

Mouse IL-2 R gamma / CD132 Protein, His Tag (MALS verified)

Catalog # ILA-M52H3



Synonym

IL2RG,CD132,CIDX,IMD4,P64,SCIDX,SCIDX1,gammaC

Source

Mouse IL-2 R gamma, His Tag(ILA-M52H3) is expressed from human 293 cells (HEK293). It contains AA Trp 23 - Ala 263 (Accession # [P34902-1](#)).  
Predicted N-terminus: Trp 23

Molecular Characterization

IL-2 R gamma(Trp 23 - Ala 263)  
P34902-1

Poly-his

This protein carries a polyhistidine tag at the C-terminus.  
The protein has a calculated MW of 30.1 kDa. The protein migrates as 40-60 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per µg by the LAL method / rFC method.

Purity

>90% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

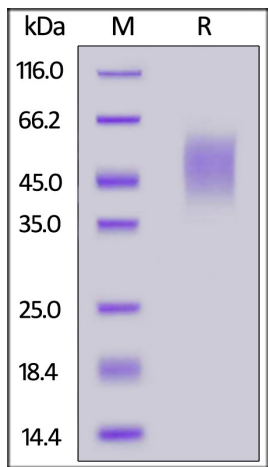
Please see Certificate of Analysis for specific instructions.  
*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.*

Storage

For long term storage, the product should be stored at lyophilized state at -20°C or lower.  
*Please avoid repeated freeze-thaw cycles.*

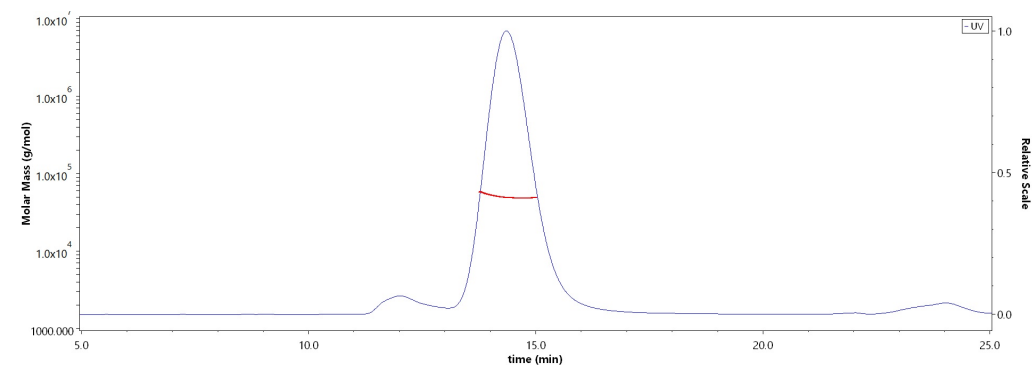
- This product is stable after storage at:
- 20°C to -70°C for 12 months in lyophilized state;
  - 70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Mouse IL-2 R gamma, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%.

SEC-MALS



The purity of Mouse IL-2 R gamma, His Tag (Cat. No. ILA-M52H3) is more than 85% and the molecular weight of this protein is around 45-55 kDa verified by SEC-MALS.  
[Report](#)

Background

IL-2R is a heterotrimeric protein binds and responds to the cytokine IL-2. Three distinct chains of IL-2R, termed as  $\alpha$ ,  $\beta$  and  $\gamma$ , which are non-covalently associated are identified. The  $\alpha$  and  $\beta$  chains are involved in binding IL-2, while signal transduction following cytokine interaction is carried out by the  $\gamma$  chain, along with the  $\beta$  subunit. The  $\alpha$  chain of the IL-2R can bind to the  $\beta$  chain before receptor interaction with IL-2. The  $\gamma$  chain alone has a very weak affinity for IL-2, but after the



Mouse IL-2 R gamma / CD132 Protein, His Tag (MALS verified)

Catalog # ILA-M52H3



ligand is bound to the  $\alpha/\beta$  heterodimer, the  $\gamma$  chain becomes recruited to the complex to form a very stable macromolecular quaternary ligand/receptor complex. Interleukin-2 receptor subunit gamma (IL2RG), also known as cytokine receptor common subunit gamma, CD antigen CD132, gammaC, p64, which belongs to the type I cytokine receptor family or type 5 subfamily. IL2RG is located on the surface of immature blood-forming cells in bone marrow. Defects in IL2RG are the cause of severe combined immunodeficiency X-linked T-cell-negative/B-cell-positive/NK-cell-negative (XSCID).

