

# Cynomolgus IL-9 Protein

Cat. No. IL9-CM101



## Description

<b>Source</b>	Recombinant Cynomolgus IL-9 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Arg19-Ile144.
<b>Accession</b>	A0A7N9IA33
<b>Molecular Weight</b>	The protein has a predicted MW of 14.99 kDa. Due to glycosylation, the protein migrates to 35-50 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 0.1 EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

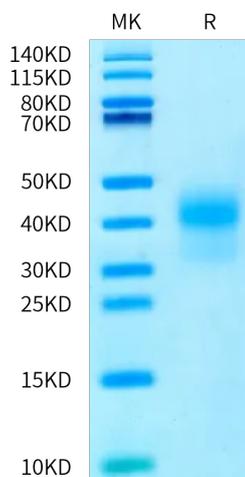
<b>Formulation</b>	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
<b>Storage</b>	-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.

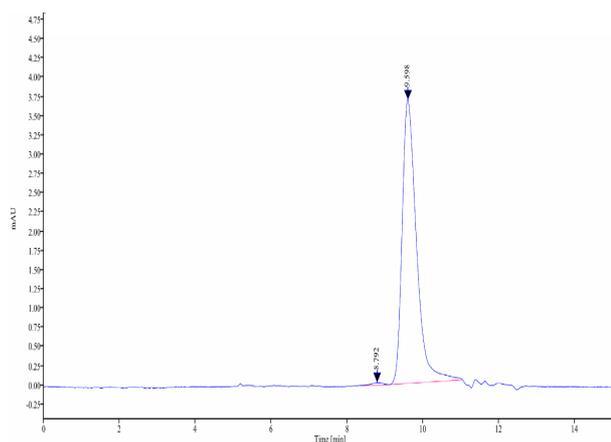
## Assay Data

### Bis-Tris PAGE



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

### SEC-HPLC



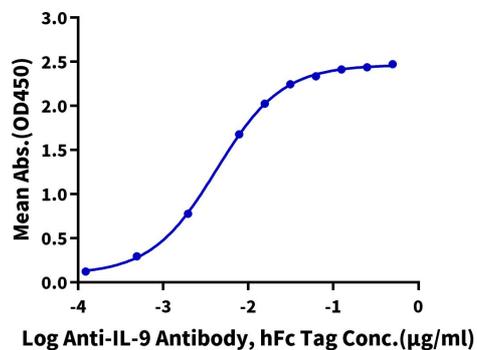
The purity of Cynomolgus IL-9 is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

**Cynomolgus IL-9, His Tag ELISA**

0.1µg Cynomolgus IL-9, His Tag Per Well



Immobilized Cynomolgus IL-9, His Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Anti-IL-9 Antibody, hFc Tag with the EC50 of 4.2ng/ml determined by ELISA.