

# Human IL-5 Protein, Ultra Low Endotoxin

Cat. No. IL5-HM101-UL

## Description

<b>Source</b>	Recombinant Human IL-5 Protein is expressed from HEK293 with His tag at the N-terminus. It contains Ile20-Ser134.
<b>Accession</b>	P05113
<b>Molecular Weight</b>	The protein has a predicted MW of 14.24 kDa. Due to glycosylation, the protein migrates to 20-35 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

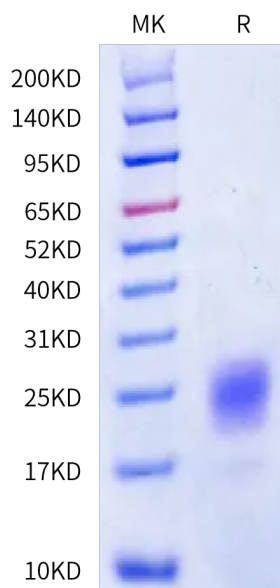
<b>Formulation</b>	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
<b>Storage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

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

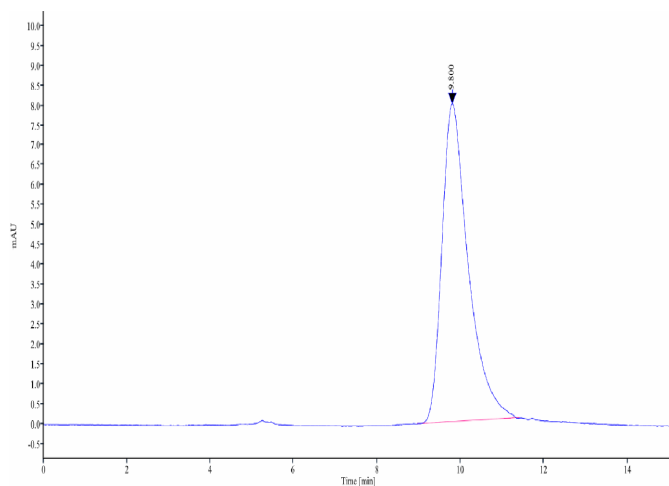
### Bis-Tris PAGE



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

### SEC-HPLC

Assay Data

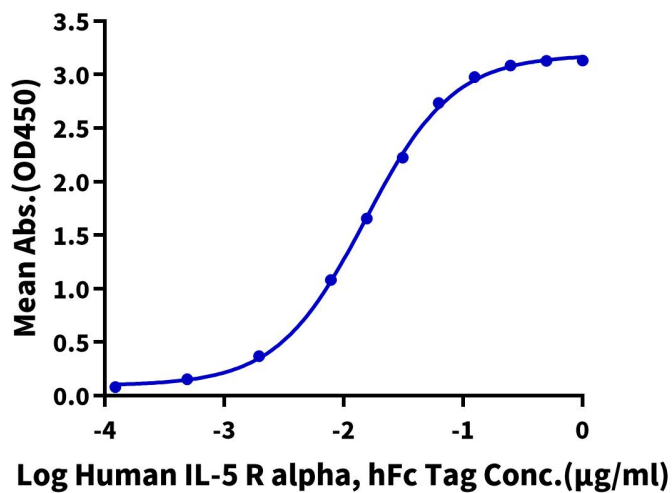


The purity of Human IL-5 is greater than 95% as determined by SEC-HPLC.

ELISA Data

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

0.1µg Human IL-5, His Tag Per Well



Immobilized Human 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 15.1ng/ml determined by ELISA.