

Recombinant Human IL-10 protein (rFc Tag)

Catalog Number: Eg3296

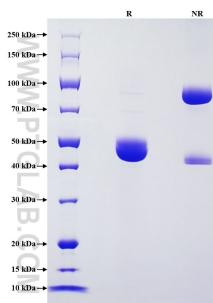
Basic Information	Species: Human	Purity: >90 %, SDS-PAGE	Tag: rFc Tag
Technical Specifications	<p>Purity: >90 %, SDS-PAGE</p> <p>Endotoxin Level: <0.1 EU/μg protein, LAL method</p> <p>Source: HEK293-derived Human IL-10 protein Ser19-Asn178 (Accession# P22301) with a rabbit IgG Fc tag at the N-terminus.</p> <p>GeneID: 3586</p> <p>Accession: P22301</p> <p>Predicted Molecular Mass: 45.8 kDa</p> <p>SDS-PAGE: 42-50 kDa, reducing (R) conditions</p> <p>Formulation: Lyophilized from 0.22 μm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.</p>		
Biological Activity	Not tested		
Storage and Shipping	<p>Storage: It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none"> Until expiry date, -20°C to -80°C as lyophilized proteins. 3 months, -20°C to -80°C under sterile conditions after reconstitution. <p>Shipping: The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.</p>		
Reconstitution	Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.		
Background	<p>Interleukin-10 is an anti-inflammatory cytokine, produced by T helper (Th) cells, macrophages, monocytes, and B cells, that plays a crucial role in preventing inflammatory and autoimmune pathologies. It downregulates the expression of Th1 cytokines, MHC class II antigens, and co-stimulatory molecules on macrophages. It also enhances B cell survival, proliferation, and antibody production. IL-10 can block NF-κB activity, and is involved in the regulation of the JAK-STAT signaling pathway. IL-10, along with its receptors, describes an important role in pathogenesis of various diseases, including infectious, inflammatory, autoimmune diseases. IL-10 mutations are associated with an increased susceptibility to HIV-1 infection and rheumatoid arthritis.</p>		
References	<ol style="list-style-type: none"> J M Kim, et al. Structure of the mouse IL-10 gene and chromosomal localization of the mouse and human genes Rennick, D.M., et al. Studies with IL-10-/mice: an overview. <i>J Leukoc Biol.</i> 61:389-396 (1997). Scott C., et al. The extended IL-10 superfamily: IL-10, IL-19, IL-20, IL-22, IL-24, IL-26, IL-28, and IL-29. <i>J ALLERGY CLIN IMMUNOL</i> 127:1070-1078 (2011). Saraiva, M., et al. The regulation of IL-10 production by immune cells. <i>Nat Rev Immunol.</i> 10:170-181 (2010). 		
Synonyms	IL-10, IL10, CSIF, IL 10, IL10, IL10A		

For technical support and original validation data for this product please contact

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com
W: ptglab.com

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Selected Validation Data



Purity of Recombinant Human IL-10 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.