

Human IL-21 R & IL-2 R gamma Heterodimer Protein, Fc Tag&Fc Tag (MALS verified)

Catalog # ILA-H52W9



Synonyms

IL-21 R & IL-2 R gamma, IL21R & IL2RG, IL-21R & IL-2RG

Source

Human IL-21 R & IL-2 R gamma Heterodimer Protein, Fc Tag&Fc Tag (ILA-H52W9) is expressed from human 293 cells (HEK293). It contains AA Cys 20 - Pro 236 (IL-21 R) & Leu 23 - Asn 254 (IL-2 R gamma) (Accession # [Q9HBE5-1](#) (IL-21 R) & [P31785-1](#) (IL-2 R gamma)).

Predicted N-terminus: Cys 20 (IL-21 R) & Leu 23 (IL-2 R gamma)

Molecular Characterization

IL-21R (Cys 20 - Pro 236) Q9HBE5-1	Fc(Pro 100 - Lys 330) P01857
IL-2RG(Leu 23 - Asn 254) P31785-1	Fc(Pro 100 - Lys 330) P01857

Human IL-21 R & IL-2 R gamma Heterodimer Protein, Fc Tag&Fc Tag is produced by co-expression of IL-21 R and IL-2 R gamma, has a calculated MW of 51.5 kDa (IL-21 R) & 53.6 kDa (IL-2 R gamma). Subunit IL-21 R is fused with a human IgG1 Fc tag at the C-terminus and subunit IL-2 R gamma is fused with a human IgG1 Fc tag at the C-terminus. The protein migrates as 65 kDa and 70 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

>95% 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.

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.

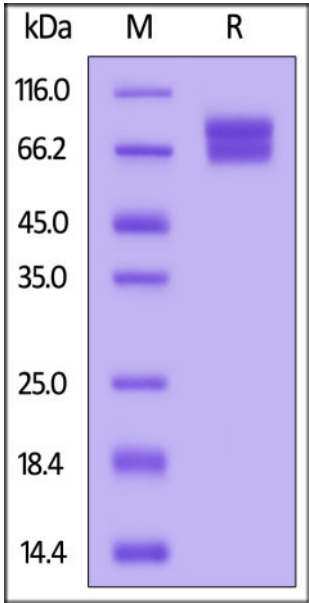
This product is stable after storage at:

- -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

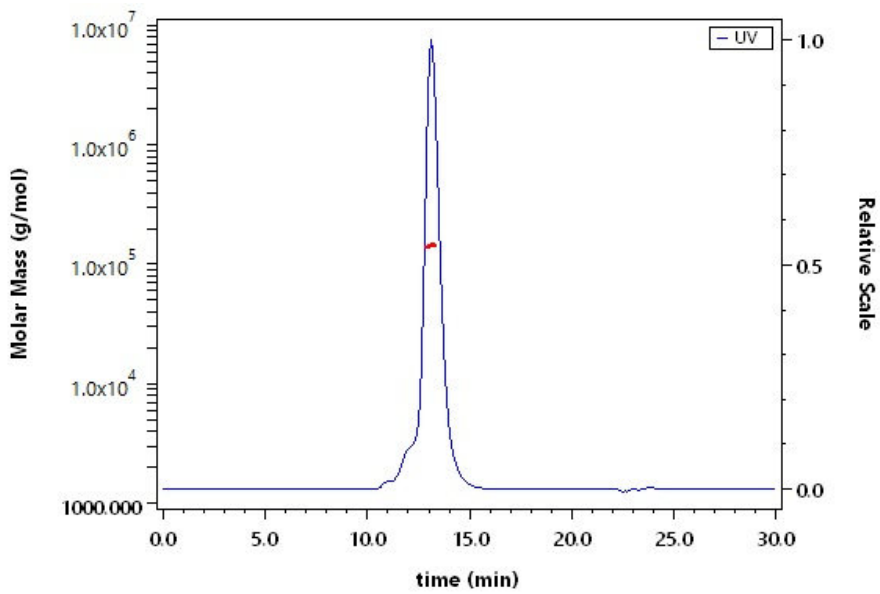
- [QMS\(ISO, GMP\)](#).
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



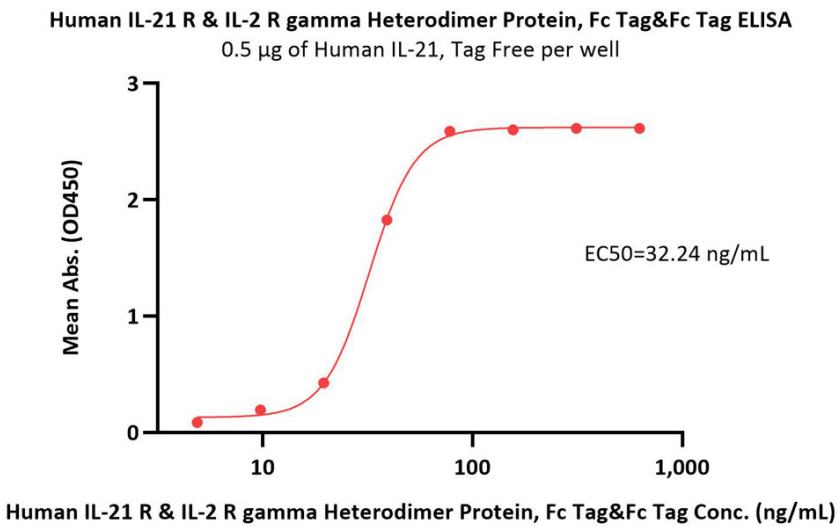
Human IL-21 R & IL-2 R gamma Heterodimer Protein, Fc Tag&Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

SEC-MALS



The purity of Human IL-21 R & IL-2 R gamma Heterodimer Protein, Fc Tag&Fc Tag (Cat. No. ILA-H52W9) is more than 85% and the molecular weight of this protein is around 128-156 kDa verified by SEC-MALS.

Bioactivity-ELISA



Immobilized Human IL-21, Tag Free (Cat. No. IL1-H5213) at 5 µg/mL (100 µL/well) can bind Human IL-21 R & IL-2 R gamma Heterodimer Protein, Fc Tag&Fc Tag (Cat. No. ILA-H52W9) with a linear range of 5-78 ng/mL (QC tested).

Background

Interleukin (IL)-21, IL-2, IL-4, IL-7, IL-9, and IL-15 form a family of cytokines based on their sharing the common cytokine receptor γ chain (γ_c), which was originally discovered as the third receptor component of the IL-2 receptor, IL-2RG. IL-21 is a class I cytokine that exerts pleiotropic effects on both innate and adaptive immune responses. It signals through a heterodimeric receptor complex consisting of the IL-21 receptor (IL-21R) and the common γ -chain.



www.acrobiosystems.com