

# Biotinylated Human IL-5 Protein

Cat. No. IL5-HM401B

## Description

<b>Source</b>	Recombinant Biotinylated Human IL-5 Protein is expressed from HEK293 with His tag and Avi tag at the N-Terminus. It contains Ile20-Ser134.
<b>Accession</b>	P05113
<b>Molecular Weight</b>	The protein has a predicted MW of 16.1 kDa. Due to glycosylation, the protein migrates to 18-25 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

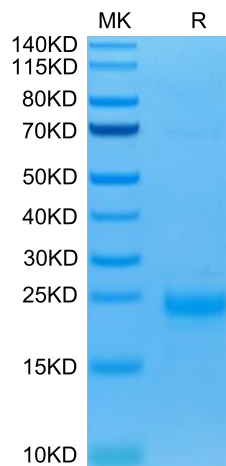
<b>Formulation</b>	Lyophilized from 0.22 $\mu\text{m}$ filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state 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



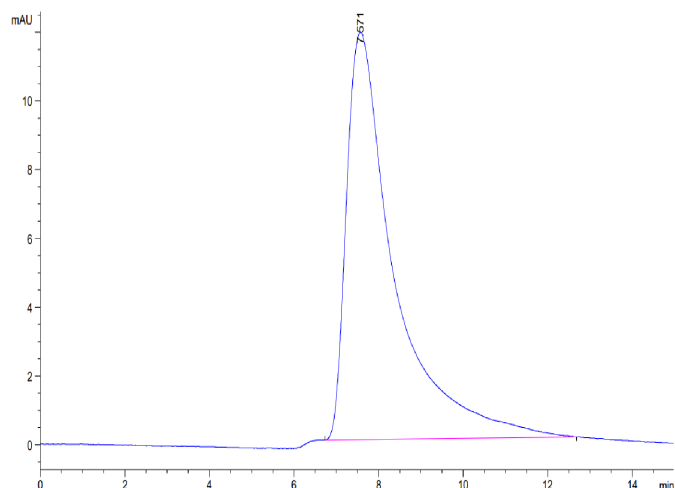
Biotinylated Human IL-5 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC

# Biotinylated Human IL-5 Protein

Cat. No. IL5-HM401B

## Assay Data

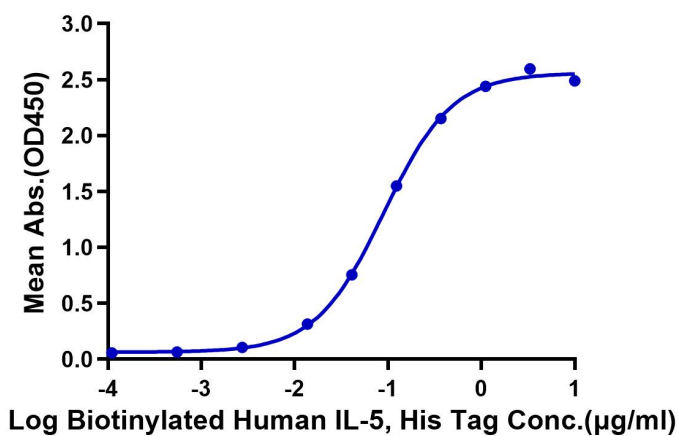


The purity of Biotinylated Human IL-5 is greater than 95% as determined by SEC-HPLC.

## ELISA Data

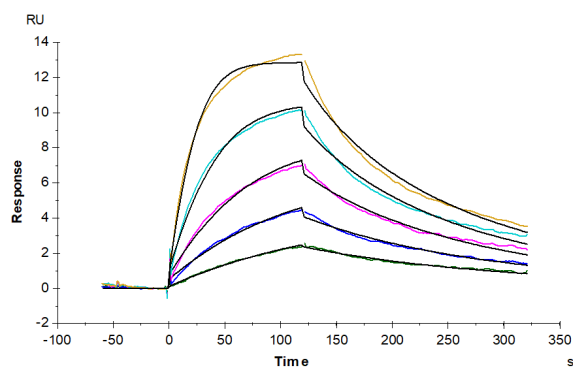
### Biotinylated Human IL-5, His Tag ELISA

0.2  $\mu\text{g}$  Human IL-5 R alpha, hFc Tag Per Well



Immobilized Human IL-5 R alpha, hFc Tag at 2  $\mu\text{g}/\text{ml}$  (100  $\mu\text{l}/\text{Well}$ ) on the plate. Dose response curve for Biotinylated Human IL-5, His Tag with the EC50 of 90.4 ng/ml determined by ELISA (QC Test).

## SPR Data



Human IL-5 R alpha, His Tag immobilized on CM5 Chip can bind Biotinylated Human IL-5, His-Avi Tag with an affinity constant of 7.57 nM as determined in SPR assay (Biacore T200).