

# Recombinant Human IL-15 protein (rFc Tag)

Catalog Number: Eg1980

## Basic Information

**Species:**  
Human

**Purity:**  
>90 %, SDS-PAGE

**Tag:**  
rFc Tag

## Technical Specifications

**Purity:**

>90 %, SDS-PAGE

**Endotoxin Level:**

<1.0 EU/ µg protein, LAL method

**Source:**

HEK293-derived Human IL-15 protein Asn49-Ser162 (Accession# P40933-1) with a rabbit IgG Fc tag at the C-terminus.

**GeneID:**

3600

**Accession:**

P40933-1

**Predicted Molecular Mass:**

39.1 kDa

**SDS-PAGE:**

**Formulation:**

Lyophilized from sterile 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 15 (IL15) is a cytokine important for the development, maturation, and function of many cells of the immune system including NK, NKT, gammadeltaT, and CD8(+) T cells. Its expression affects homeostasis and function of B cells through NK cell-derived IFNG. IL-15 binds a trimeric IL-15 receptor (IL-15R) complex formed by a specific receptor chain (IL-15R $\alpha$ ) combined with the  $\beta$  and  $\gamma$  chains of the IL-2R, acting as signal transducing components. High levels of IL15 expression have been associated with the pathogenesis of autoimmune and inflammatory diseases like Crohn's disease, psoriasis, leukemias, rheumatoid arthritis (RA) and graft rejection, resulting in the IL15 system being a target of interest for the treatment of these diseases.

## References

1. Gill, Navkiran et al. Cellular immunology vol. 258,1 (2009): 59-64.
2. Kirman, I, and O H Nielsen. The American journal of gastroenterology vol. 91,9 (1996): 1789-94.
3. Rückert, R et al. Journal of immunology (Baltimore, Md. : 1950) vol. 165,4 (2000): 2240-50.
4. Yamada, Y, and S Kamihira. Leukemia & lymphoma vol. 35,1-2 (1999): 37-45.
5. Pavlakis, M et al. Transplantation vol. 62,4 (1996): 543-5.
6. Manfro, R C et al. Transplantation proceedings vol. 29,1-2 (1997): 1077-8.

## Synonyms

## Selected Validation Data

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

T: 027-87531629

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

W: [ptgcn.com](http://ptgcn.com)

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