

# Recombinant Cynomolgus IL-2RG/CD132 Protein

Catalog No.: RP01424

## Sequence Information

|                   |                |
|-------------------|----------------|
| <b>Species</b>    | <b>Gene ID</b> |
| Cynomolgus        | 641338         |
| <b>Swiss Prot</b> | <b>Tags</b>    |
| Q38JL2            | C-hFc&Avi      |

### Synonyms

IL2RG,CD132,CIDX,IMD4,P64,SCIDX,SCIDX1,gammaC,IL2RG

## Product Information

|               |                                   |
|---------------|-----------------------------------|
| <b>Source</b> | <b>Purification</b>               |
| HEK293 cells  | ≥ 95 % as determined by SDS-PAGE. |

### Calculated MW

55.14 kDa

70-100 kDa

### Endotoxin

< 0.1 EU/μg of the protein by LAL method.

### Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

### Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Background

The common gamma chain (γc) (or CD132), also known as interleukin-2 receptor subunit gamma or IL2RG, is a member of the type I cytokine receptor family expressed on most lymphocyte (white blood cell) populations, and its gene is found on the X-chromosome of mammals. The common gamma chain (γc) (or IL2RG), is a cytokine receptor subunit that is common to the receptor complexes for at least six different interleukin receptors: IL-2, IL-4, IL-7, IL-9, IL-15, and the interleukin-21 receptor. It is a component of multiple cytokine receptors that are essential for lymphocyte development and function. X-linked severe combined immunodeficiency (X-SCID) is a rare and potentially fatal disease caused by mutations of IL2RG, the gene encoding IL2RG. IL2RG was demonstrated to be a component of the IL-4 receptor based on chemical cross-linking data, the ability of IL2RG to augment IL-4 binding affinity. The observation that IL-2R gamma is a functional component of the IL-4 receptor, together with the finding that IL-2R gamma associates with the IL-7 receptor, begins to elucidate why a deficiency of this common gamma chain (gamma c) has a profound effect on lymphoid function and development, as seen in X-linked severe combined immunodeficiency.

## Basic Information

### Description

Recombinant Cynomolgus IL-2RG/CD132 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Leu23-Asn254) of cynomolgus (rhesus macaque) IL-2 R gamma/CD132 (Accession #NP\_001030606.1) fused with a Fc, Avi tag at the C-terminus.

### Activity

### Shipping

Lyophilized proteins are shipped at ambient temperature. Liquid proteins are shipped at frozen temperature with dry ice. Upon receipt, store it immediately at the temperature recommended below.

### Storage

Store at -20°C

### Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

## Contact

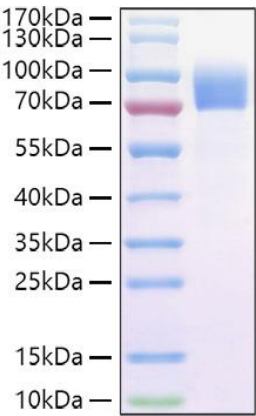
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**Validation Data**

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Recombinant Cynomolgus IL-2RG/CD132 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.