



Synonyms

IL-2 R beta & IL-15 R alpha & IL-2 R gamma

Source

Human IL-2 R beta & IL-15 R alpha & IL-2 R gamma Protein, Twin Strep Tag&His Tag (ILG-H5284) is expressed from human 293 cells (HEK293). It contains AA Ala 27 - Asp 239 (IL-2RB) & Ile 31 - Thr 205 (IL-15RA) & Leu 23 - Asn 254 (IL-2RG) (Accession # [P14784-1](#) (IL-2RB) & [Q13261-1](#) (IL-15RA) & [P31785-1](#) (IL-2RG)).

Predicted N-terminus: Ala 27 & Ile 31

Molecular Characterization

IL-2RB (Ala 27 – Asp 239) P14784-1	Poly-his
IL-15RA (Ile 31 - Thr 205) Q13261-1	Twin-Strep
IL-2RG (Leu 23 - Asn 254) P31785-1	Twin-Strep

The protein has a calculated MW of 29.9 kDa & 52.6 kDa. The protein migrates as 37-39 kDa, 41-43 kDa and 95-120 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

The protein is designed as a heterodimer.

Endotoxin

Less than 0.01 EU per µg by the LAL method / rFC method.

Purity

>95% as determined by SDS-PAGE.

>95% as determined by SEC-MALS.

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.

Shipping and Storage

This product is shipped at ambient temperature.

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

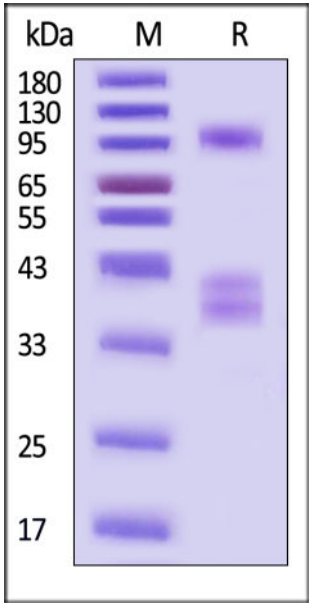
This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

ACRO Quality Management System

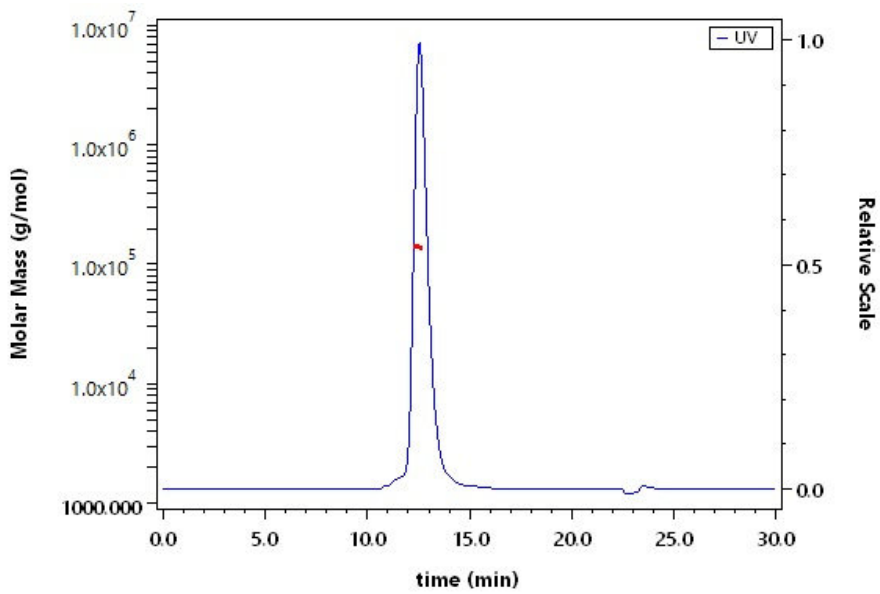
- [QMS\(ISO, GMP\)](#).
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



Human IL-2 R beta & IL-15 R alpha & IL-2 R gamma Protein, Twin Strep Tag&His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-MALS



The purity of Human IL-2 R beta & IL-15 R alpha & IL-2 R gamma Protein, Twin Strep Tag&His Tag (Cat. No. ILG-H5284) is more than 95% and the molecular weight of this protein is around 110-145 kDa verified by SEC-MALS.

Background

Interleukin-2 receptor beta (IL-2R β , CD122) and the common gamma chain (γ c, CD132) constitute the shared signaling modules for IL-2 and IL-15. IL-15 receptor alpha (IL-15R α , CD215) is a specific high-affinity binding chain for IL-15. Its sushi domain mediates tight binding, and it can be shed as a soluble form. Unlike classical cytokine receptors, IL-15R α often presents IL-15 in trans to adjacent cells expressing IL-2R β / γ c, a process essential for the development, survival, and proliferation of natural killer (NK) cells and memory CD8⁺ T cells. IL-2 utilizes IL-2R α , IL-2R β , and γ c for high-affinity signaling. These three chains are members of the common gamma chain family. γ c associates with JAK3, while IL-2R β recruits JAK1, both activating the STAT5 pathway to regulate immune responses.



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