

# Cynomolgus IL-4 R alpha/CD124 Protein, Ultra Low Endotoxin

Cat. No. ILA-CM14R-UL

## Description

<b>Source</b>	Recombinant Cynomolgus IL-4 R alpha/CD124 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Met26-Arg232.
<b>Accession</b>	G7Q0S7
<b>Molecular Weight</b>	The protein has a predicted MW of 24.84 kDa. Due to glycosylation, the protein migrates to 45-60 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

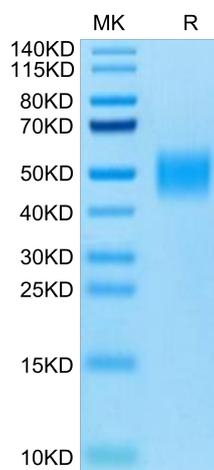
<b>Formulation</b>	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
<b>Storage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

Interleukin 4 Receptor alpha (IL-4 Ra), also known as CD124 and BSF receptor, is a widely expressed 140 kDa transmembrane glycoprotein in the class I cytokine receptor family. The effects of IL-4 are mediated after binding to high affinity receptor complexes present on hematopoietic as well as non-hematopoietic cells.

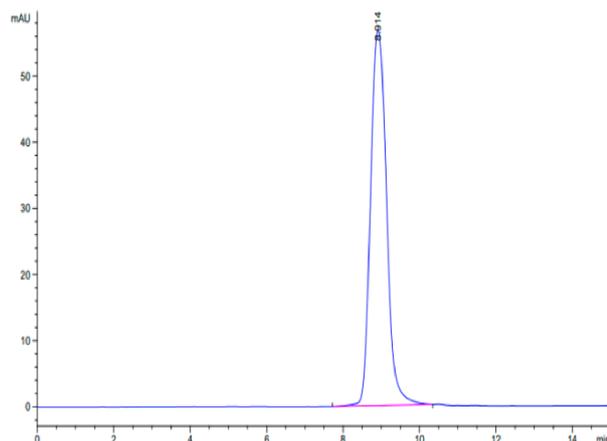
## Assay Data

### Bis-Tris PAGE



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

### SEC-HPLC



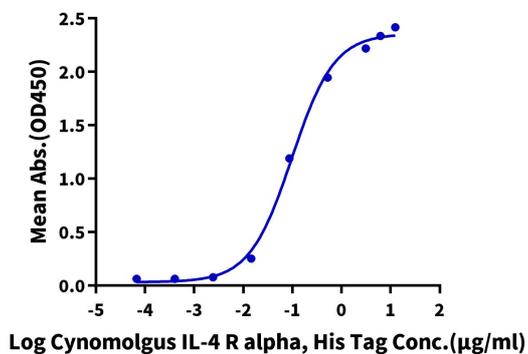
The purity of Cynomolgus IL-4 R alpha is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

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

0.5µg Human IL-4, No Tag Per Well

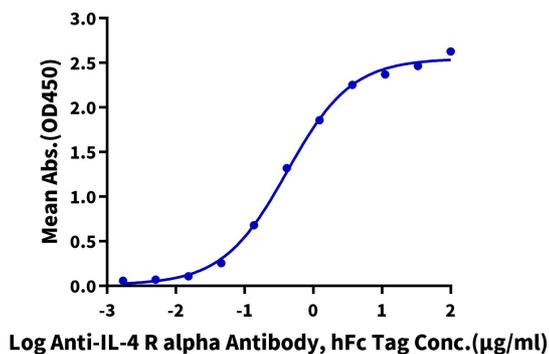


Immobilized Human IL-4, No Tag at 5 µg/ml (100 µl/well) on the plate. Dose response curve for Cynomolgus IL-4 R alpha, His Tag with the EC50 of 97.8 ng/ml determined by ELISA (QC Test).

ELISA Data

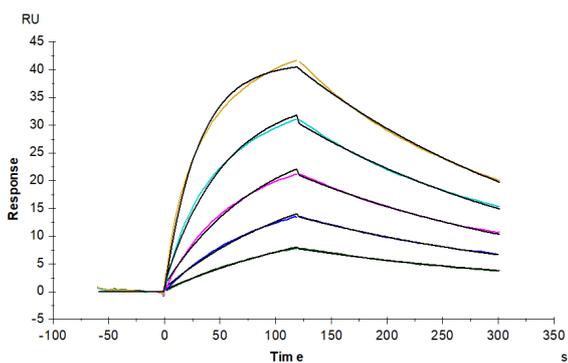
**Cynomolgus IL-4 R alpha, His Tag ELISA**

0.5µg Cynomolgus IL-4 R alpha, His Tag Per Well



Immobilized Cynomolgus IL-4 R alpha, His Tag at 5µg/ml (100µl/well) on the plate. Dose response curve for Anti-IL-4 R alpha Antibody, hFc Tag with the EC50 of 0.42µg/ml determined by ELISA.

SPR Data



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