


Human IL-10 Protein, His tag (Animal-Free)

Cat #: PRP1055

Size: 5 µg/20 µg/100 µg/1 mg

Product Information

	Product Name: Human IL-10 Protein, His tag (Animal-Free)		
REF	Catalog Number: PRP1055	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: Interleukin 10(IL-10), also known as cytokine synthesis inhibitory factor (CSIF), is a secreted protein and belongs to the IL-10 family. IL-10 is secreted by many activated hematopoietic cell types as well as hepatic stellate cells, keratinocytes, and placental cytotrophoblasts. IL-10 is an anti-inflammatory TH2 cytokine that has a critical role in limiting the immune response to pathogens to prevent host damage. As IL-10 is produced in several T helper populations, it is proposed that it provides a feedback loop to limit the effector functions of macrophages and DCs on T cells. Once expressed, IL-10 signals through the IL-10 receptor (IL-10R) to activate STAT3. As IL-10 is a strong inhibitor of inflammation, it has become a viable biomarker for various diseases and conditions as well as a therapeutic molecule for certain conditions. In addition to elevated levels in parasitic infection, high expression levels of IL-10 are also found in retroviral infections inducing immunodeficiency. The immunosuppressive properties of IL-10 suggest a possible clinical use of IL-10 in suppressing rejections of grafts after organ transplantations.

Sequence: Amino acid sequence derived from Human IL-10 (Ser19-Asn178)(P22301) was expressed with 6xHis tag at the C-terminus.

Protein length: The recombinant Human IL-10 consists of 161 amino acids and predicts a molecular mass of 18.8 kDa.

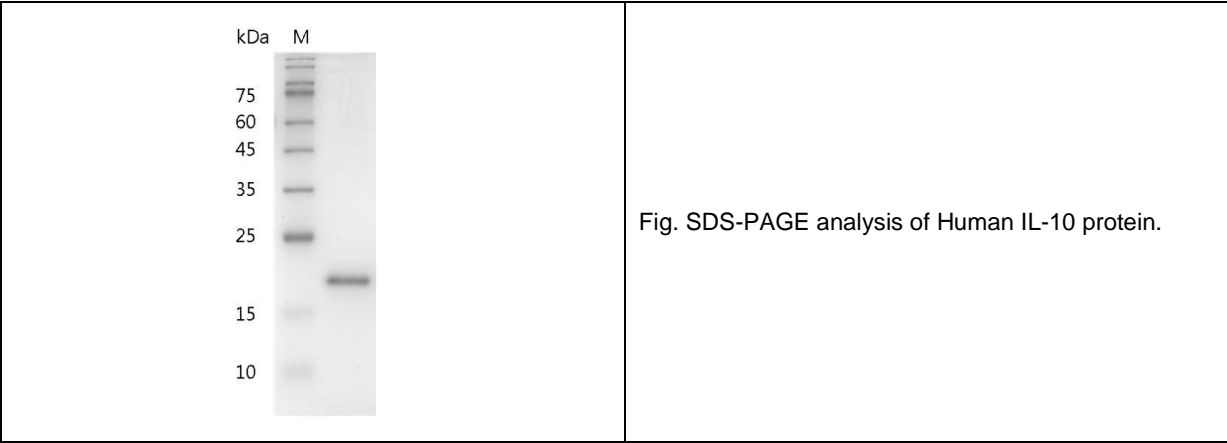
Biological Activity: Measure by its ability to induce MC/9-2 cells proliferation. The ED₅₀ for this effect is <1 ng/mL. The specific activity of recombinant human IL-10 is approximately >1x10⁶ IU/ mg.

Endotoxin: < 0.01 EU per µg of the protein as determined by the LAL method.

Formulation: The protein was lyophilized from a 0.2 µm filtered solution containing 1X PBS, pH 8.0. If you have any concerns or special requirements, please confirm with us.

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 human IL-10 protein to a concentration of 0.1-1 mg/mL in sterile ddH₂O, and keep at room temperature for at least 20 min to fully dissolve. Please avoid vortex vigorously.



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