



Synonym

IL-4 R alpha & IL-13 R alpha 1, IL4RA & IL13RA1

Source

Biotinylated Human IL-4 R alpha & IL-13 R alpha 1 Protein, His,Avitag&His Tag (ILR-H82W3) is expressed from human 293 cells (HEK293). It contains AA Met 26 - His 232 & Gly 22 - Thr 343 (Accession # [P24394-1](#) & [P78552-1](#)).

Predicted N-terminus: Met 26 & Gly 22

Molecular Characterization

IL-4 R alpha (Met 26 - His 232) P24394-1	Poly-his	Avi
IL-13 R alpha 1 (Gly 22 - Thr 343) P78552-1	Poly-his	

Biotinylated Human IL-4 R alpha & IL-13 R alpha 1 Protein, His,Avitag&His Tag is produced by co-expression of IL-4 R alpha and IL-13 R alpha 1, has a calculated MW of 32.1 kDa (IL-4 R alpha) and 43.6 kDa (IL-13 R alpha 1). Subunit IL-4 R alpha is fused with a polyhistidine tag at the C-terminus, followed by an Avi tag (Avitag™) and subunit IL-13 R alpha 1 is fused with a polyhistidine tag at the C-terminus. The protein migrates as 43-55 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Purity

>95% as determined by SDS-PAGE.

>90% as determined by SEC-HPLC.

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.

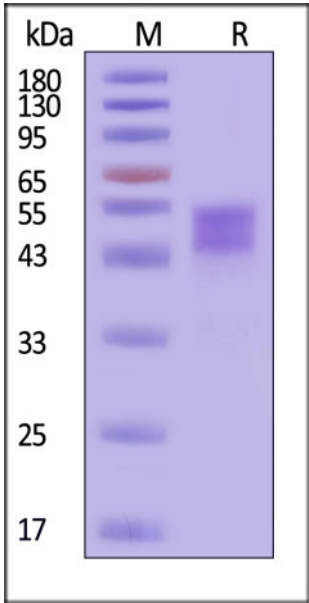
This product is stable after storage at:

- -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

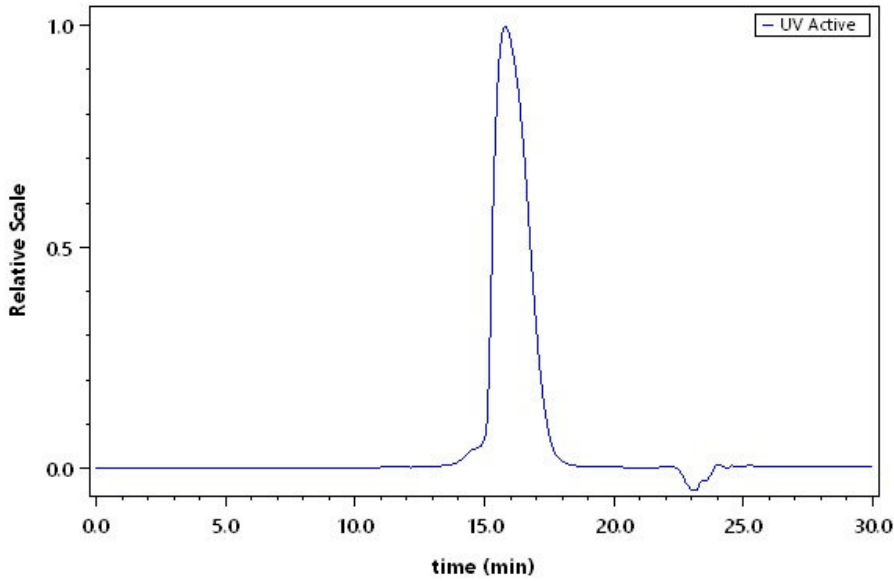
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



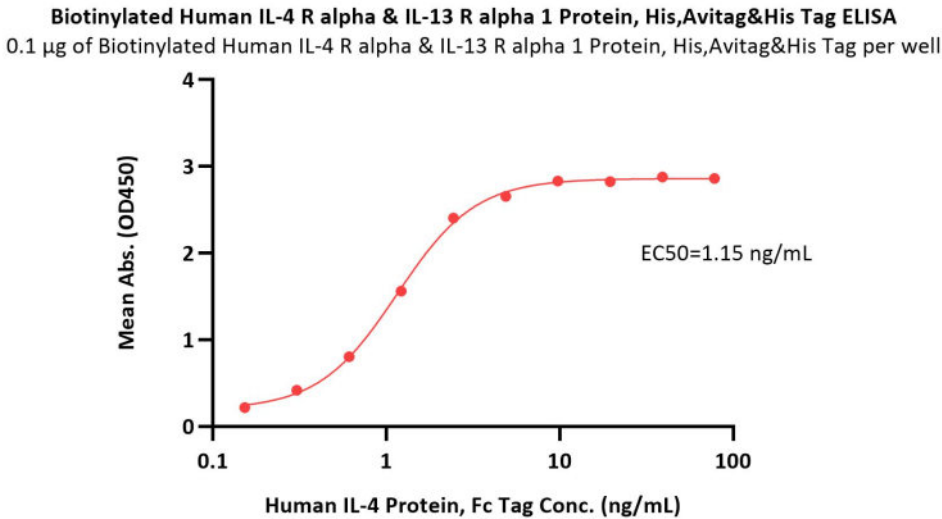
Biotinylated Human IL-4 R alpha & IL-13 R alpha 1 Protein, His,Avitag&His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-HPLC



The purity of Biotinylated Human IL-4 R alpha & IL-13 R alpha 1 Protein, His,Avitag&His Tag (Cat. No. ILR-H82W3) was greater than 90% as determined by SEC-HPLC.

Bioactivity-ELISA



Immobilized Biotinylated Human IL-4 R alpha & IL-13 R alpha 1 Protein, His,Avitag&His Tag (Cat. No. ILR-H82W3) at 1 µg/mL (100 µL/well) on streptavidin (Cat. No. STN-N5116) precoated (0.5 µg/well) plate can bind Human IL-4 Protein, Fc Tag (Cat. No. IL4-H5253) with a linear range of 0.2-5 ng/mL (QC tested).

Background

Interleukin 4 Receptor (IL4R) also known as CD124, IL4R α 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.



www.acrobiosystems.com