

IL-10/IL10A, Human, Recombinant

Cat. No. : PCK169

General Information

Synonyms	Interleukin-10;IL-10;Cytokine synthesis inhibitory factor;CSIF;IL10;RP11-262N9.1;IL10A;MGC126450;MGC126451;TGIF
Species	Human
Expression host	Human Cells
Sequence	Ser19-Asn178
Accession	P22301
Mol mass	18.6 kDa
Expiration date	12 months
Bio activity	Loaded Human IL-10RA-His on HIS1K Biosensor, can bind Human IL-10 with an affinity constant of 1 pM as determined in BLI assay.

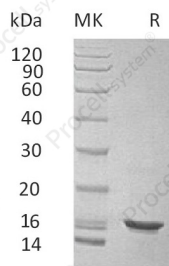
Product feature

Purity	> 95% as determined by reducing SDS-PAGE.
Endotoxin (EU/μg)	< 0.1
Storage	Lyophilized protein should be stored at -5~-20°C, stable for one year after receipt. Reconstituted protein solution can be stored at 2-8°C for 2-7 days. Aliquots of reconstituted samples are stable at -5~-20°C for 3 months.
Shipping	Ice bag
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Reconstitution	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 μg/mL. Dissolve the lyophilized protein in sterile water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

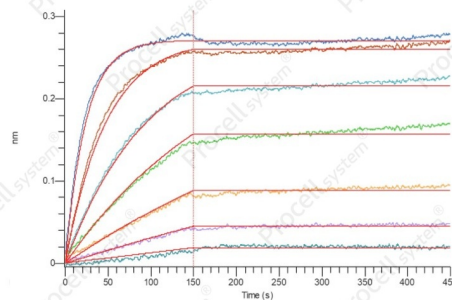
Background

Interleukin 10 (IL10), 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.

SDS-PAGE



Bio activity



Loaded Human IL-10RA-His on HIS1K Biosensor, can bind Human IL-10 with an affinity constant of 1 pM as determined in BLI assay.

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