

Cynomolgus IL-31 Protein, His Tag, low endotoxin (MALS verified)

Catalog # IL1-C52H3



BIOSYSTEMS
Acro

Surprise Inside!

Synonyms

IL-31, IL31, Interleukin-31

Source

Cynomolgus IL-31 Protein, His Tag (IL1-C52H3) is expressed from human 293 cells (HEK293). It contains AA Leu 27 - Thr 163 (Accession # [G7PJ78-1](#)).

Predicted N-terminus: His

Molecular Characterization

Poly-his

IL-31 (Leu 27 - Thr 163)
G7PJ78-1

This protein carries a polyhistidine tag at the N-terminus.

The protein has a calculated MW of 17.3 kDa. The protein migrates as 21-24 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.

Shipping and Storage

This product is shipped at ambient temperature.

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

Please avoid repeated freeze-thaw cycles.

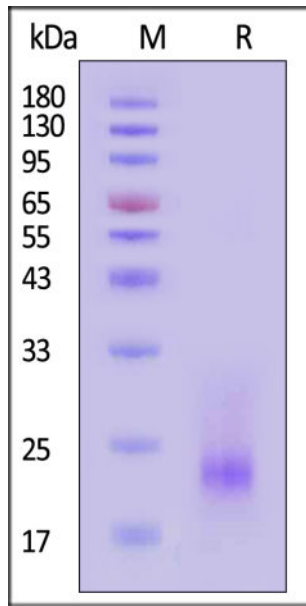
This product is stable after storage at:

- -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

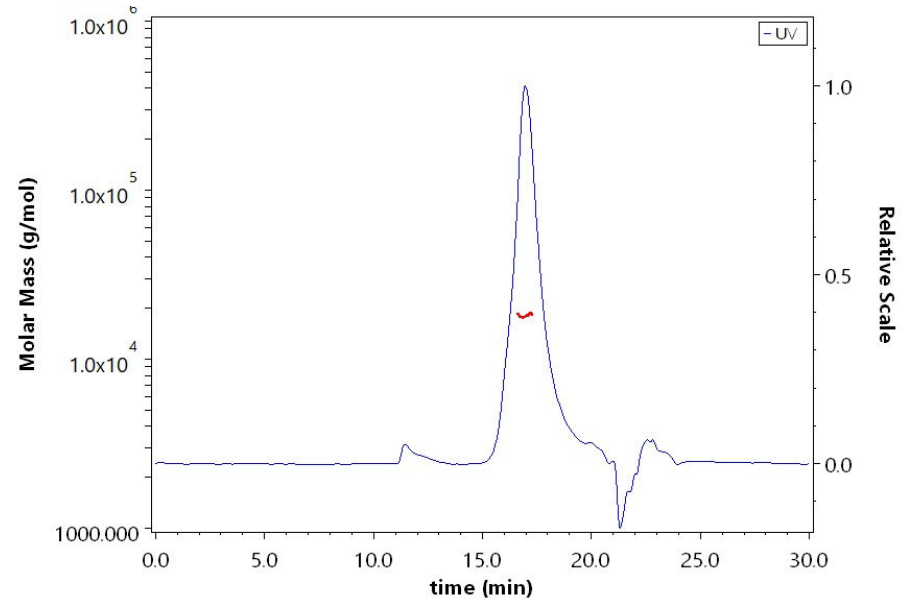
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



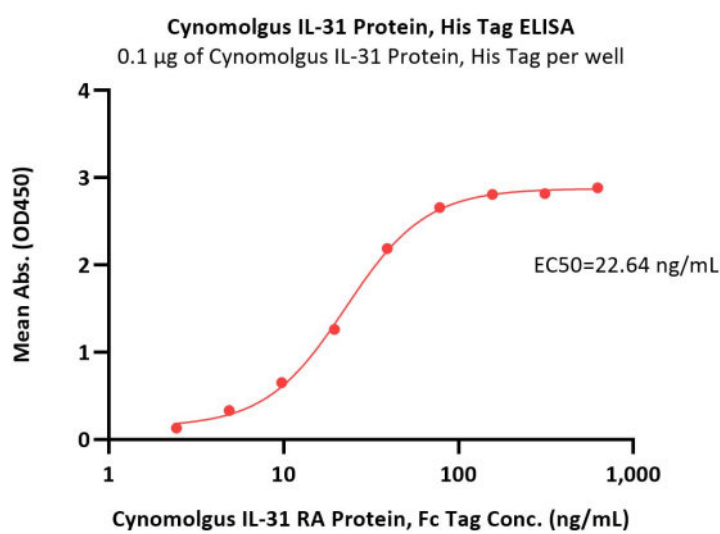
Cynomolgus IL-31 Protein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-MALS



The purity of Cynomolgus IL-31 Protein, His Tag (Cat. No. IL1-C52H3) is more than 95% and the molecular weight of this protein is around 15-25 kDa verified by SEC-MALS.

Bioactivity-ELISA



Immobilized Cynomolgus IL-31 Protein, His Tag (Cat. No. IL1-C52H3) at 1 $\mu\text{g/mL}$ (100 $\mu\text{L/well}$) can bind Cynomolgus IL-31 RA Protein, Fc Tag (Cat. No. ILA-H525b) with a linear range of 2-39 ng/mL (QC tested).

Background

IL-31 is an inflammatory cytokine that helps trigger cell-mediated immunity against pathogens. Activates STAT3 and possibly STAT1 and STAT5 through the IL31 heterodimeric receptor composed of IL31RA and OSMR. It has also been identified as a major player in a number of chronic inflammatory diseases, including atopic dermatitis. May function in skin immunity. IL-31 is produced by a variety of cells, namely type 2 helper (TH2) T-cells. IL-31 sends signals through a receptor complex made of IL-31RA and oncostatin M receptor β (OSMR β) expressed in immune and epithelial cells. These signals activate three pathways: ERK1/2 MAP kinase, PI3K/AKT, and JAK1/2 signaling pathways.

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