

Synonym

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

Source

Cynomolgus IL-4 R alpha & IL-13 R alpha 1 Protein, His Tag&His Tag (ILR-C52H9) is expressed from human 293 cells (HEK293). It contains AA Met 26 - Arg 232 & Ala 25 - Thr 341 (Accession # [G7Q0S7](#) & [XP_005594500.1](#)).
Predicted N-terminus: Met 26 & Ala 25

Molecular Characterization

IL-4 R alpha (Met 26 - Arg 232) G7Q0S7	Poly-his
IL-13 R alpha 1 (Ala 25 - Thr 341) XP_005594500.1	Poly-his

Other Tags and Version [Biotin & Other Labeled Version](#)

Cynomolgus IL-4 R alpha & IL-13 R alpha 1 Protein, His Tag&His Tag, produced by co-expression of IL-4 R alpha and IL-13 R alpha 1, has a calculated MW of 29.0 kDa (IL-4 R alpha) and 41.7 kDa (IL-13 R alpha 1). Subunit IL-4 R alpha is fused with a polyhistidine tag at the C-terminus, and subunit IL-13 R alpha 1 contains a polyhistidine tag at the C-terminus. The protein migrates as 40-60 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.

Purity

>90% 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

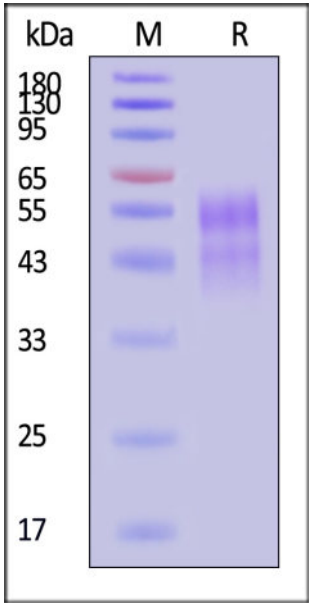
For long term storage, the product should be stored at lyophilized state at -20°C or lower.
Please avoid repeated freeze-thaw cycles.
This product is stable after storage at:

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

ACRO Quality Management System

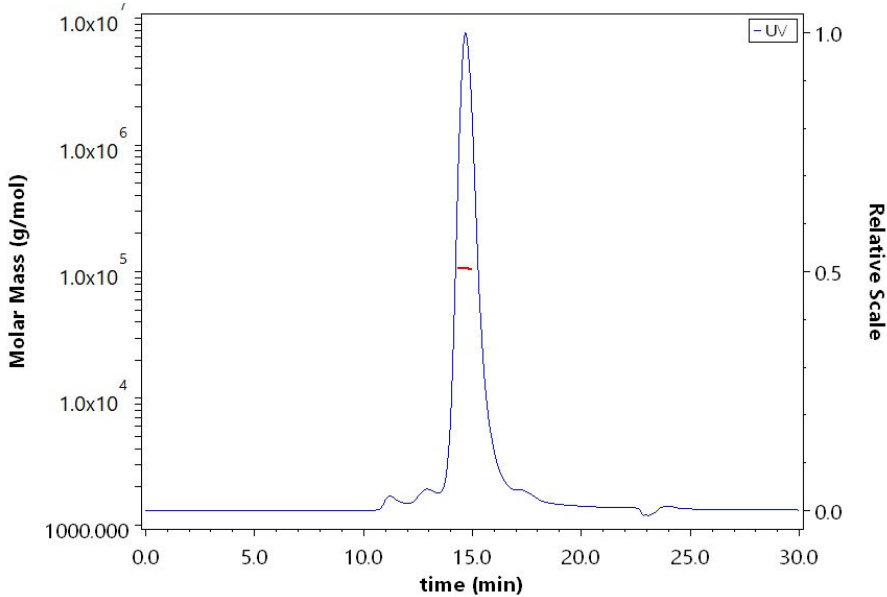
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



Cynomolgus IL-4 R alpha & IL-13 R alpha 1 Protein, His Tag&His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie

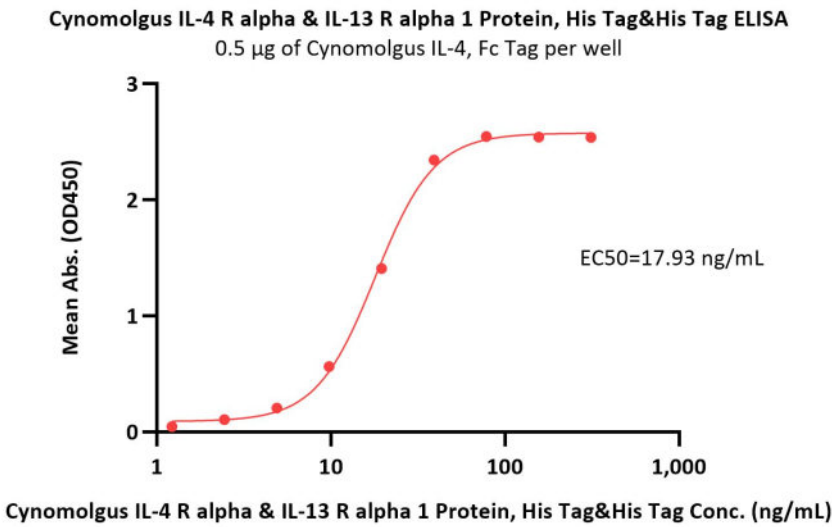
SEC-MALS



The purity of Cynomolgus IL-4 R alpha & IL-13 R alpha 1 Protein, His Tag&His Tag (Cat. No. ILR-C52H9) is more than 90% and the molecular

Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)). weight of this protein is around 90-120 kDa verified by SEC-MALS.

Bioactivity-ELISA



Immobilized Cynomolgus IL-4, Fc Tag (Cat. No. IL4-C5259) at 5 µg/mL (100 µL/well) can bind Cynomolgus IL-4 R alpha & IL-13 R alpha 1 Protein, His Tag&His Tag (Cat. No. ILR-C52H9) with a linear range of 1-39 ng/mL (QC tested).

Background

Interleukin 4 Receptor (IL4R) also known as CD124, IL4Rα 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.

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