

# Recombinant Human IL2RG/CD132 Protein (aa 1-254, Fc Tag)



Catalog Number:PKSH031531

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

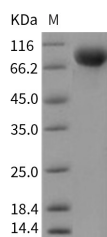
## Description

<b>Synonyms</b>	Cytokine receptor common subunit gamma;Interleukin-2 receptor subunit gamma;gammaC;P64;CD132;IL2RG;SCIDX;SCIDX1;CIDX
<b>Species</b>	Human
<b>Expression Host</b>	HEK293 Cells
<b>Sequence</b>	Met 1-Asn254
<b>Accession</b>	P31785
<b>Calculated Molecular Weight</b>	54.4 kDa
<b>Observed molecular weight</b>	71 kDa
<b>Tag</b>	C-hFc

## Properties

<b>Purity</b>	> 99 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from sterile PBS, pH 7.4 Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

## Data



> 99 % as determined by reducing SDS-PAGE.

## Background

The common gamma chain ( $\gamma$ c) (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 ( $\gamma$ c) (or 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 is a component of multiple cytokine receptors that are essential for lymphocyte development and function. X-linked severe combined immunodeficiency (XSCID) 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 on the

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basis of 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 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.

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