

# 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 Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

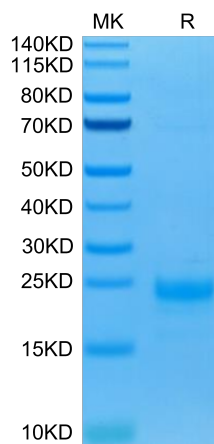
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 24 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

IL-5 is an important cytokine for priming and survival of mature eosinophils and for proliferation and maturation of their progenitors. IL-5(Rα) 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).

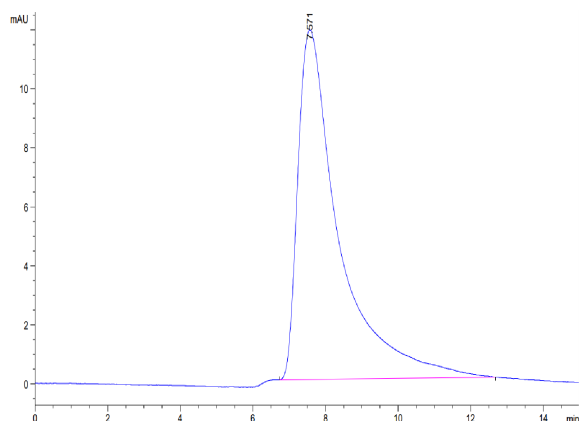
## Assay Data

### Bis-Tris PAGE



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

### SEC-HPLC



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

# Biotinylated Human IL-5 Protein

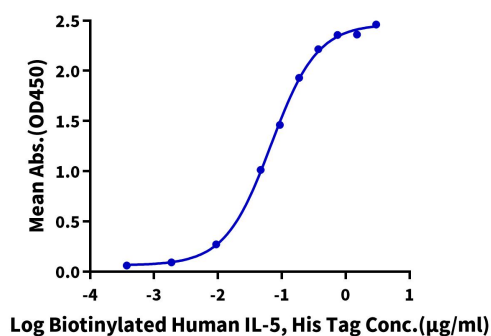
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## Assay Data

### ELISA Data

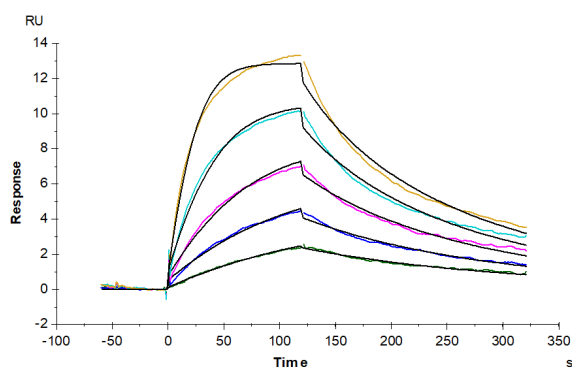
#### Biotinylated Human IL-5, His Tag ELISA

0.2µg Human IL-5 R alpha, hFc Tag Per Well



Immobilized Human IL-5 R alpha, hFc Tag at 2µg/ml (100µl/Well) on the plate. Dose response curve for Biotinylated Human IL-5, His Tag with the EC50 of 68.2ng/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).