



Synonym

IL4,BCGF1,BSF1

Source

Cynomolgus IL-4, Fc Tag(IL4-C5259) is expressed from human 293 cells (HEK293). It contains AA His 25 - Ser 153 (Accession # [P79339-1](#)).

Predicted N-terminus: His 25

Molecular Characterization

IL-4(His 25 - Ser 153) P79339-1	Fc(Pro 100 - Lys 330) P01857
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This protein carries a human IgG1 Fc tag at the C-terminus.

The protein has a calculated MW of 41.4 kDa. The protein migrates as 46-50 kDa and 53 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per µg by the LAL method.

Purity

>90% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

Formulation

Lyophilized from 0.22 µm filtered solution in 50 mM Tris, 100 mM Glycine, 25 mM Arginine, 150 mM NaCl, pH7.5 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

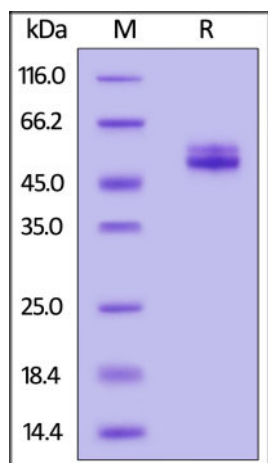
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

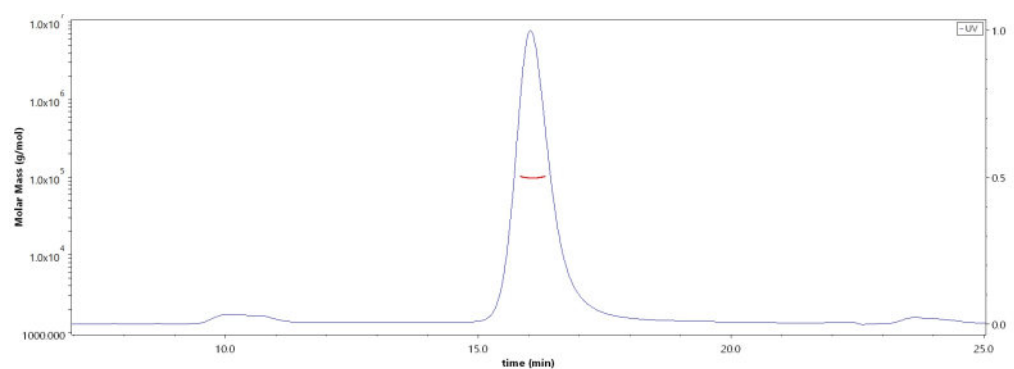
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Cynomolgus IL-4, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%.

SEC-MALS



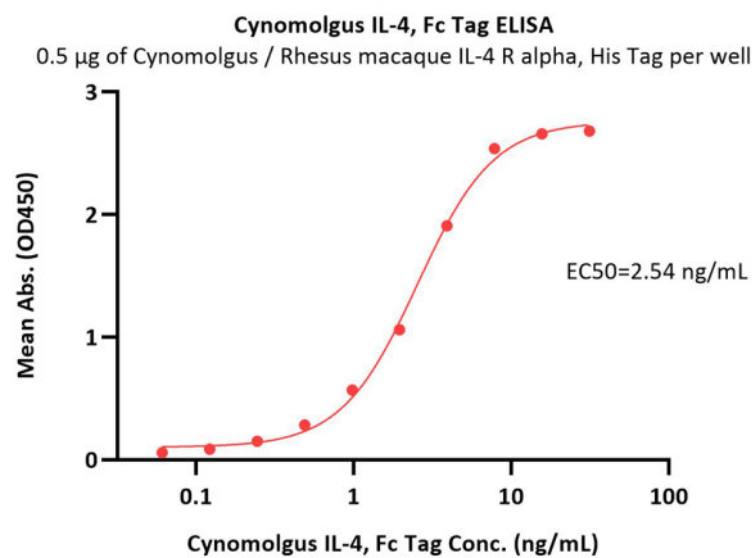
The purity of Cynomolgus IL-4, Fc Tag (Cat. No. IL4-C5259) is more than 90% and the molecular weight of this protein is around 85-115 kDa verified by SEC-MALS.

[Report](#)

Bioactivity-ELISA

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Immobilized Cynomolgus / Rhesus macaque IL-4 R alpha, His Tag (Cat. No. ILR-C52H8) at 5 µg/mL (100 µL/well) can bind Cynomolgus IL-4, Fc Tag (Cat. No. IL4-C5259) with a linear range of 0.1-4 ng/mL (QC tested).

Background

Interleukin-4, is a cytokine that induces differentiation of naive helper T cells (Th0 cells to Th2 cells). In the presence of IL-4 and IL-13, cytokines that are produced in a Th-2 type response, particularly during allergy and parasitic infections, macrophages become differentially activated, And this cytokine is a ligand for interleukin 4 receptor. The interleukin 4 receptor also binds to IL13, which may contribute to many overlapping functions of this cytokine and IL13. STAT6, a signal transducer and activator of transcription, has been shown to play a central role in mediating the immune regulatory signal of this cytokine. Recently, researcher found that the cytokine IL-4 plays a key role in development of innate CD8+ T cells in the thymus of several gene-deficient mouse strains, including Itk, KLF2, CBP and Id3, without previous exposure to antigen.

Clinical and Translational Updates

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