



**Source**

Human IL-4 R alpha & IL-13 R alpha 1 Protein, Fc Tag&Fc Tag(ILR-H525b) is expressed from human 293 cells (HEK293). It contains AA Met 26 - His 232 & Gly 22 - Thr 343 (Accession # [P24394-1](#) & [NP\\_001551.1](#)).

Predicted N-terminus: Met 26 & Gly 22

**Molecular Characterization**

IL4Ra (Met 26 - His 232) P24394-1	Fc(Pro 100 - Lys 330) P01857
IL13Ra1 (Gly 22 - Thr 343) NP_001551.1	Fc(Pro 100 - Lys 330) P01857

Human IL-4 R alpha & IL-13 R alpha 1 Protein, Fc Tag&Fc Tag is produced by co-expression of IL-4 R alpha and IL-13 R alpha 1, has a calculated MW of 50.2 kDa & 63.1 kDa. The protein migrates as 65-95 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

**Endotoxin**

Less than 1.0 EU per µg by the LAL method.

**Purity**

>95% as determined by SDS-PAGE.

>90% 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**

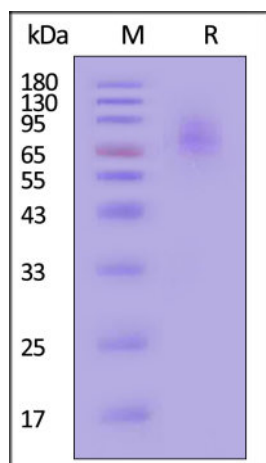
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*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.

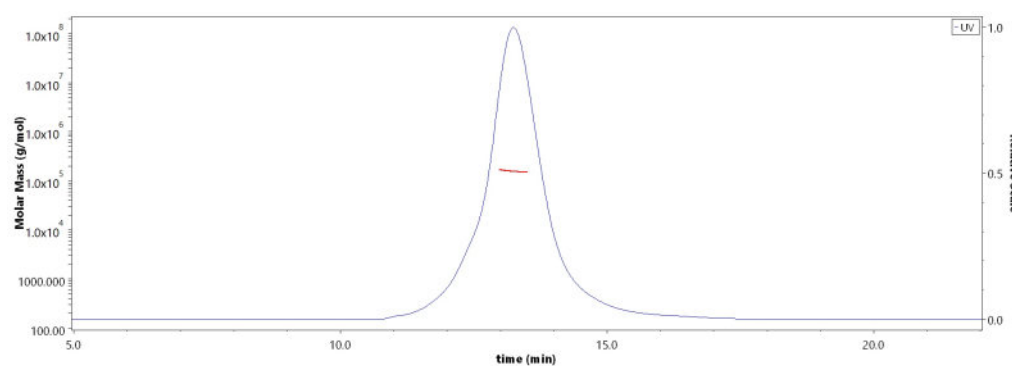
**SDS-PAGE**



Human IL-4 R alpha & IL-13 R alpha 1 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% (With [Star Ribbon Pre-stained Protein Marker](#)).

**Bioactivity-ELISA**

**SEC-MALS**



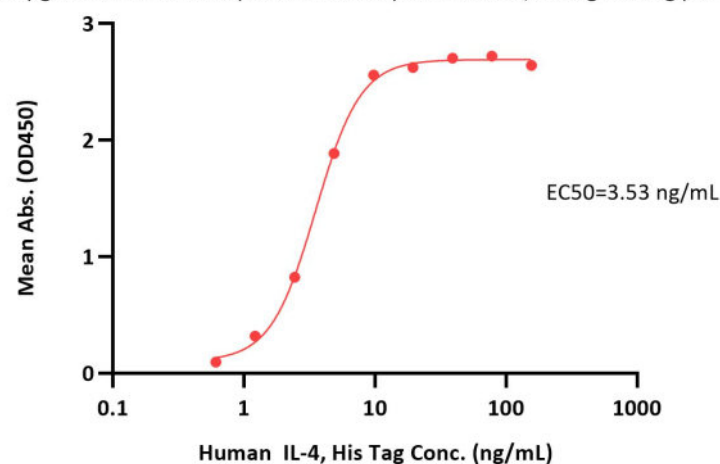
The purity of Human IL-4 R alpha & IL-13 R alpha 1 Protein, Fc Tag&Fc Tag (Cat. No. ILR-H525b) is more than 90% and the molecular weight of this protein is around 140-170 kDa verified by SEC-MALS. [Report](#)

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and more!



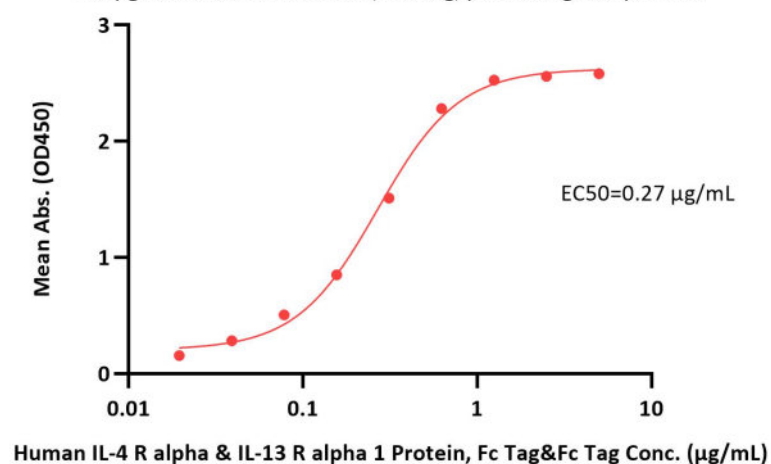


Human IL-4 R alpha & IL-13 R alpha 1 Protein, Fc Tag&Fc Tag ELISA  
0.5 µg of Human IL-4 R alpha & IL-13 R alpha 1 Protein, Fc Tag&Fc Tag per well



Immobilized Human IL-4 R alpha & IL-13 R alpha 1 Protein, Fc Tag&Fc Tag (Cat. No. ILR-H525b) at 5 µg/mL (100 µL/well) can bind Human IL-4, His Tag (Cat. No. IL4-H52H9) with a linear range of 0.6-5 ng/mL (QC tested).

Human IL-4 R alpha & IL-13 R alpha 1 Protein, Fc Tag&Fc Tag ELISA  
0.5 µg of Human IL-13 Protein, His Tag, premium grade per well



Immobilized Human IL-13 Protein, His Tag, premium grade (Cat. No. IL3-H52H4) at 5 µg/mL (100 µL/well) can bind Human IL-4 R alpha & IL-13 R alpha 1 Protein, Fc Tag&Fc Tag (Cat. No. ILR-H525b) with a linear range of 0.02-0.625 µg/mL (Routinely tested).

## Background

Interleukin 4 Receptor (IL4R) also known as CD124, IL4R $\alpha$  and BSF receptor, is a type I cytokine receptor produced by activated Th2 cells and mast cells, and plays an important role in Th2-biased immune responses, alternative macrophage activation, mucosal immunity, allergic inflammation, tumor progression, and atherogenesis. A soluble form of the encoded IL4R protein can be produced by an alternate splice variant or by proteolysis of the membrane-bound protein, and this soluble form can inhibit IL4-mediated cell proliferation and IL5 upregulation by T-cells. IL4R can alternatively associate with IL13Ra1 to form the type II receptor which is responsive to both IL4 and IL13. Interleukin-4 receptor has been shown to interact with SHC1.

## Clinical and Translational Updates

Please contact us via [TechSupport@acrobiosystems.com](mailto:TechSupport@acrobiosystems.com) if you have any question on this product.

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