

# Cynomolgus IL-4 Protein, Ultra Low Endotoxin

Cat. No. IL4-CM101-UL

## Description

<b>Source</b>	Recombinant Cynomolgus IL-4 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains His25-Ser153.
<b>Accession</b>	P79339-1
<b>Molecular Weight</b>	The protein has a predicted MW of 16.03 kDa. Due to glycosylation, the protein migrates to 20-28 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 0.01 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

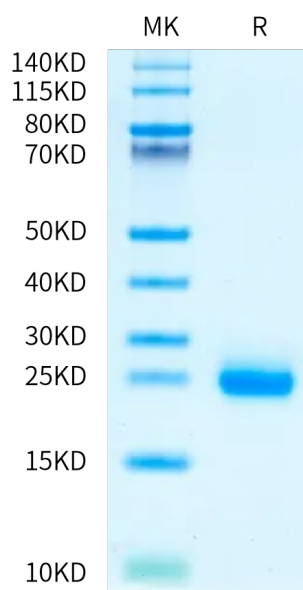
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
<b>Storage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

Interleukin-4, also known as IL4, is a secreted protein which belongs to the IL-4 / IL-13 family. Interleukin-4 / IL4 has many biological roles, including the stimulation of activated B-cell and T-cell proliferation. In the presence of IL-4 and IL-13, cytokines that are produced in a Th-2 type response, particularly during allergy and parasitic infections, macrophages become differentially activated, And this cytokine is a ligand for interleukin 4 receptor. .

## Assay Data

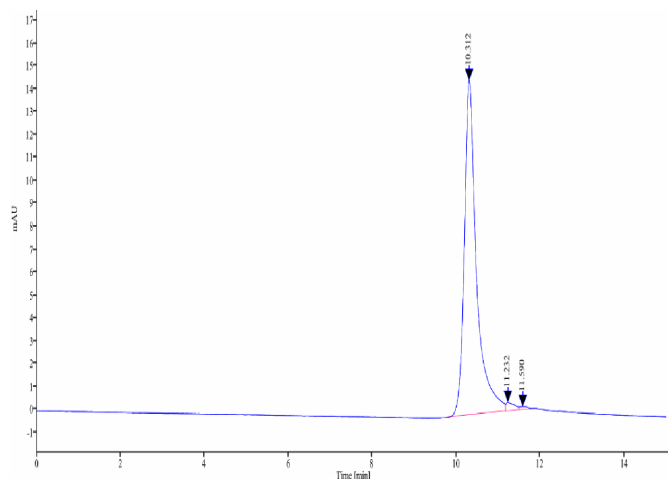
### Bis-Tris PAGE



Cynomolgus IL-4 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC

**Assay Data**

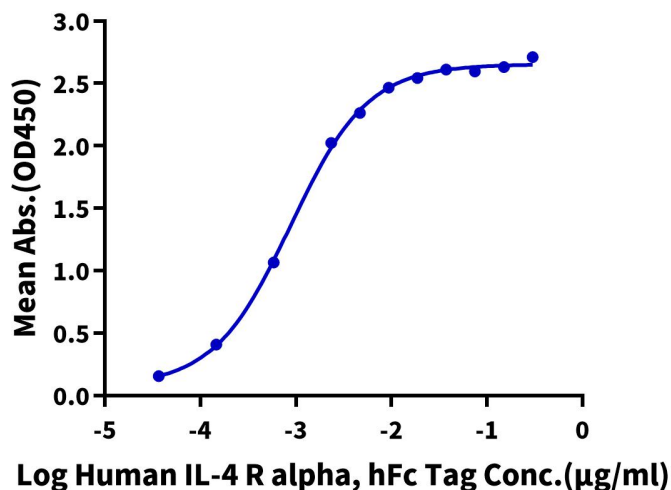


The purity of Cynomolgus IL-4 is greater than 95% as determined by SEC-HPLC.

**ELISA Data**

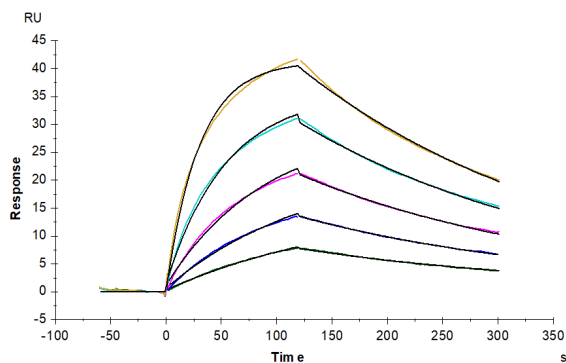
**Cynomolgus IL-4, His Tag ELISA**

0.2µg Cynomolgus IL-4, His Tag Per Well



Immobilized Cynomolgus IL-4, His Tag at 2µg/ml (100µl/well) on the plate. Dose response curve for Human IL-4 R alpha, hFc Tag (Cat. ILA-HM24R) with the EC50 of 0.88ng/ml determined by ELISA (QC Test).

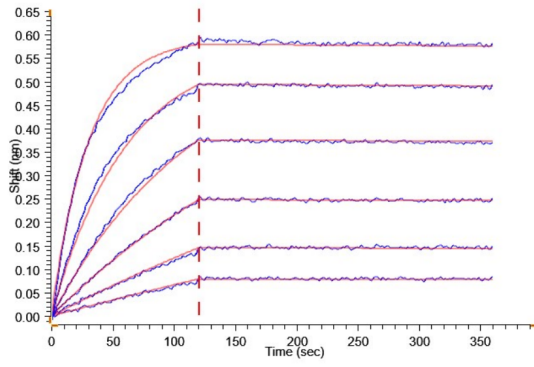
**SPR Data**



Cynomolgus IL-4, His Tag immobilized on CM5 Chip can bind Cynomolgus IL-4 R alpha, His Tag (Cat. ILA-CM14R) with an affinity constant of 13.48 nM as determined in SPR assay (Biacore T200).

**BLI Data**

Assay Data



Loaded Cynomolgus IL-4, His Tag on Anti-His-Biosensor can bind Human IL-4 R alpha, hFc Tag (Cat. ILA-HM24R) with an affinity constant of 43.7 pM as determined in BLI assay .