

Datasheet for ABIN7275010

**IL13 Receptor alpha 1 Protein (AA 25-341) (His tag)****3** Images[Go to Product page](#)

## Overview

Quantity:	100 µg
Target:	IL13 Receptor alpha 1 (IL13RA1)
Protein Characteristics:	AA 25-341
Origin:	Cynomolgus
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This IL13 Receptor alpha 1 protein is labelled with His tag.

## Product Details

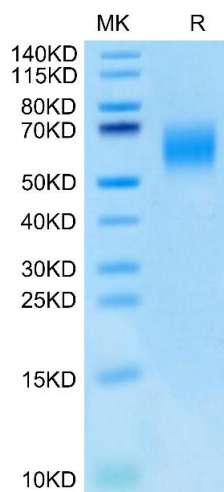
Purpose:	Cynomolgus IL-13Ra1 Protein
Sequence:	Ala25-Thr341
Characteristics:	Recombinant Cynomolgus IL-13Ra1 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Ala25-Thr341.
Purity:	> 95 % as determined by Tris-Bis PAGE, > 95 % as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	The affinity constant of 21.16 nM as determined in SPR assay (Biacore T200). See testing image for detail.

## Target Details

Target:	IL13 Receptor alpha 1 (IL13RA1)
Alternative Name:	IL-13Ra1 ( <a href="#">IL13RA1 Products</a> )
Background:	Two type 1 membrane proteins belonging to the hemopoietin receptor family have been cloned and shown to bind IL-13 with differing affinities. The lower affinity IL-13 binding protein, previously designated IL-13 R alpha, IL-13 R alpha ' or NR4, is now referred to as IL-13 R alpha 1. The high-affinity IL-13 binding protein, previously also designated IL-13 R or IL-13 R alpha ', is now referred to as IL-13 R alpha 2.
Molecular Weight:	37.59 kDa. Due to glycosylation, the protein migrates to 55-70 kDa based on Tris-Bis PAGE result.
NCBI Accession:	<a href="#">XP_005594500</a>
Pathways:	<a href="#">JAK-STAT Signaling</a> , <a href="#">Positive Regulation of Immune Effector Process</a> , <a href="#">Production of Molecular Mediator of Immune Response</a>

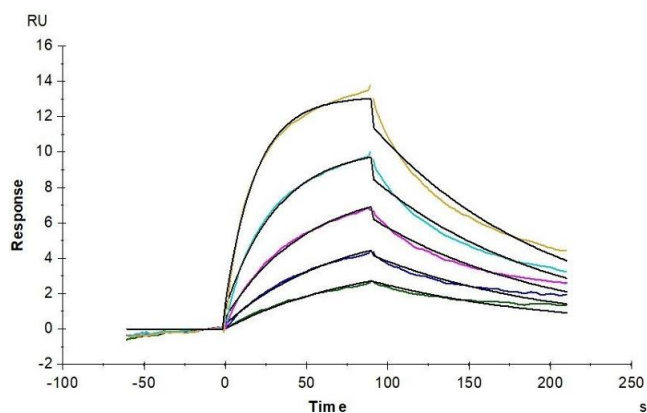
## Application Details

Restrictions:	For Research Use only
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



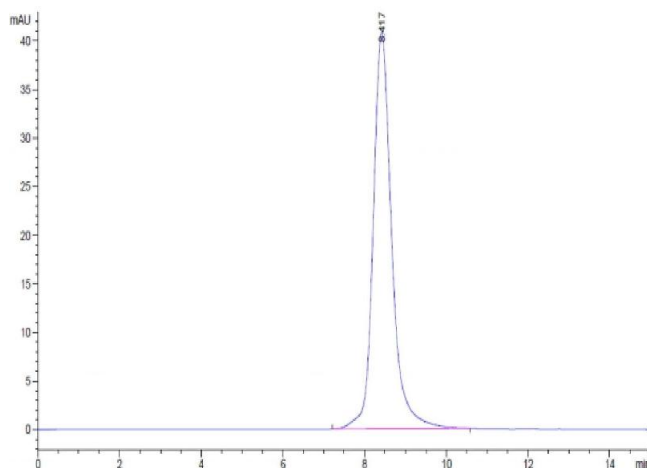
### SDS-PAGE

**Image 1.** Cynomolgus IL-13Ra1 on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .



### Surface Plasmon Resonance

**Image 2.** Cynomolgus IL-13Ra1,His Tag immobilized on CM5 Chip can bind Cynomolgus IL-13, His Tag with an affinity constant of 21.16 nM as determined in SPR assay (Biacore T200).



### Size-exclusion chromatography-High Pressure Liquid Chromatography

**Image 3.** The purity of Cynomolgus IL-13Ra1 is greater than 95 % as determined by SEC-HPLC.