

Biotinylated Human IL-9 Protein, His,Avitag™ (MALS verified)

Catalog # IL9-H82E3



BIOSYSTEMS
Acro

Synonym

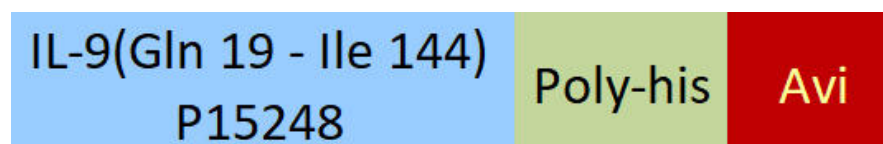
Interleukin-9, IL-9, Cytokine P40

Source

Biotinylated Human IL-9 Protein, His,Avitag (IL9-H82E3) is expressed from human 293 cells (HEK293). It contains AA Gln 19 - Ile 144 (Accession # [P15248](#)).

Predicted N-terminus: Gln 19

Molecular Characterization



This protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag (Avitag™).

The protein has a calculated MW of 17.7 kDa. The protein migrates as 32-42 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

>95% 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.

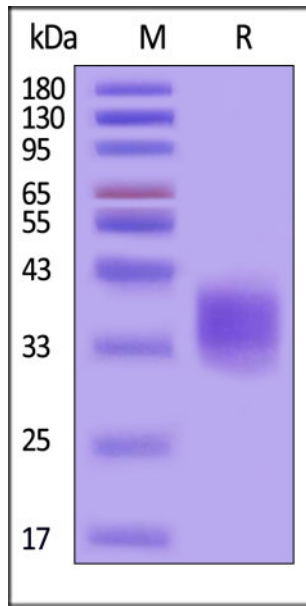
This product is stable after storage at:

- -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

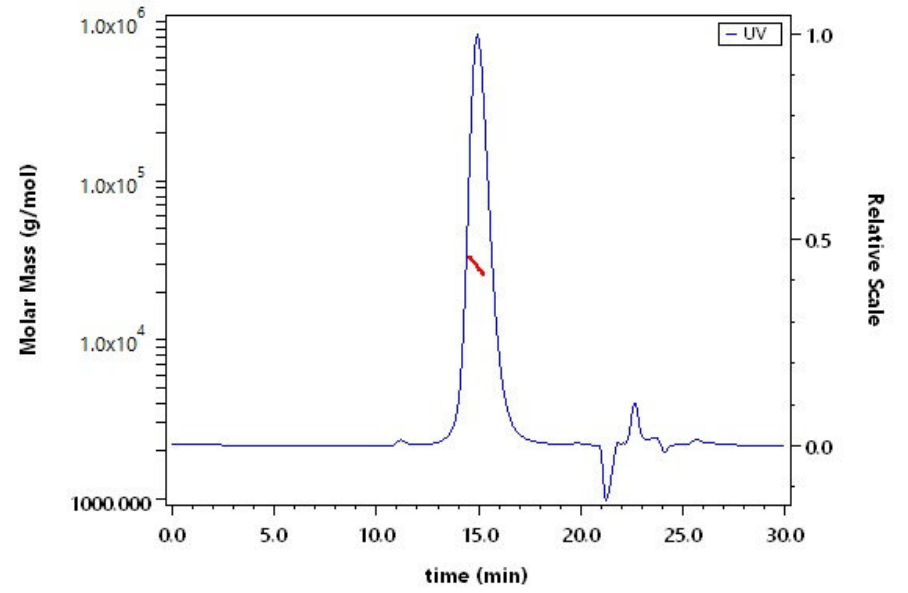
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



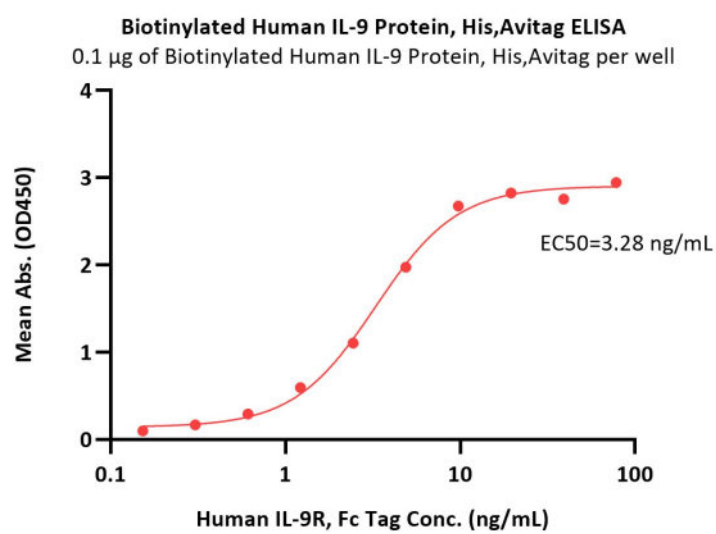
Biotinylated Human IL-9 Protein, His,Avitag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-MALS



The purity of Biotinylated Human IL-9 Protein, His,Avitag (Cat. No. IL9-H82E3) is more than 95% and the molecular weight of this protein is around 25-32 kDa verified by SEC-MALS.

Bioactivity-ELISA



Immobilized Biotinylated Human IL-9 Protein, His,Avitag (Cat. No. IL9-H82E3) at 1 µg/mL (100 µL/well) on streptavidin (Cat. No. STN-N5116) precoated (0.5 µg/well) plate can bind Human IL-9R, Fc Tag (Cat. No. ILR-H5251) with a linear range of 0.2-10 ng/mL (QC tested).

Background

Interleukin-9 (IL-9) is expressed primarily by activated T cells. The growth factor and anti apoptotic activities of IL-9 on multiple transformed cells suggest a potential role for the cytokine in tumourigenesis. IL-9 has also been proposed as a candidate gene for asthma. IL-9 is a Th2-derived cytokine that has been reported to regulate T and B cell function. IL-9 was first isolated as a factor capable of sustaining the long-term growth of murine T cell clones, but has since been demonstrated to have in vitro activities on mast cells, erythroid progenitors, and B cell Ig expression.

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