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Datasheet for ABIN7274938

IL3RA Protein (AA 18-302) (His tag)

3 Images

Overview

Quantity:	100 µg
Target:	IL3RA
Protein Characteristics:	AA 18-302
Origin:	Cynomolgus
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This IL3RA protein is labelled with His tag.

Product Details

Purpose:	Cynomolgus IL-3 R alpha/CD123 Protein
Sequence:	Arg18-Arg302
Characteristics:	Recombinant Cynomolgus IL-3 R alpha/CD123 Protein is expressed from HEK293 with His tag at the C-Terminus.It contains Arg18-Arg302.
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:	The affinity constant of 48.13 nM as determined in SPR assay (Biacore T200). See testing image for detail.

Target Details

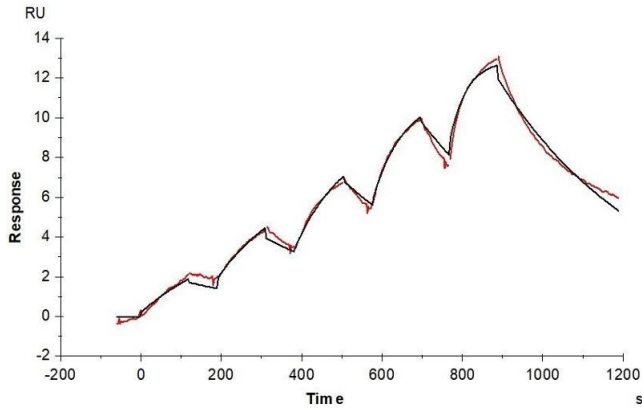
Target:	IL3RA
Alternative Name:	IL-3 R alpha (IL3RA Products)
Background:	Interleukin-3 receptor subunit alpha, also known as IL-3 receptor subunit alpha, IL-3R-alpha, CD123, and IL3RA, is a single-pass type I membrane protein which belongs to the type I cytokine receptor family and Type 5 subfamily. 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.
Molecular Weight:	33.9 kDa. Due to glycosylation, the protein migrates to 50-70 kDa based on Tris-Bis PAGE result.
Pathways:	JAK-STAT Signaling

Application Details

Restrictions:	For Research Use only
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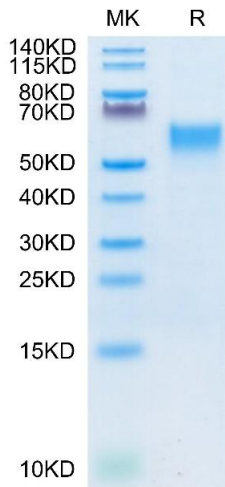
Handling

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 0.22µm 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



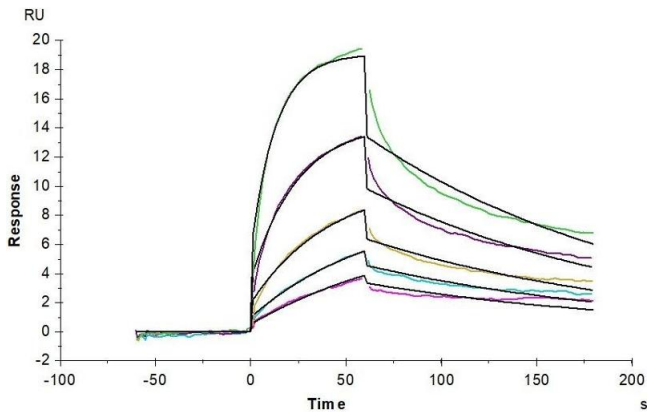
Surface Plasmon Resonance

Image 1. Cynomolgus IL-3 R alpha, His Tag immobilized on CM5 Chip can bind Cynomolgus IL-3, His Tag with an affinity constant of 1.30 nM as determined in SPR assay (Biacore T200).



SDS-PAGE

Image 2. Cynomolgus IL-3 R alpha/CD123 on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .



Surface Plasmon Resonance

Image 3. Cynomolgus IL-3 R alpha, His Tag captured on CM5 Chip via anti-his antibody can bind Human IL-3, hFc Tag with an affinity constant of 48.13 nM as determined in SPR assay (Biacore T200).