

# Cynomolgus IL-5 Protein

Cat. No. IL5-CM101

## Description

<b>Source</b>	Recombinant Cynomolgus IL-5 Protein is expressed from HEK293 with His tag at the N-Terminus. It contains Ile20-Ser134.
<b>Accession</b>	A0A2K5U1E7
<b>Molecular Weight</b>	The protein has a predicted MW of 14.25 kDa. Due to glycosylation, the protein migrates to 20-25 kDa based on Tris-Bis PAGE result.
<b>Endotoxin</b>	Less than 1EU per $\mu\text{g}$ by the LAL method.
<b>Purity</b>	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

## Formulation and Storage

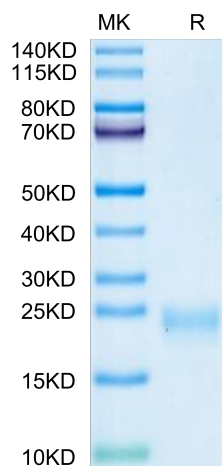
<b>Formulation</b>	Lyophilized from 0.22 $\mu\text{m}$ filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3-6 months after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

IL-5 is an important cytokine for priming and survival of mature eosinophils and for proliferation and maturation of their progenitors. IL-5(R $\alpha$ ) targeting will be increasingly used in diseases where eosinophils are the key immune effector cells such as eosinophilic asthma (EA), hypereosinophilic syndrome (HES), eosinophilic esophagitis (EE), and eosinophilic granulomatosis with polyangiitis (EGPA).

## Assay Data

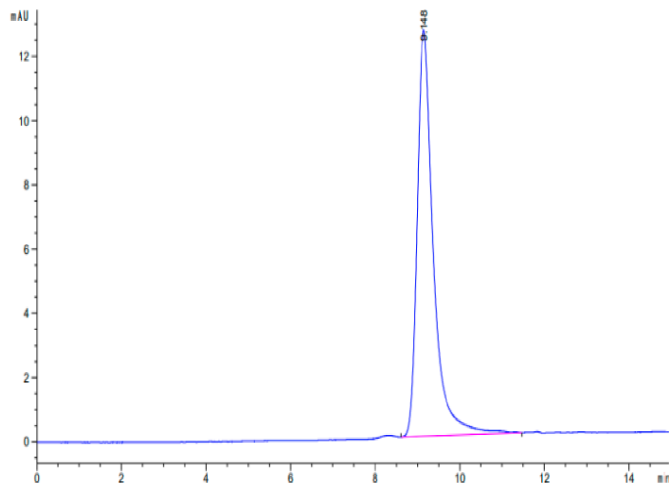
### Tris-Bis PAGE



Cynomolgus IL-5 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC

Assay Data

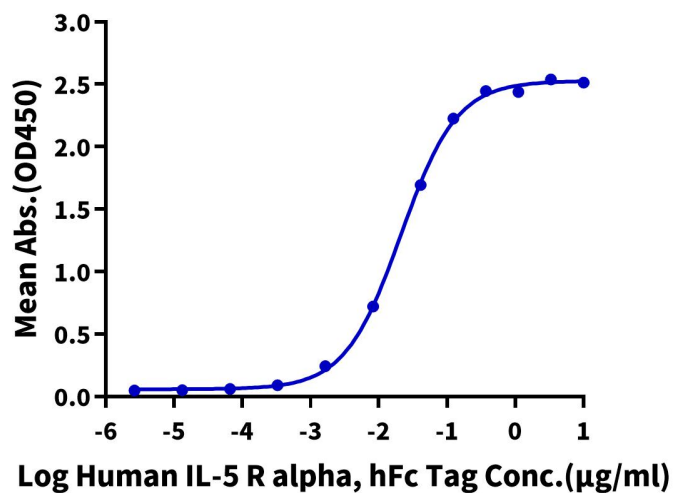


The purity of Cynomolgus IL-5 is greater than 95% as determined by SEC-HPLC.

ELISA Data

**Cynomolgus IL-5, His Tag ELISA**

0.1µg Cynomolgus IL-5, His Tag Per Well



Immobilized Cynomolgus IL-5, His Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Human IL-5 R alpha, hFc Tag with the EC50 of 21.0ng/ml determined by ELISA.