

Human IL-9 Protein, His Tag (MALS verified)

Catalog # IL9-H52H9



BIOSYSTEMS
Acro

Synonyms

Interleukin-9, IL-9, Cytokine P40

Source

Human IL-9 Protein, His Tag (IL9-H52H9) is expressed from human 293 cells (HEK293). It contains AA Gln 19 - Ile 144 (Accession # [P15248-1](#)).

Predicted N-terminus: Gln 19

Molecular Characterization

IL-9(Gln 19 - Ile 144)
P15248-1

Poly-his

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

The protein has a calculated MW of 16.0 kDa. The protein migrates as 28-37 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 0.1 EU per µg by the LAL method / rFC method.

Sterility

Negative

Mycoplasma

Negative

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.

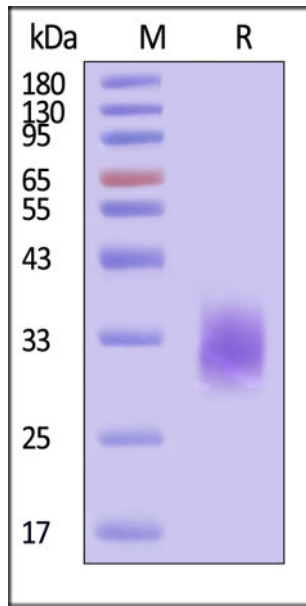
This product is stable after storage at:

- -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

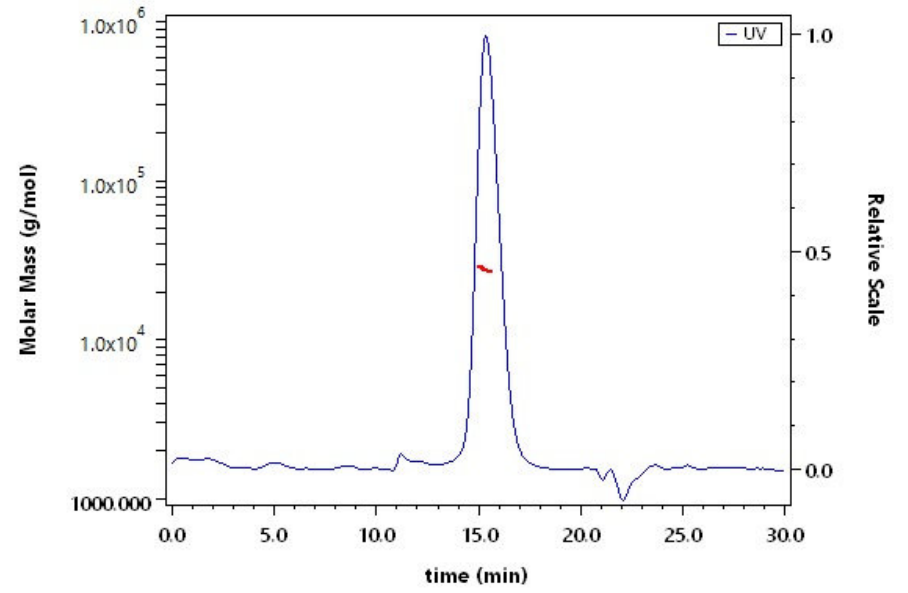
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



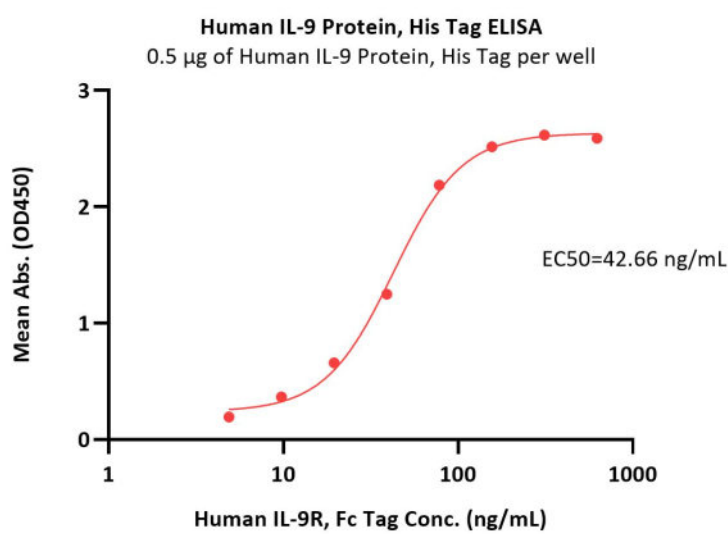
Human IL-9 Protein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-MALS



The purity of Human IL-9 Protein, His Tag (Cat. No. IL9-H52H9) is more than 95% and the molecular weight of this protein is around 23-33 kDa verified by SEC-MALS.

Bioactivity-ELISA



Immobilized Human IL-9 Protein, His Tag (Cat. No. IL9-H52H9) at 5 µg/mL (100 µL/well) can bind Human IL-9R, Fc Tag (Cat. No. ILR-H5251) with a linear range of 5-78 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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