

For Research Use Only

Recombinant Human IL-10 protein (rFc Tag)



Catalog Number: Eg3296

Basic Information

Species:
Human

Purity:
>90 %, SDS-PAGE

Tag:
rFc Tag

Technical Specifications

Purity:

>90 %, SDS-PAGE

Endotoxin Level:

<0.1 EU/μg protein, LAL method

Source:

HEK293-derived Human IL-10 protein Ser19-Asn178 (Accession# P22301) with a rabbit IgG Fc tag at the N-terminus.

GeneID:

3586

Accession:

P22301

Predicted Molecular Mass:

45.8 kDa

SDS-PAGE:

42-50 kDa, reducing (R) conditions

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.

Biological Activity

Not tested

Storage and Shipping

Storage:

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

Shipping:

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

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.

References

1. J M Kim., et al. Structure of the mouse IL-10 gene and chromosomal localization of the mouse and human genes
2. Rennick, D.M., et al. Studies with IL-10-/- mice: an overview. J Leukoc Biol. 61:389-396 (1997).
3. 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. J ALLERGY CL
4. Saraiva, M., et al. The regulation of IL-10 production by immune cells. Nat Rev Immunol. 10:170-181 (2010).

Synonyms

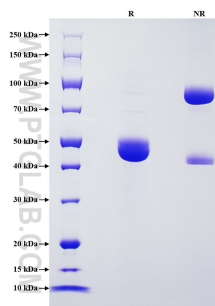
IL-10, IL10, CSIF, IL 10, IL10, IL10A

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

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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.