

Human IL-3 R alpha/CD123 Protein

Cat. No. IL3-HM2RA

Description

Source	Recombinant Human IL-3 R alpha/CD123 Protein is expressed from HEK293 with hFc tag at the C-Terminus. It contains Thr19-Arg305.
Accession	P26951-1
Molecular Weight	The protein has a predicted MW of 59.7 kDa. Due to glycosylation, the protein migrates to 70-80 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 90% as determined by Tris-Bis PAGE > 90% as determined by HPLC

Formulation and Storage

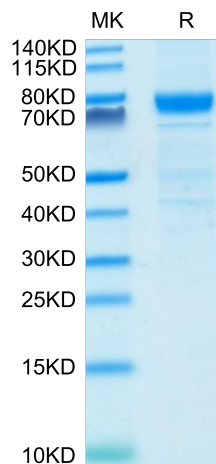
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-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 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

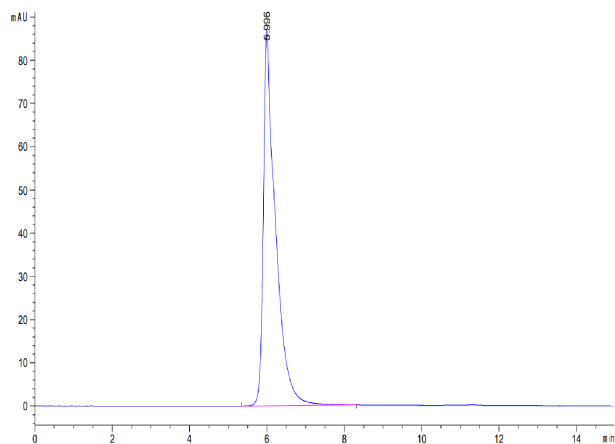
Tris-Bis PAGE



Human IL-3 R alpha on Tris-Bis PAGE under reduced condition. The purity is greater than 90%.

SEC-HPLC

Assay Data



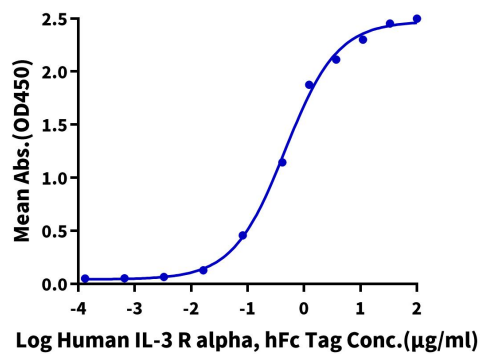
The purity of Human IL-3 R alpha is greater than 90% as determined by SEC-HPLC.

Assay Data

ELISA Data

Human IL-3 R alpha, hFc Tag ELISA

0.5µg Human IL-3, His Tag Per Well



Immobilized Human IL-3, His Tag at 5µg/ml (100µl/well) on the plate. Dose response curve for Human IL-3 R alpha, hFc Tag with the EC50 of 0.46µg/ml determined by ELISA.