

# Biotinylated Human IL-3 R alpha/CD123 Protein

Cat. No. IL3-HM1RAB

## Description

<b>Source</b>	Recombinant Biotinylated Human IL-3 R alpha/CD123 Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus. It contains Thr19-Arg305.
<b>Accession</b>	P26951-1
<b>Molecular Weight</b>	The protein has a predicted MW of 35.99 kDa. Due to glycosylation, the protein migrates to 55-65 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

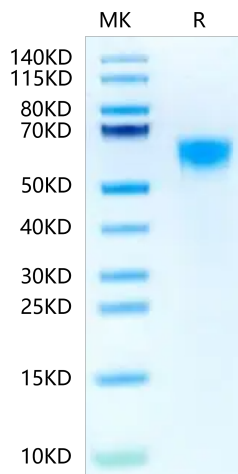
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein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

Interleukin-3 receptor subunit alpha, also known as IL-3 receptor subunit alpha, IL-3R-alpha, CD123, and IL3RA, is a single-pass type I membrane protein which belongs to the type I cytokine receptor family and Type 5 subfamily. The specific alpha subunit of the interleukin-3 receptor (IL-3Ralpha, CD123) is strongly expressed in various leukemic blasts and leukemic stem cells and seems to be an excellent target for the therapy of leukemias.

## Assay Data

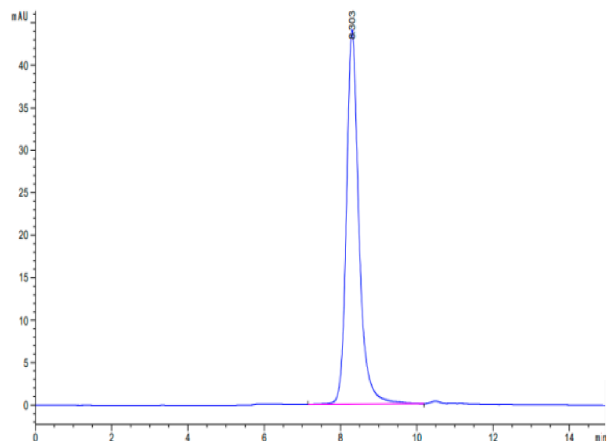
### Bis-Tris PAGE



Biotinylated Human IL-3 R alpha on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC

Assay Data



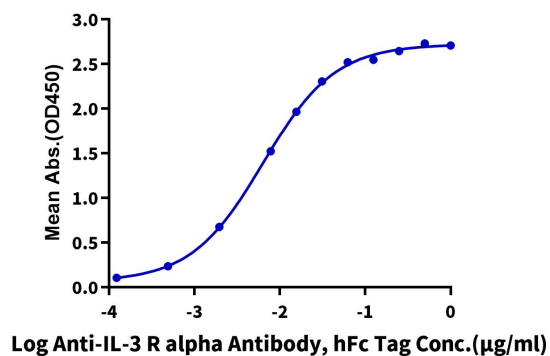
The purity of Biotinylated Human IL-3 R alpha is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

**Biotinylated Human IL-3 R alpha, His-Avi Tag ELISA**

0.1µg Biotinylated Human IL-3 R alpha, His-Avi Tag Per Well



Immobilized Biotinylated Human IL-3 R alpha, His-Avi Tag at 1µg/ml (100µl/Well) on streptavidin (5µg/ml) precoated plate. Dose response curve for Anti-IL-3 R alpha Antibody, hFc Tag with the EC50 of 6.4ng/ml determined by ELISA.