# Recombinant Human IL2RG/CD132 Protein (His Tag)(Active)

#### Catalog No. PKSH031530

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

Description		
Synonyms	Cytokine receptor common subunit gamma; Interleukin-2 receptor subunit gamma; gammaC; P64; CD132; IL2RG; SCIDX;SCIDX1; CIDX	
Species	Human	
Expression Host	Baculovirus-Insect Cells	
Sequence	Met 1-Asn 254	
Accession	P31785	
Calculated Molecular Weight	28.8 kDa	
Tag	C-His	
Bioactivity	Measured by its ability to bind biotinylated recombinant rat IL2 in a functional ELISA.	
Properties		
Purity	> 97 % as determined by reducing SDS-PAGE.	
Storage	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.	
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.	
Formulation	Lyophilized from sterile 20mM Tris, 500mM NaCl, pH 7.4, 10% gly	
Reconstitution	Please refer to the printed manual for detailed information.	
Data		

KDa	MK	R
116		
66.2	-	
45.0	-	-
35.0	-	
25.0	-	
18.4 14.4	elabscie	ence.con

## 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

### **For Research Use Only**

Toll-free: 1-888-852-8623 Web: <u>www.elabscience.com</u>

# **Elabscience**®

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 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.

For Research Use Only