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## IL4 Receptor Protein (AA 24-232) (His tag)

3 Images



### Overview

Quantity:	100 μg
Target:	IL4 Receptor (IL4R)
Protein Characteristics:	AA 24-232
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This IL4 Receptor protein is labelled with His tag.

### **Product Details**

Purpose:	Human IL-4 R alpha/CD124 Protein
Sequence:	Gly24-His232
Characteristics:	Recombinant Human IL-4 R alpha/CD124 Protein is expressed from HEK293 with His tag at the C-Terminus.It contains Gly24-His232.
Purity:	> 95 % as determined by Tris-Bis PAGE,> 95 % as determined by HPLC
Sterility:	0.22 μm filtered
Endotoxin Level:	Less than 1EU per μg by the LAL method.
Biological Activity Comment:	Immobilized Human IL-4 R alpha, His Tag at 1µg/ml (100µl/Well). Dose response curve for Biotinylated Human IL-4, His Tag with the EC50 of 11.76ng/ml determined by ELISA. See testing image for detail.

## **Target Details**

Target:	IL4 Receptor (IL4R)
Alternative Name:	IL-4 R alpha (IL4R Products)
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.
Molecular Weight:	24.7 kDa. Due to glycosylation, the protein migrates to 45-70 kDa based on Tris-Bis PAGE result.
Pathways:	JAK-STAT Signaling, Positive Regulation of Immune Effector Process
Application Details	

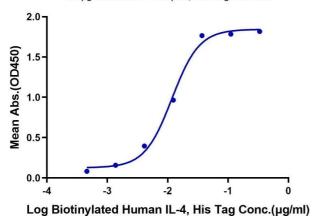
Restrictions: For Research Use only

## Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from $0.22\mu m$ filtered solution in PBS ( pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	-20 to -80°C for 12 months as supplied from date of receipt., -80°C for 3-6 months after reconstitution., 2-8°C for 2-7 days after reconstitution., Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Expiry Date:	12 months

#### Human IL-4 R alpha, His Tag ELISA

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

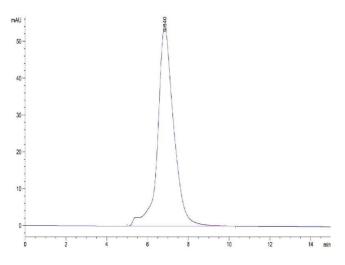


#### **ELISA**

**Image 1.** Immobilized Human IL-4 R alpha, His Tag at 1  $\mu$  g/mL (100  $\mu$ L/Well). Dose response curve for Biotinylated Human IL-4, His Tag with the EC50 of 11.76 ng/mL determined by ELISA.

## Size-exclusion chromatography-High Pressure Liquid Chromatography

**Image 2.** The purity of Human IL-4 R alpha is greater than 95 % as determined by SEC-HPLC.



## SDS-PAGE

 $\label{eq:limit} \textbf{Image 3.} \ \mbox{Human IL-4 R alpha on Tris-Bis PAGE under} \\ \ \mbox{reduced condition.} \ \mbox{The purity is greater than 95 \%} \ .$ 

