

Synonym

IL-7 R alpha & IL-2 R gamma

Source

Biotinylated Human IL-7 R alpha & IL-2 R gamma Protein, His,Avitag&Tag Free (ILA-H82W3) is expressed from human 293 cells (HEK293). It contains AA Glu 21 - Asp 239 & Leu 23 - Asn 254 (Accession # [P16871-1](#) & [P31785-1](#)).

Predicted N-terminus: Glu 21 & Leu 23

Molecular Characterization

Biotinylated Human IL-7 R alpha & IL-2 R gamma Protein, produced by co-expression of IL-7 R alpha and IL-2 R gamma, has a calculated MW of 32.2 kDa (IL-7 R alpha) & 31.2 kDa (IL-2 R gamma). Subunit IL-7 R alpha is fused with a polyhistidine tag at the C-terminus, followed by an Avi tag (Avitag™) and subunit IL-2 R gamma contains no tag at the C-terminus. The protein migrates as 43-65 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.

Labeling

Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.

Protein Ratio

Passed as determined by the HABA assay / binding ELISA.

Purity

>90% 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.

Storage

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

Please avoid repeated freeze-thaw cycles.

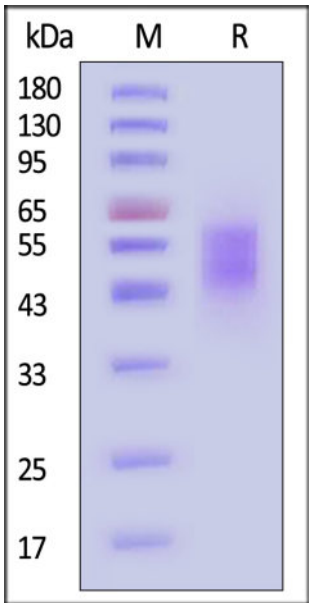
This product is stable after storage at:

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

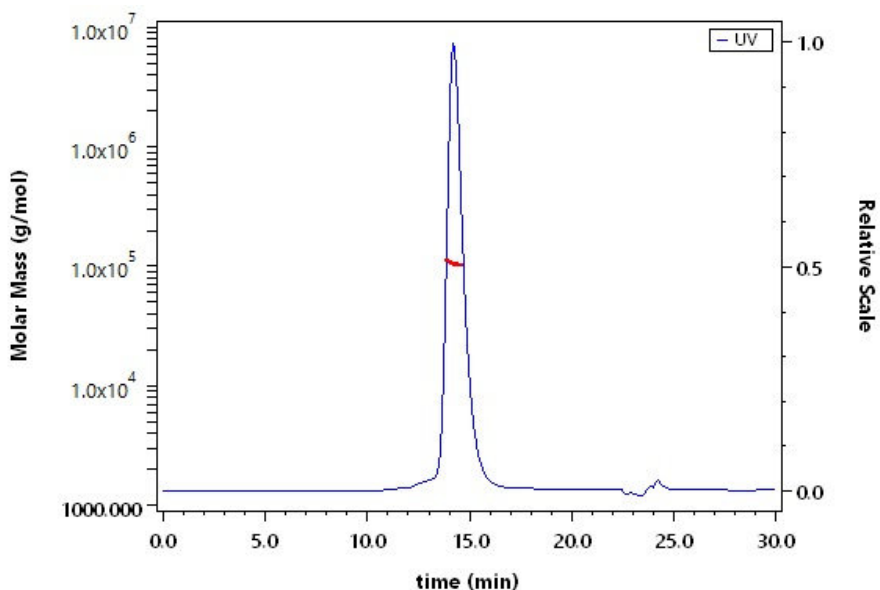
ACRO Quality Management System

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

SDS-PAGE



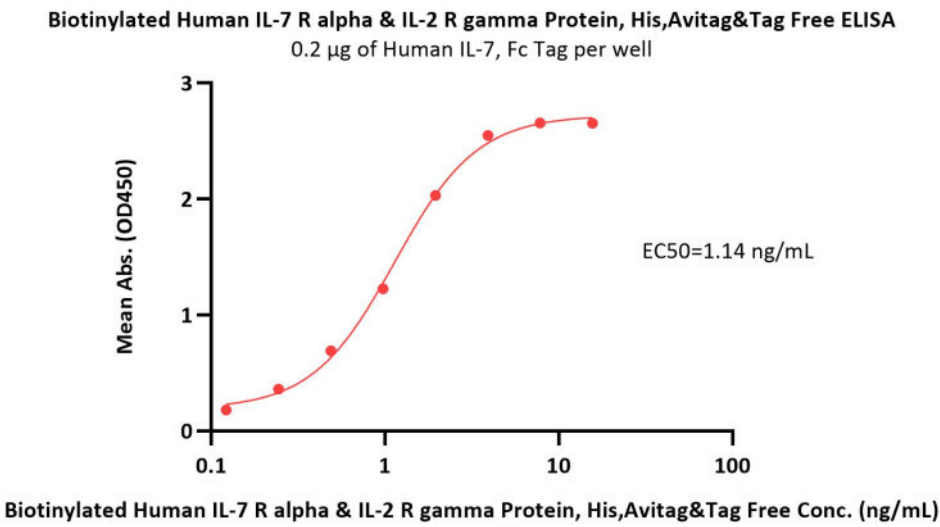
SEC-MALS



Biotinylated Human IL-7 R alpha & IL-2 R gamma Protein, His,Avitag&Tag Free on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

The purity of Biotinylated Human IL-7 R alpha & IL-2 R gamma Protein, His,Avitag&Tag Free (Cat. No. ILA-H82W3) is more than 95% and the molecular weight of this protein is around 95-115 kDa verified by SEC-MALS.

Bioactivity-ELISA



Immobilized Human IL-7, Fc Tag (Cat. No. IL7-H5253) at 2 µg/mL (100 µL/well) can bind Biotinylated Human IL-7 R alpha & IL-2 R gamma Protein, His,Avitag&Tag Free (Cat. No. ILA-H82W3) with a linear range of 0.1-2 ng/mL (QC tested).

Background

The protein encoded by this gene is a receptor for interleukin 7 (IL7). The function of this receptor requires the interleukin 2 receptor, gamma chain (IL2RG), which is a common gamma chain shared by the receptors of various cytokines, including interleukins 2, 4, 7, 9, and 15. This protein has been shown to play a critical role in V(D)J recombination during lymphocyte development. Defects in this gene may be associated with severe combined immunodeficiency (SCID). Alternatively spliced transcript variants have been found.

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