

Biotinylated Human IL-31 Protein, His,Avitag™ (MALS verified)

Catalog # IL1-H82E6



Synonym

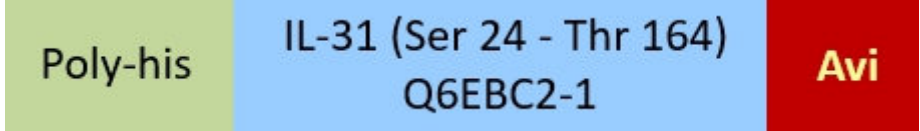
IL-31, IL31, Interleukin-31

Source

Biotinylated Human IL-31 Protein, His,Avitag (IL1-H82E6) is expressed from human 293 cells (HEK293). It contains AA Ser 24 - Thr 164 (Accession # [Q6EBC2-1](#)).

Predicted N-terminus: His

Molecular Characterization



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

This protein carries a polyhistidine tag at the N-terminus and an Avi tag (Avitag™) at the C-terminus. The protein has a calculated MW of 19.9 kDa. The protein migrates as 27-35 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Labeling

Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.

Protein Ratio

Passed as determined by the HABA assay / binding ELISA.

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:

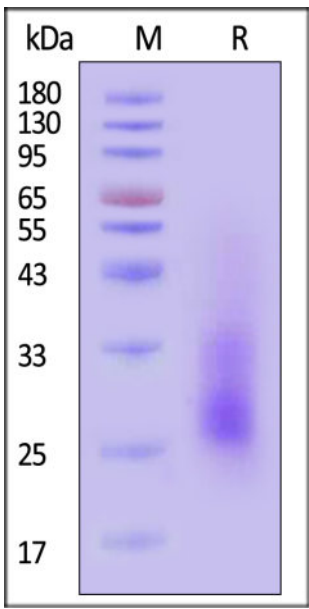
- 20°C to -70°C for 12 months in lyophilized state;
- 70°C for 3 months under sterile conditions after reconstitution.

ACRO Quality Management System

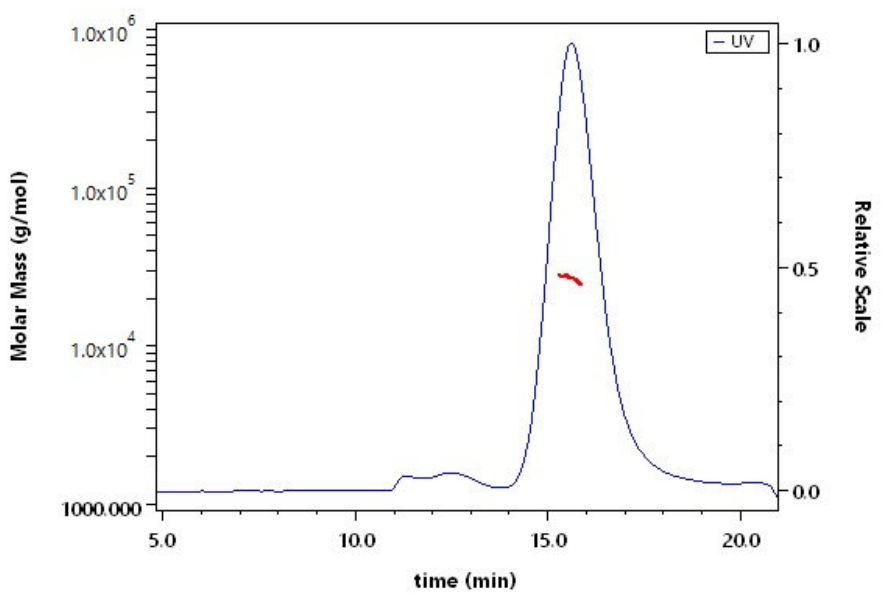
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE

SEC-MALS

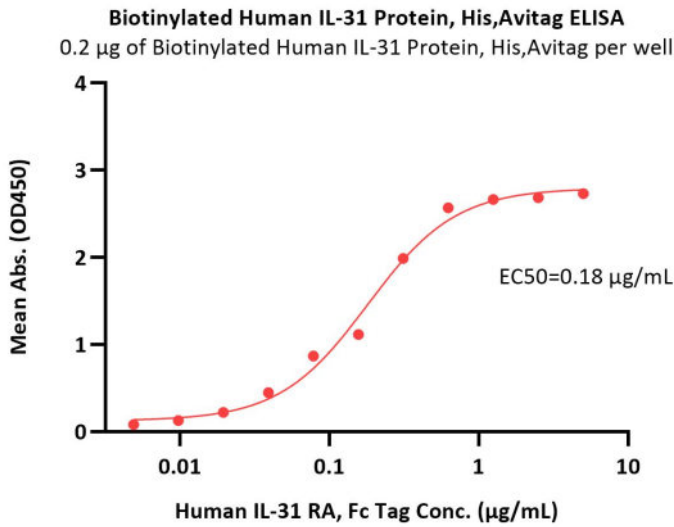


Biotinylated Human IL-31 Protein, His,Avitag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).



The purity of Biotinylated Human IL-31 Protein, His,Avitag (Cat. No. IL1-H82E6) is more than 95% and the molecular weight of this protein is around 22-34 kDa verified by SEC-MALS.

Bioactivity-ELISA



Immobilized Biotinylated Human IL-31 Protein, His,Avitag (Cat. No. IL1-H82E6) at 2 μg/mL (100 μL/well) on streptavidin (Cat. No. STN-N5116) precoated (0.5 μg/well) plate can bind Human IL-31 RA, Fc Tag (Cat. No. ILA-H5256) with a linear range of 0.005-1.25 μg/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 (OSMRβ) 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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