

Human IL-9 Protein

Cat. No. IL9-HM201

Description

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|-------------------------|--|
| Source | Recombinant Human IL-9 Protein is expressed from HEK293 with hFc tag at the C-Terminus. It contains Gln19-Ile144. |
| Accession | P15248 |
| Molecular Weight | The protein has a predicted MW of 40.9 kDa. Due to glycosylation, the protein migrates to 50-70 kDa based on Bis-Tris PAGE result. |
| Endotoxin | Less than 1EU per µg by the LAL method. |
| Purity | > 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC |

Formulation and Storage

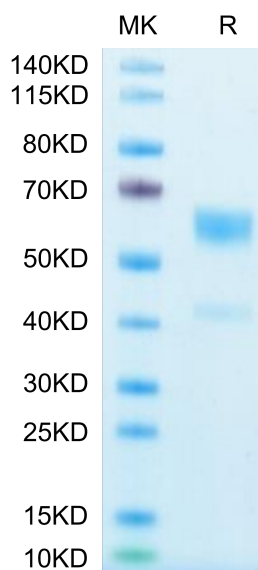
| | |
|--------------------|--|
| Formulation | Supplied as 0.22µm filtered solution in PBS (pH 7.4). |
| Storage | Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles. |

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. In this review, we focus on the role of Th9 and IL-9-producing cells in allergic asthma.

Assay Data

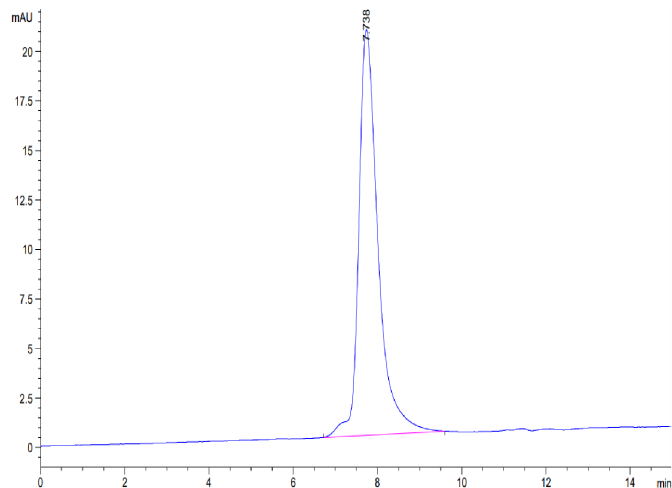
Bis-Tris PAGE



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

SEC-HPLC

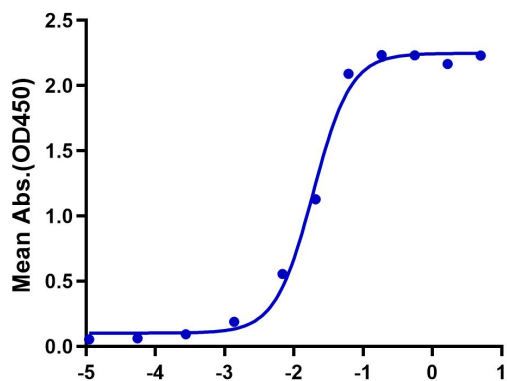
Assay Data



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

ELISA Data

Human IL-9, hFc Tag ELISA
0.05µg Human IL-9, hFc Tag Per Well



Immobilized Human IL-9, hFc Tag at 0.5µg/ml (100µl/Well) on the plate. Dose response curve for Biotinylated Anti-IL-9 Antibody, hFc Tag with the EC50 of 18.9ng/ml determined by ELISA.