

# Human IL-4 R alpha/CD124 Protein

Cat. No. ILA-HM14R

## Description

|                         |  |
|-------------------------|--|
| <b>Source</b>           | Recombinant Human IL-4 R alpha/CD124 Protein is expressed from HEK293 with His tag at the C-terminus.<br>It contains Met26-His232. |
| <b>Accession</b>        | P24394-1   |
| <b>Molecular Weight</b> | The protein has a predicted MW of 24.7 kDa. Due to glycosylation, the protein migrates to 45-70 kDa based on Bis-Tris PAGE result. |
| <b>Endotoxin</b>        | Less than 1 EU per µg by the LAL method.   |
| <b>Purity</b>           | >95% as determined by Bis-Tris PAGE<br>>95% as determined by HPLC  |

## Formulation and Storage

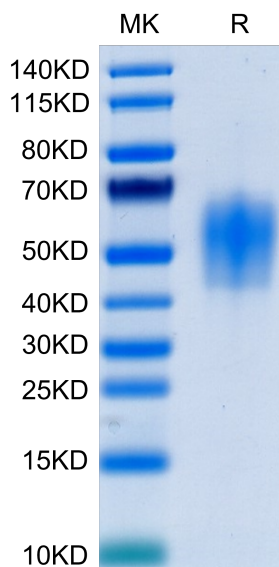
|                       |   |
|-----------------------|---|
| <b>Formulation</b>    | Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.   |
| <b>Reconstitution</b> | Centrifuge the tube before opening. Reconstituting to a concentration 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 4 Receptor alpha (IL-4 Ra), also known as CD124 and BSF receptor, is a widely expressed 140 kDa transmembrane glycoprotein in the class I cytokine receptor family. The effects of IL-4 are mediated after binding to high affinity receptor complexes present on hematopoietic as well as non-hematopoietic cells.

## Assay Data

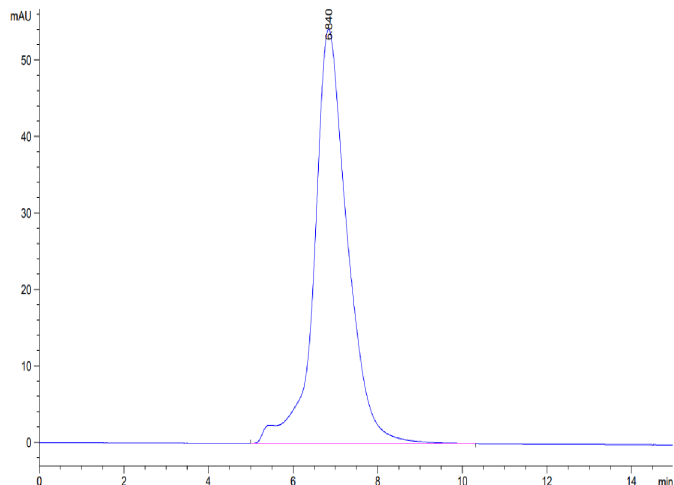
### Bis-Tris PAGE



Human IL-4 R alpha on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC

Assay Data

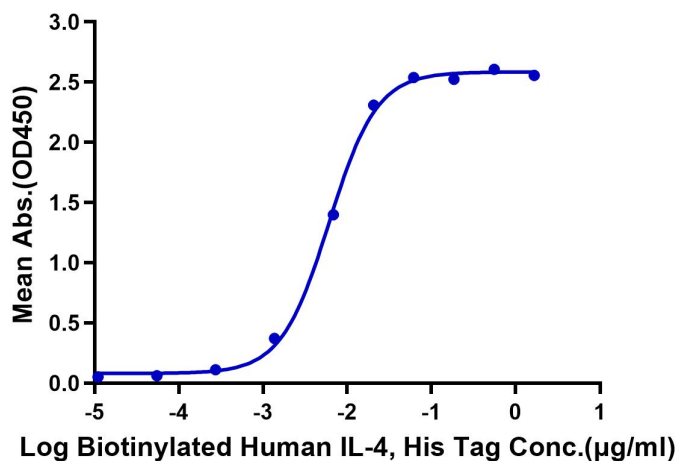


The purity of Human IL-4 R alpha is greater than 95% as determined by SEC-HPLC.

ELISA Data

Human IL-4 R alpha, His Tag ELISA

0.1 µg Human IL-4 R alpha, His Tag Per Well



Immobilized Human IL-4 R alpha, His Tag at 1 µg/ml (100 µl/Well). Dose response curve for Biotinylated Human IL-4, His Tag with the EC50 of 6.1 ng/ml determined by ELISA.