

Recombinant Cynomolgus IL-2RG/CD132 Protein

Catalog No.: RP01424 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Cynomolgus	641338	Q38JL2

Tags

C-hFc&Avi

Synonyms

IL2RG;CD132;CIDX;IMD4;P64;SCIDX;SCID X1;gammaC;IL2RG

Product Information

Source	Purification
HEK293 cells	

Calculated MW	Observed 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.

Contact

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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.

Bio-Activity

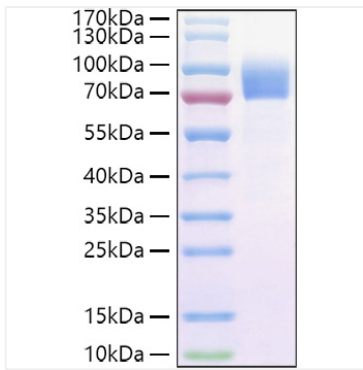
Storage

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



Recombinant Cynomolgus IL-2RG/CD132 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 70-90kDa.