

# Recombinant Human IL-2RG/CD132 Protein

Catalog No.: RP01205 **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Human	3561	P31785

### Tags

C-His

### Synonyms

IL2RG;CD132;CIDX;IL-2RG;IMD4;P64;SCI  
DX;SCIDX1

## Product Information

Source	Purification
HEK293 cells	> 95% by SDS- PAGE.

Calculated MW	Observed MW
28.22 kDa	43-65 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. Contact us for customized product form or formulation.

### 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.

## Contact

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## Background

The gamma chain of the high affinity functional human IL-2 receptor complex belongs to the hematopoietin receptor family. 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. IL2RG is a 369 amino acid residue protein consisting of a 22 residue signal sequence, a 232 residue extracellular domain, a 29 residue transmembrane domain and an 86 residue cytoplasmic domain. IL2RG is a cytokine receptor sub-unit 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 interleukin-21 receptor. It has been proposed that IL2RG be designated the common gamma chain (γc). The site of molecular defects in X-linked SCID (severe combined immunodeficiency) has now been mapped to the IL-2 R gamma gene.

## Basic Information

### Description

Recombinant Human IL-2RG/CD132 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Leu23-Asn254) of human CD132 (Accession #NP\_000197.1.) fused with a 6×His tag at the C-terminus.

### Bio-Activity

### Storage

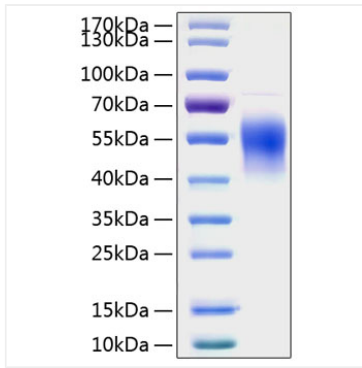
Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

## Validation Data

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Recombinant Human IL-2RG/CD132 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 43-65 kDa.