

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

Catalog # IL9-M52H3



Synonym

Interleukin-9, IL-9, Cytokine P40

Source

Mouse IL-9 Protein, His Tag (IL9-M52H3) is expressed from human 293 cells (HEK293). It contains AA Gln 19 - Arg 144 (Accession # [P15247](#)).

Predicted N-terminus: Gln 19

Molecular Characterization

IL-9(Gln 19 - Arg 144)
P15247

Poly-his

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

The protein has a calculated MW of 16.1 kDa. The protein migrates as 28-38 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per µg by the LAL method / rFC method.

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.

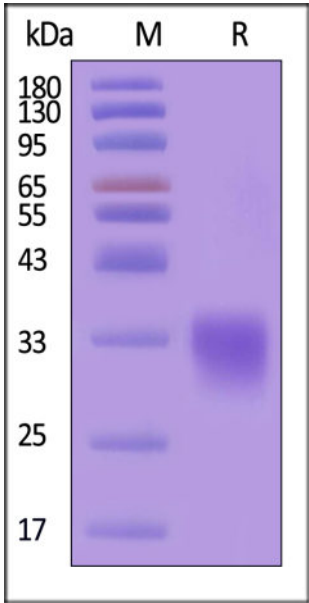
This product is stable after storage at:

- -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

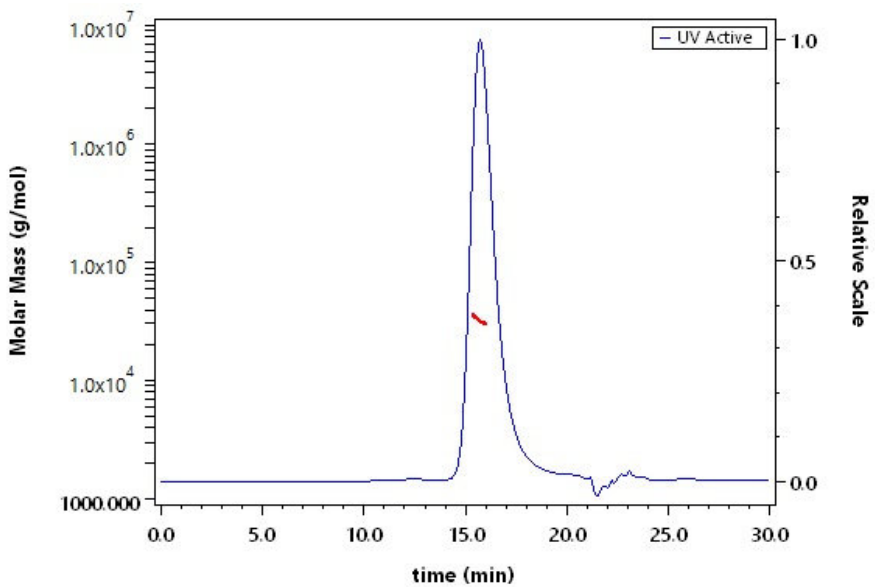
- [QMS\(ISO, GMP\)](#).
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



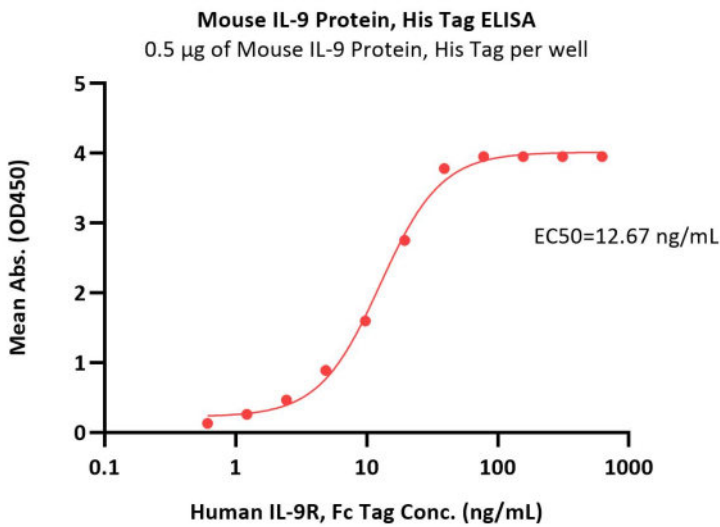
Mouse IL-9 Protein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-MALS



The purity of Mouse IL-9 Protein, His Tag (Cat. No. IL9-M52H3) is more than 95% and the molecular weight of this protein is around 27-35 kDa verified by SEC-MALS.

Bioactivity-ELISA



Immobilized Mouse IL-9 Protein, His Tag (Cat. No. IL9-M52H3) at 5 µg/mL (100 µL/well) can bind Human IL-9R, Fc Tag (Cat. No. ILR-H5251) with a linear range of 0.6-39 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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