

Catalog Number: Eg5071

Basic Information**Species:**
Rat**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 Rat IL-10 protein Ser19-Asn178 (Accession# P29456) with a rabbit IgG Fc tag at the N-terminus.

GeneID:

25325

Accession:

P29456

Predicted Molecular Mass:

45.8 kDa

SDS-PAGE:

45-60 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 (IL-10) is an essential anti-inflammatory cytokine that plays important roles as a negative regulator of immune responses to microbial antigens. IL-10 is mainly secreted by macrophages, but also by T helper 1 (Th1) and Th2 lymphocytes, dendritic cells, cytotoxic T cells, B lymphocytes, monocytes and mast cells. 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 activity is mediated by the IL-10 receptor (IL-10R) which is a member of the class II cytokine receptor family.

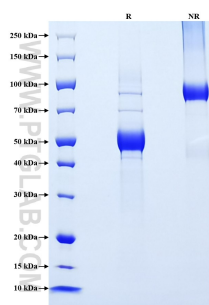
References

1. Pisa P. et al. (1992) Proc Natl Acad Sci U S A. 89(16):7708-12.
2. Gastl GA. et al. (1993) Int J Cancer. 55(1):96-101.
3. Knolle PA. et al. (1998) Clin Exp Immunol. 114(3):427-33.
4. Heine G. et al. (2019) Eur J Immunol. 44(6):1615-21.
5. Shouval DS. et al. (2014) Adv Immunol. 122:177-210.

Synonyms

Il10, IL-10, IL-10,IL10, interleukin 10, interleukin-10

Selected Validation Data



Purity of Recombinant Rat 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.

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

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