

Human IL-3 R alpha/CD123 Protein



Cat. No. IL3-HM2RA

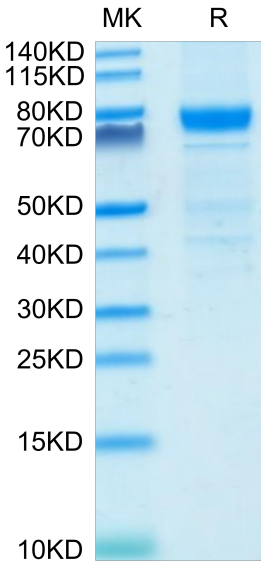
Description	
Source	Recombinant Human IL-3 R alpha/CD123 Protein is expressed from HEK293 with hFc (IgG1) tag at the C-Terminus. It contains Thr19-Arg305.
Accession	P26951-1
Molecular Weight	The protein has a predicted MW of 59.7 kDa. Due to glycosylation, the protein migrates to 70-80 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per µg by the LAL method.
Purity	> 90% as determined by Bis-Tris PAGE > 90% as determined by HPLC

Formulation and Storage	
Formulation	Lyophilized from 0.22µm 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-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

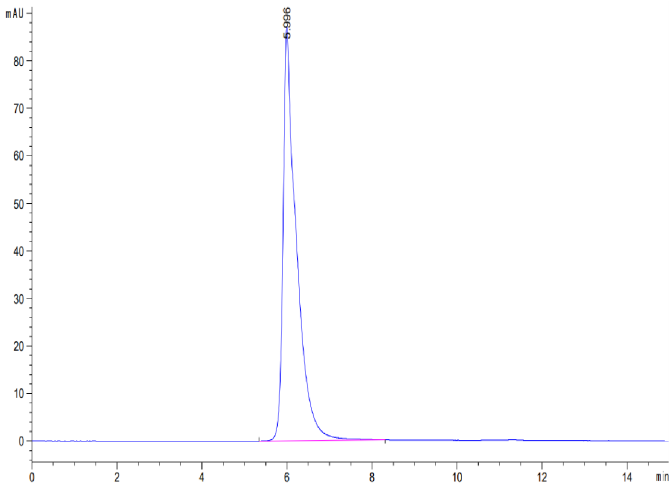
Bis-Tris PAGE



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

SEC-HPLC

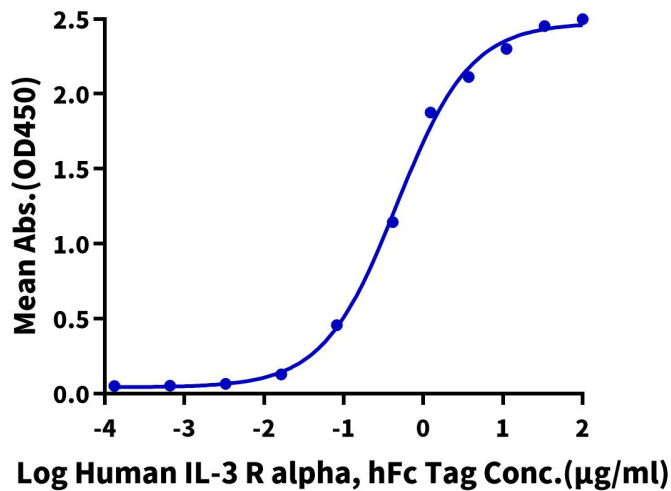
Assay Data



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

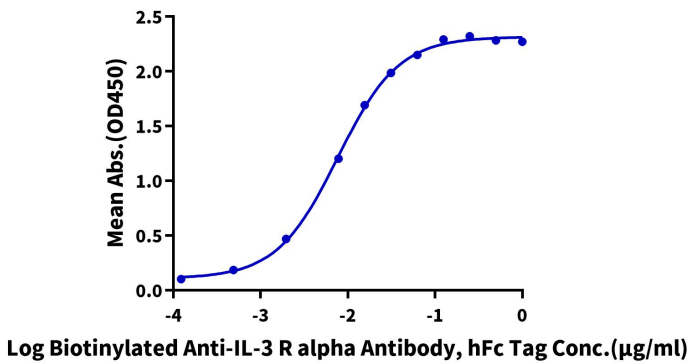
ELISA Data

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.

Human IL-3 R alpha, hFc Tag ELISA
0.05µg Human IL-3 R alpha, hFc Tag Per Well



Immobilized Human IL-3 R alpha, hFc Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Anti-IL-3 R alpha Antibody, hFc Tag with the EC50 of 7.6ng/ml determined by ELISA.