

# Cynomolgus IL-13 Protein, His Tag, low endotoxin (MALS verified)

Catalog # IL3-C5249



BIOSYSTEMS  
**Acro**

Surprise Inside!

## Synonym

IL13, ALRH, BHR1, MGC116786, MGC116788, MGC116789, P600, Interleukin-13

## Source

Cynomolgus IL-13, His Tag (IL3-C5249) is expressed from human 293 cells (HEK293). It contains AA Ser 21 - Asn 132 (Accession # [ABG75889.1](#)).

Predicted N-terminus: His

## Molecular Characterization

Poly-his	IL-13(Ser 21 - Asn 132) ABG75889.1
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This protein carries a polyhistidine tag at the N-terminus.

The protein has a calculated MW of 14.2 kDa. The protein migrates as 25-39 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

## Endotoxin

Less than 0.01 EU per µg by the LAL method / rFC method.

## Purity

>90% as determined by SDS-PAGE.

>95% 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.**

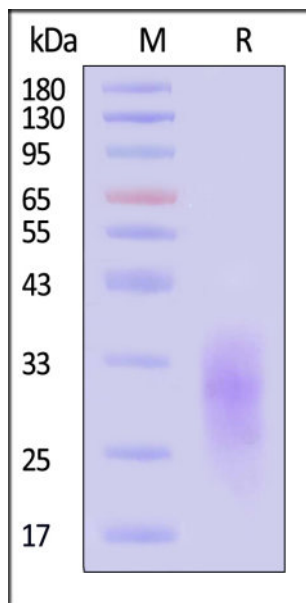
This product is stable after storage at:

- -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

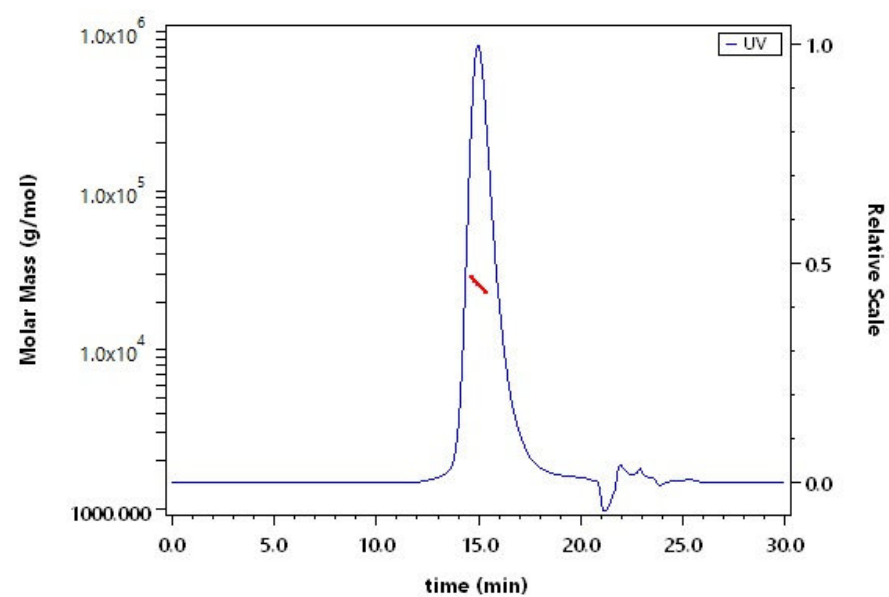
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

## SDS-PAGE



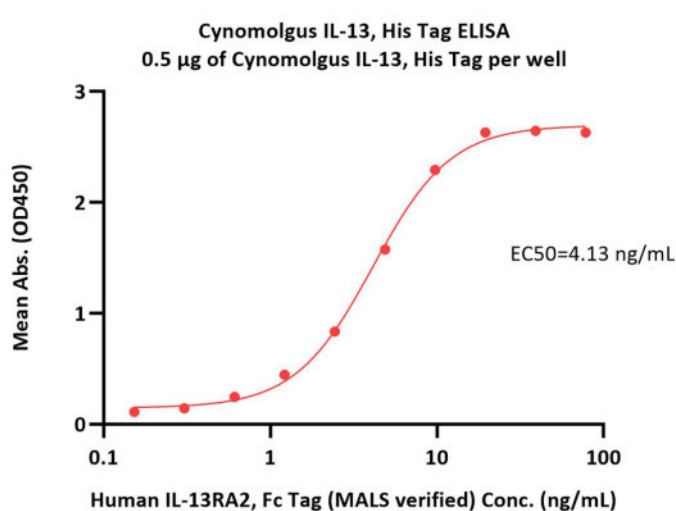
Cynomolgus IL-13, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

## SEC-MALS



The purity of Cynomolgus IL-13, His Tag (Cat. No. IL3-C5249) is more than 95% and the molecular weight of this protein is around 22-30 kDa verified by SEC-MALS.

## Bioactivity-ELISA



Immobilized Cynomolgus IL-13, His Tag (Cat. No. IL3-C5249) at 5 µg/mL (100 µL/well) can bind Human IL-13RA2, Fc Tag (MALS verified) (Cat. No. IL2-H5256) with a linear range of 0.2-10 ng/mL (QC tested).

## Background

Interleukin 13 (IL13) is also known as ALRH, BHR1 and P600, is a single-chain glycosylated polypeptide, and is a cytokine critical in regulating inflammatory and immune responses. IL13 is secreted by many cell types, but especially by T helper type 2 (Th2) cells. IL-13 induces its effects through a multi-subunit receptor that includes the alpha chain of the IL-4 receptor (IL-4R $\alpha$ ) and at least one of two known IL-13-specific binding chains. The functions of IL-13 overlap considerably with those of IL-4, especially with regard to changes induced on hematopoietic cells, but these effects are probably less important given the more potent role of IL-4. IL-13 induces matrix metalloproteinases (MMPs) as part of a mechanism that protects against excessive allergic inflammation that predisposes to asphyxiation. IL-13 induces many features of allergic lung disease, including airway hyperresponsiveness, goblet cell metaplasia and mucus hypersecretion, which all contribute to airway obstruction.

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