

Datasheet for ABIN7274952

**IL-5 Protein (AA 20-134) (His tag)****3** Images[Go to Product page](#)

## Overview

Quantity:	100 µg
Target:	IL-5 (IL5)
Protein Characteristics:	AA 20-134
Origin:	Cynomolgus
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This IL-5 protein is labelled with His tag.

## Product Details

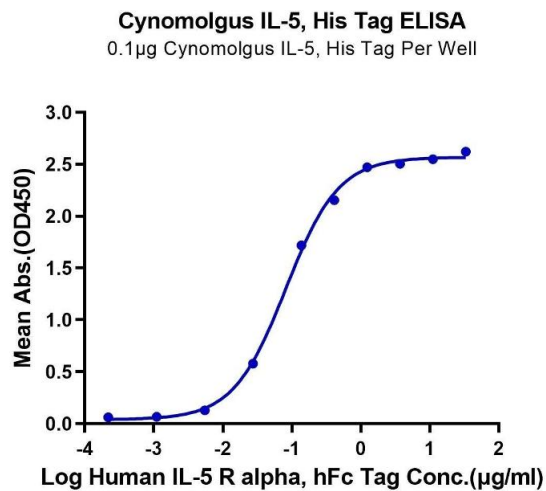
Purpose:	Cynomolgus IL-5 Protein
Sequence:	Ile20-Ser134
Characteristics:	Recombinant Cynomolgus IL-5 Protein is expressed from HEK293 with His tag at the N-Terminus. It contains Ile20-Ser134.
Purity:	> 95 % as determined by Tris-Bis PAGE, > 95 % as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	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 82.2ng/ml determined by ELISA. See testing image for detail.

## Target Details

Target:	IL-5 (IL5)
Alternative Name:	IL-5 ( <a href="#">IL5 Products</a> )
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).
Molecular Weight:	14.25 kDa. Due to glycosylation, the protein migrates to 20-25 kDa based on Tris-Bis PAGE result.
UniProt:	<a href="#">A0A2K5U1E7</a>
Pathways:	<a href="#">JAK-STAT Signaling</a> , <a href="#">Positive Regulation of Peptide Hormone Secretion</a> , <a href="#">Production of Molecular Mediator of Immune Response</a> , <a href="#">Feeding Behaviour</a>

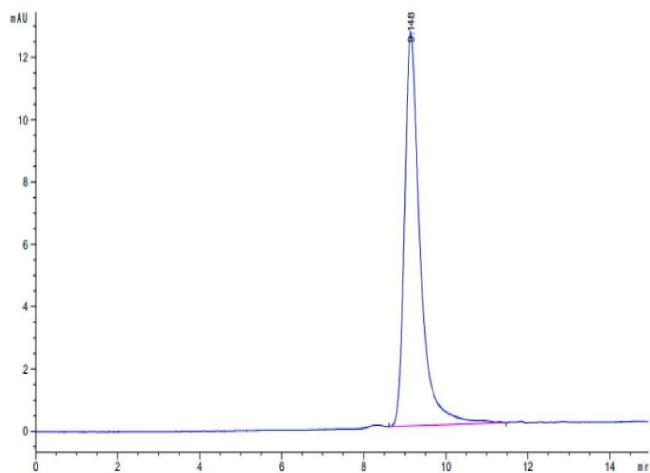
## Application Details

Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu$ g/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22 $\mu$ m filtered solution in PBS ( pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	-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.
Expiry Date:	12 months



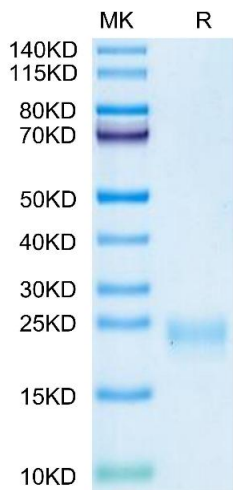
**ELISA**

**Image 1.** Immobilized Cynomolgus IL-5, His Tag at 1 µg/mL (100 µL/well) on the plate. Dose response curve for Human IL-5 R alpha, hFc Tag with the EC50 of 82.2 ng/mL determined by ELISA.



**Size-exclusion chromatography-High Pressure Liquid Chromatography**

**Image 2.** The purity of Cynomolgus IL-5 is greater than 95 % as determined by SEC-HPLC.



**SDS-PAGE**

**Image 3.** Cynomolgus IL-5 on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .