

## Recombinant Human IL2RG, His-tagged

**Cat. No.** IL2RG-49H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human IL2RG, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
<b>Description</b>	IL2RG, also known as Interleukin-2 receptor common subunit gamma, is a cytokine receptor sub-unit that is common to the receptor complexes for at least six different interleukin receptors. This protein is located on the surface of immature blood-forming cells in bone marrow. One end of the protein resides outside of the cell where it binds to cytokines and the other end of the protein resides in the interior of the cell where it transmits signals to the cell's nucleus. The common gamma chain partners with other proteins to direct blood-forming cells to form lymphocytes. It also directs the growth and maturation of lymphocyte subtypes. These cells kill viruses, make antibodies, and help regulate the entire immune system.
<b>Source</b>	Insect cell
<b>Species</b>	Human
<b>Tag</b>	His
<b>Form</b>	Liquid. In Phosphate buffer saline (pH 7.4)
<b>Molecular Mass</b>	29.0kDa (246aa) 40-57kDa (SDS-PAGE under reducing conditions.)
<b>AA Sequence</b>	LNTTILTPNG NEDTTADFFL TTMPTDSLSV STLPLPEVQC FVFNVEYMNC TWNSSSEPQP TNLTLHYWYK NSDNDKVQKC SHYLFSEEIT SGCQLQKKEI

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	HLYQTFVVQL QDPREPRRQA TQMLKLQNLV IPWAPENLTL HKLSESQL E NWNNRFLNHC LEHLVQYRTD WDHSWTEQSV DYRHKFSLPS VDGQKRYTFR VRSRFNPLCG SAQHWSEWSH PIHWGSNTSK ENPFLFALEA HHHHHH
<b>Endotoxin</b>	< 1.0 eu per 1 microgram of protein (determined by lal)
<b>Purity</b>	>80% by SDS - PAGE.
<b>Storage</b>	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.
<b>Concentration</b>	0.5mg/ml (determined by Bradford assay)

## GENE INFORMATION

<b>Gene Name</b>	IL2RG interleukin 2 receptor, gamma [ Homo sapiens ]
<b>Official Symbol</b>	IL2RG
<b>Synonyms</b>	IL2RG; interleukin 2 receptor, gamma; CIDX, combined immunodeficiency, X linked , IMD4, SCIDX1, severe combined immunodeficiency; cytokine receptor common subunit gamma; CD132; gammaC; gamma(c); CD132 antigen; common gamma-chain; IL-2R subunit gamma; IL-2 receptor subunit gamma; severe combined immunodeficiency; combined immunodeficiency, X-linked; common cytokine receptor gamma chain; interleukin-2 receptor subunit gamma; P64; CIDX; IMD4; SCIDX; IL-2RG; SCIDX1;
<b>Gene ID</b>	3561
<b>mRNA Refseq</b>	NM_000206
<b>Protein Refseq</b>	NP_000197

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2/3

<b>MIM</b>	308380
<b>UniProt ID</b>	P31785
<b>Chromosome Location</b>	Xq13
<b>Pathway</b>	Cytokine Signaling in Immune system, organism-specific biosystem; Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Downstream signaling in naive CD8+ T cells, organism-specific biosystem; Endocytosis, organism-specific biosystem; Endocytosis, conserved biosystem; HTLV-I infection, organism-specific biosystem;
<b>Function</b>	cytokine receptor activity; interleukin-2 binding; contributes_to interleukin-2 receptor activity; contributes_to interleukin-4 receptor activity; contributes_to interleukin-7 receptor activity; protein binding; receptor activity;