukin 10 for counteracting excessive immunity in the human body is revealed by the fact that patients with Crohn's disease react favorably towards treatment with bacteria producing recombinant IL-10. IL-10 inhibits the synthesis of a number of cytokines, including IFN-gamma, IL-2, IL-3, TNF and GM-CSF produced by activated macrophages and by helper T-cells. It also displays a potent ability to suppress the antigen-presentation capacity of antigen presenting cells. However, it is also stimulatory towards certain T cells and mast cells and stimulates B cell maturation and antibody production.

Sequence: Amino acid sequence derived from human IL10 (NP\_000563.1) (Ser 19-Asn 178) was expressed.

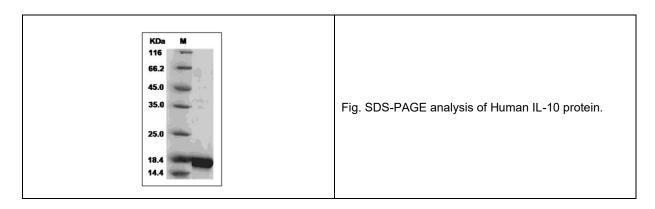
<u>Protein length</u>: The recombinant human GADD45G consists of 160 amino acids and predicts a molecular mass of 18.6 KDa. It migrates as an approximately 18 KDa band in SDS-PAGE under reducing conditions.

Formulation: Lyophilized from sterile 20mM Tris, 20mM NaCl, pH 8.7.

Storage Instructions: Lyophilized Human IL10 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 (0.1% HSA or BSA). Please prevent freeze-thaw cycles.



<u>Usage notes</u>: Always centrifuge tubes before opening. It is recommended to reconstitute the lyophilized Human IL10 protein in sterile ddH<sub>2</sub>O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.



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