# Human IL-9 Protein, Ultra Low Endotoxin

**Cat. No.** IL9-HM101-UL

## Description

| | |
|---|---|
| **Source** | Recombinant Human IL-9 Protein is expressed from HEK293 with His tag at the C-Terminus. |
| | It contains Gln19-Ile144. |
| **Accession** | P15248 |
| **Molecular Weight** | The protein has a predicted MW of 15.3 kDa. Due to glycosylation, the protein migrates to 40-50 kDa based on Bis-Tris PAGE result. |
| **Endotoxin** | Less than 0.01 EU per μg by the LAL method. |
| **Purity** | > 95% as determined by Bis-Tris PAGE |
| | > 95% as determined by HPLC |

## Formulation and Storage

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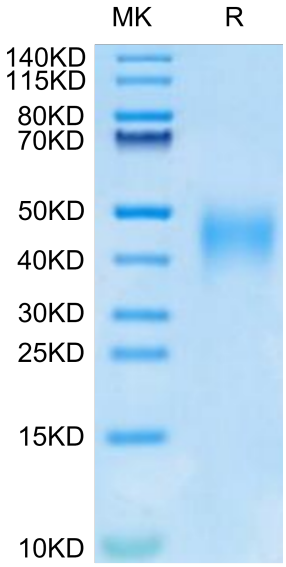
|---|---|
| **Formulation** | Lyophilized from 0.22μm filtered solution in 20mM Tris, 150mM NaCl (pH 7.5). Normally 8% trehalose is added as protectant before lyophilization. |
| **Reconstitution** | Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions. |
| **Storage** | -20 to -80°C for 12 months as supplied from date of receipt.-80°C for 3 months after reconstitution.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles. |

## Background

IL-9 is a pleiotropic cytokine that influences various distinct functions of different target cells such as T cells, B cells, mast cells and airway epithelial cells by activating STAT1, STAT3 and STAT5. Because of its pleiotropic functions, IL-9 has been demonstrated to be involved in several diseases, such as cancer, autoimmunity and other pathogen-mediated immune-regulated diseases.

## Assay Data

**Bis-Tris PAGE**




Human IL-9 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

**SEC-HPLC**

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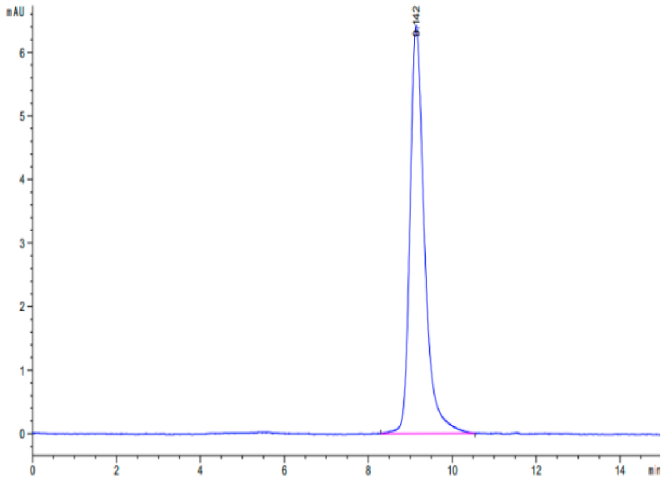
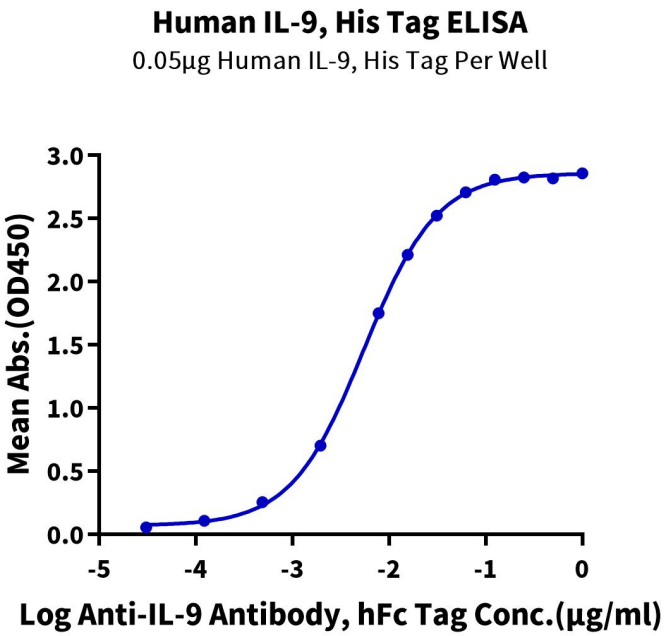
## Assay Data



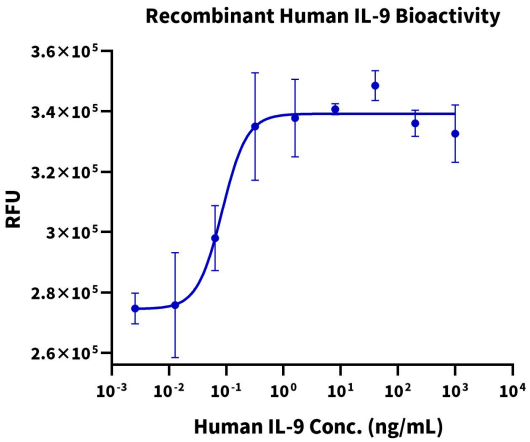

The purity of Human IL-9 is greater than 95% as determined by SEC-HPLC.

### ELISA Data




Immobilized Human IL-9, His Tag at 0.5μg/ml (100μl/Well) on the plate. Dose response curve for Anti-IL-9 Anitibody, hFc Tag with the EC50 of 5.5ng/ml determined by ELISA (QC Test).

### Cell Based Assay




Measured in a cell proliferation assay using MO7e human megakaryocytic leukemic cells. The ED50 for this effect is < 1 ng/mL (QC Test).