

# Recombinant Human IL2RG Protein, C-His-tagged

**Cat. No.** IL2RG-067H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
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| <b>Product Overview</b> | Recombinant Human IL2RG Protein with C-His tag was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Description</b>      | <p>The IL-2 receptor is a multicomponent complex consisting of three subunits, α, β and γ, each of which is required for high affinity binding of IL-2. The α chain functions primarily in binding IL-2, whereas the β and γ chains contribute to IL-2 binding and are essential to IL-2-induced activation of signaling pathways leading to T cell growth. Both IL-4R and IL-7R were initially described as single chain high affinity ligand binding cytokine receptors. However, it is now well established that the IL-2R γ chain functions as a second subunit of the high affinity IL-4R and IL-7R receptors. Consequently, the originally described subunits of these latter receptors are now referred to as IL-4Rα and IL-7Rα respectively, while the common subunit is referred to as γc. Although the common γ chain enhances ligand binding in these three cytokine receptors, it has no capacity to bind these ligands on its own. There is evidence that the γ chain is also a subunit of IL-13R.</p> |
| <b>Molecular Mass</b>   | ~26 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>AA Sequence</b>      | <p>LNTTILTPNGNEDTTADFFLTMTPTDSLVSSTLPLPEVQCFVFNVEYMNCTWNSSSE<br/> PQPTNLT LHYWYKNSDNDKVQKCSHYLFSEEITSGCQLQKKEIHLYQTFVVQLQDP<br/> REPRRQATQMLKLQNLVIPWAPENLT LHKLSSESQLELNWNNRFLNHCLEHLVQYRT</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

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|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                         | DWDHSWTEQSVDIRHKFSLPSVDGQKRYTFRVRSRFNPLCGSAQHWSEWSHPIH<br>WGSNTSKENPFLFALEA                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Purity</b>           | Transferred into competent cells and the supernatant was purified by NI column affinity chromatography and the purity is > 85% (by SDS-PAGE).                                                                                                                                                                                                                                                                                                                                      |
| <b>Notes</b>            | For research use only, not for use in diagnostic procedure.                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Storage</b>          | Store at 4 centigrade short term. Aliquot and store at -20 centigrade long term. Avoid freeze-thaw cycles.                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Concentration</b>    | ≥0.5 mg/mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Storage Buffer</b>   | PBS, 4M Urea, pH7.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Gene Name</b>        | IL2RG interleukin 2 receptor, gamma [ Homo sapiens (human) ]                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <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                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

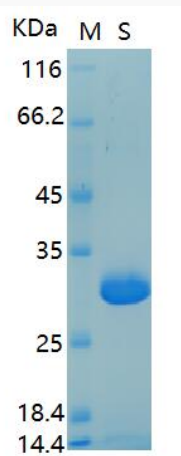
**mRNA Refseq** [NM\\_000206](#)

**Protein Refseq** [NP\\_000197](#)

**MIM** [308380](#)

**UniProt ID** [P31785](#)

**SDS-PAGE**



**SDS-PAGE Result**

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