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

Catalog Number: PKSH031531

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

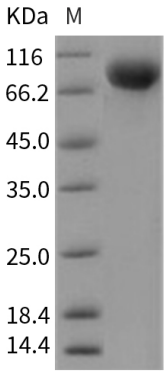
Description

Species	Human
Source	HEK293 Cells-derived Human IL2RG/CD132 protein Met 1-Asn254, with an C-terminal hFc
Calculated MW	54.4 kDa
Observed MW	71 kDa
Accession	P31785
Bio-activity	Not validated for activity

Properties

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

Data



> 99 % as determined by reducing SDS-PAGE.

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 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 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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