

Datasheet for ABIN7275027

IL13 Receptor alpha 1 Protein (AA 27-343) (Fc Tag)**4** Images[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	IL13 Receptor alpha 1 (IL13RA1)
Protein Characteristics:	AA 27-343
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This IL13 Receptor alpha 1 protein is labelled with Fc Tag.

Product Details

Purpose:	Human IL-13Ra1 Protein
Sequence:	Ala27-Thr343
Characteristics:	Recombinant Human IL-13Ra1 Protein is expressed from HEK293 with hFc tag at the C-Terminus. It contains Ala27-Thr343.
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:	Immobilized Human IL-13 at 1µg/ml (100µl/Well). Dose response curve for Human IL-13Ra1, hFc Tag with the EC50 of 2.7µg/ml determined by ELISA. The affinity constant of 53.1nM as determined in SPR assay (Biacore T200). See testing image for detail.

Target Details

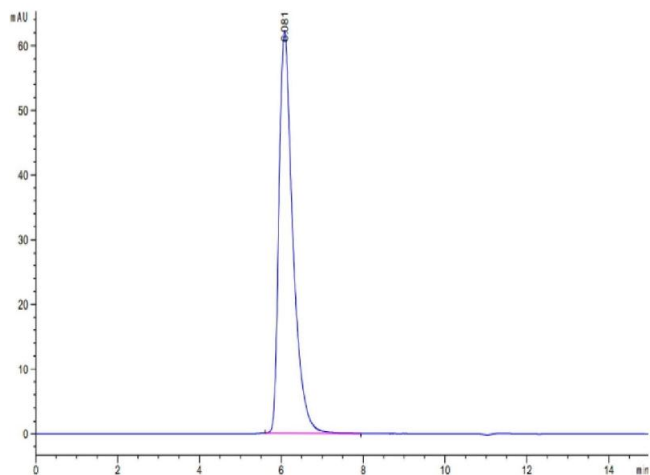
Target:	IL13 Receptor alpha 1 (IL13RA1)
Alternative Name:	IL-13Ra1 (IL13RA1 Products)
Background:	Two type 1 membrane proteins belonging to the hemopoietin receptor family have been cloned and shown to bind IL-13 with differing affinities. The lower affinity IL-13 binding protein, previously designated 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:	63.4 kDa. Due to glycosylation, the protein migrates to 78-90 kDa based on Tris-Bis PAGE result.
UniProt:	P78552
Pathways:	JAK-STAT Signaling , Positive Regulation of Immune Effector Process , Production of Molecular Mediator of Immune Response

Application Details

Restrictions:	For Research Use only
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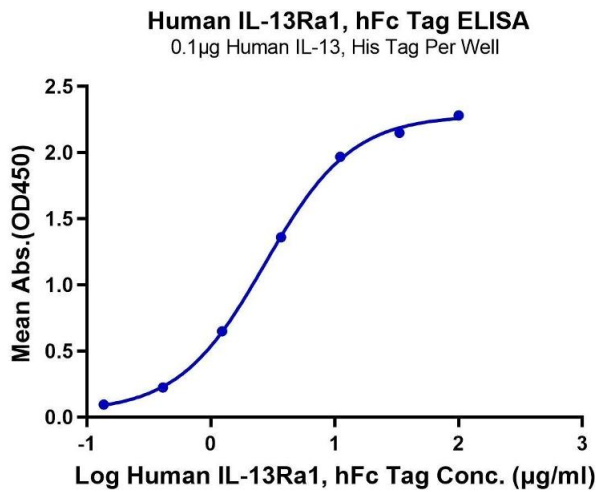
Handling

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



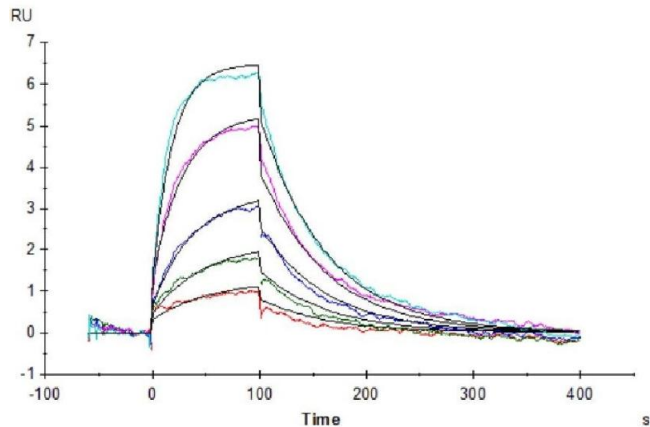
Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 1. The purity of Human IL-13Ra1 is greater than 95 % as determined by SEC-HPLC.



ELISA

Image 2. Immobilized Human IL-13 at 1 µg/mL (100 µL/Well). Dose response curve for Human IL-13Ra1, hFc Tag with the EC50 of 2.7 µg/mL determined by ELISA.



Surface Plasmon Resonance

Image 3. Human IL-13Ra1, hFc Tag captured on Protein A chip, can bind Human IL-13, His Tag with an affinity constant of 53.1nM as determined in a SPR assay (Biacore T200).

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN7275027.