

Human IL-4 R alpha/CD124 Protein, Ultra Low Endotoxin

Cat. No. ILA-HM14R-UL

Description

Source	Recombinant Human IL-4 R alpha/CD124 Protein is expressed from HEK293 with His tag at the C-terminus. It contains Met26-His232.
Accession	P24394-1
Molecular Weight	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.
Endotoxin	Less than 0.01 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage

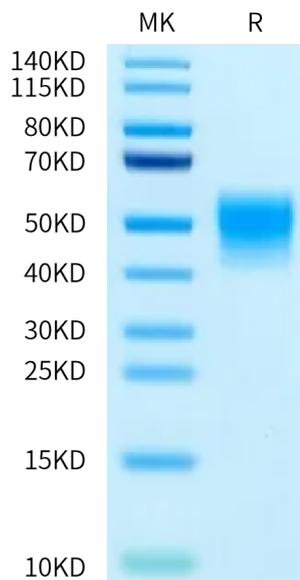
Formulation	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 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

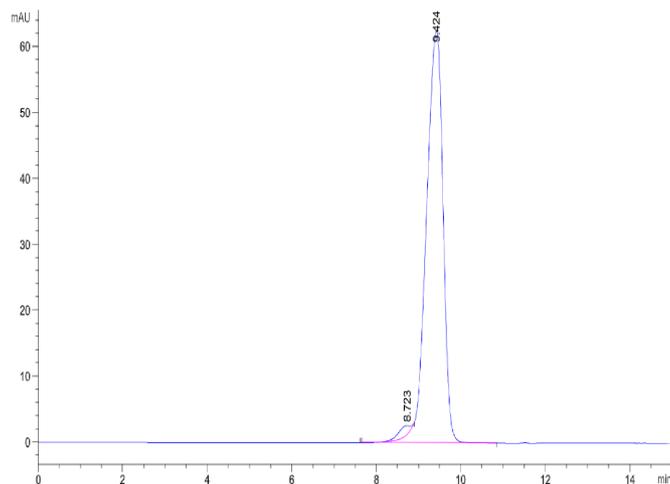
Bis-Tris PAGE



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

SEC-HPLC

Assay Data

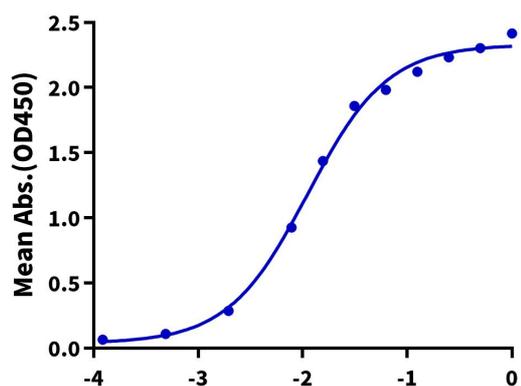


The purity of Human IL-4 R alpha is greater than 95% as determined by SEC-HPLC.

ELISA Data

Human IL-4 R alpha, His Tag ELISA

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

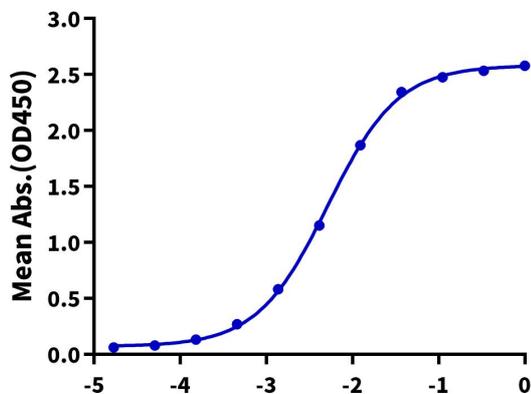


Immobilized Human IL-4 R alpha, His Tag at 1 µg/ml (100 µl/Well). Dose response curve for Biotinylated Human IL-4, His-Avi Tag (Cat. IL4-HM401B) with the EC50 of 11.2 ng/ml determined by ELISA (QC Test).

Log Biotinylated Human IL-4, His-Avi Tag Conc.(µg/ml)

Human IL-4 R alpha, His Tag ELISA

0.05µg Human IL-4 R alpha, His Tag Per Well

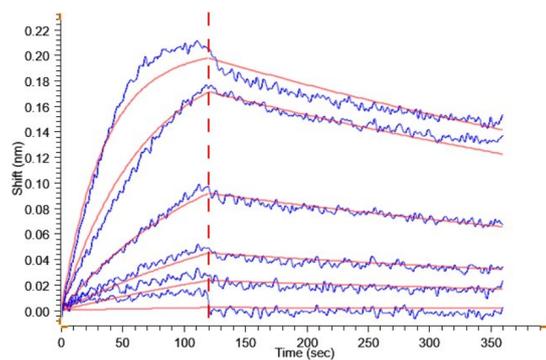


Immobilized Human IL-4 R alpha, His Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Anti-IL-4 R alpha Antibody, hFc Tag with the EC50 of 5.1ng/ml determined by ELISA.

Log Anti-IL-4 R alpha Antibody, hFc Tag Conc.(µg/ml)

BLI Data

Assay Data



Loaded Human IL-4 R alpha, His Tag on Anti-His-Biosensor can bind Human IL-4, No Tag (Cat. IL4-HM001) with an affinity constant of 0.65 nM as determined in BLI assay .