Human IL-3 R alpha/CD123 Protein

Cat. No. IL3-HM1RA



Description	
Source	Recombinant Human IL-3 R alpha/CD123 Protein is expressed from HEK293 with His tag at the C-Terminus.
	It contains Thr19-Arg305.
Accession	P26951-1
Molecular Weight	The protein has a predicted MW of 33.9 kDa. Due to glycosylation, the protein migrates to 60-70 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

Formulation and Storage

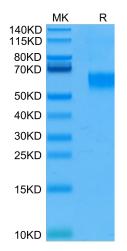
Formulation	Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μ g/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 24 months as supplied from date of receipt80°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.

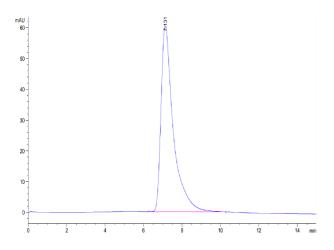
Assay Data

Bis-Tris PAGE



Human IL-3 R alpha on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



The purity of Human IL-3 R alpha is greater than 95% as determined by SEC-HPLC.

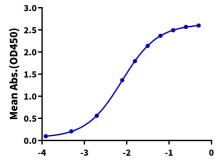
KAGTUS

Assay Data

ELISA Data

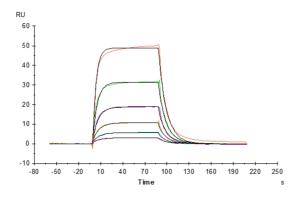
Human IL-3 R alpha, His Tag ELISA

0.1μg Human IL-3 R alpha, His Tag Per Well



Log Anti-IL-3 R alpha Antibody, hFc Tag Conc.(μg/ml)

SPR Data



Immobilized Human IL-3 R alpha, His Tag at $1\mu g/ml$ (100 $\mu l/Well$) on the plate. Dose response curve for Anti-IL-3 R alpha Antibody, hFc Tag with the EC50 of 7.7ng/ml determined by ELISA (QC Test).

Human IL-3, hFc Tag captured on CM5 Chip via Protein A can bind Human IL-3 R alpha, His Tag with an affinity constant of 0.276 μ M as determined in SPR assay (Biacore T200).