

# Biotinylated Human IL-13Ra1 Protein

Cat. No. ILR-HM4R1B

## Description

<b>Source</b>	Recombinant Biotinylated Human IL-13Ra1 Protein is expressed from Expi293 with His tag and Avi tag at the C-terminal. It contains Ala27-Thr343.
<b>Accession</b>	P78552-1
<b>Molecular Weight</b>	The protein has a predicted MW of 39.5 kDa. Due to glycosylation, the protein migrates to 55-75 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

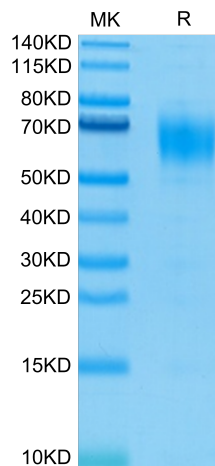
<b>Formulation</b>	Lyophilized from 0.22 $\mu\text{m}$ filtered solution in PBS (pH 7.4). Normally 5% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge tubes before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended (usually we use 1mg/ml solution for lyophilization). 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 avoid freeze-thaw cycles.

## Background

Two type 1 membrane proteins belonging to the hemopoietin receptor family have been cloned and shown to bind IL-13 with differing affinities. The lower affinity IL-13 binding protein, previously designated IL-13 R alpha, IL-13 R alpha ' or NR4, is now referred to as IL-13 R alpha 1. The high-affinity IL-13 binding protein, previously also designated IL-13 R or IL-13 R alpha ', is now referred to as IL-13 R alpha 2.

## Assay Data

### Tris-Bis PAGE



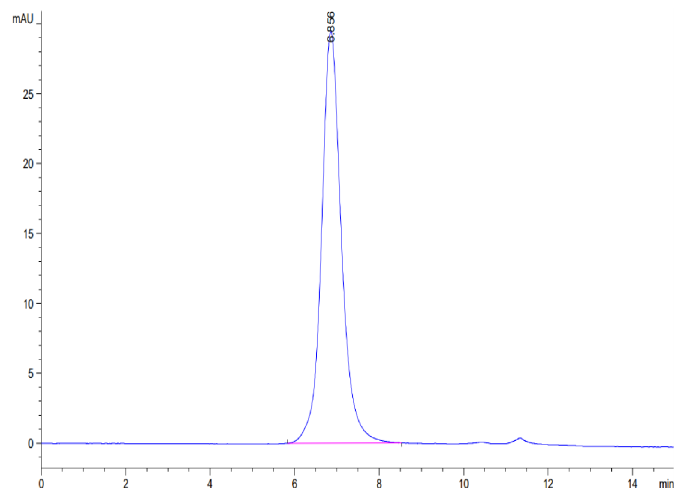
Biotinylated Human IL-13Ra1 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC

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## Assay Data

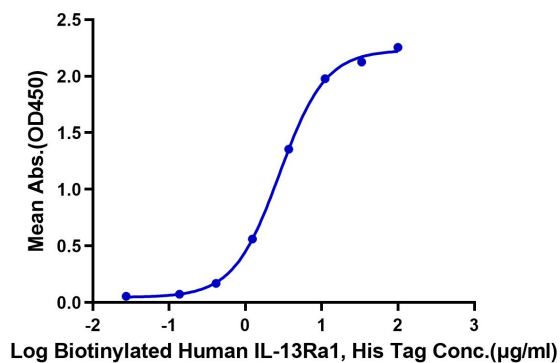


The purity of Biotinylated IL-13Ra1 is greater than 95% as determined by SEC-HPLC.

## ELISA Data

### Biotinylated Human IL-13Ra1, His Tag ELISA

0.2µg Human IL-13, hFc Tag Per Well



Immobilized Human IL-13, hFc Tag at 2µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Human IL-13Ra1, His Tag with the EC50 of 2.8µg/ml determined by ELISA.