

Catalog Number: Eg0269

## Basic Information

**Species:**  
Rat**Purity:**  
>90 %, SDS-PAGE**Tag:**  
His Tag

## Technical Specifications

**Purity:**

&gt;90 %, SDS-PAGE

**Endotoxin Level:**<0.1 EU/  $\mu$ g protein, LAL method**Source:**

HEK293-derived Rat IL-10 protein Ser19-Asn178 (Accession# P29456) with a his tag at the C-terminus.

**GeneID:**

25325

**Accession:**

P29456

**Predicted Molecular Mass:**

19.8 kDa

**SDS-PAGE:**

26-30 kDa, reducing (R) conditions

**Formulation:**Lyophilized from 0.22  $\mu$ m 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- $\kappa$ B 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.

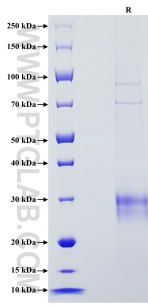
## References

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, 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) conditions and stained using Coomassie blue.

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

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