

Datasheet for ABIN7274892

IL-13 Protein (AA 21-132) (Fc Tag)**4** Images[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	IL-13 (IL13)
Protein Characteristics:	AA 21-132
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This IL-13 protein is labelled with Fc Tag.

Product Details

Purpose:	Human IL-13 Protein
Sequence:	Gly21-Asn132
Characteristics:	Recombinant Human IL-13 Protein is expressed from HEK293 with hFc tag at the N-Terminus. It contains Gly21-Asn132.
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, hFc Tag at 2µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Human IL-13Ra1, His Tag with the EC50 of 2.8µg/ml determined by ELISA. The affinity constant of 0.399 µM as determined in SPR assay (Biacore T200). See testing image for detail.

Target Details

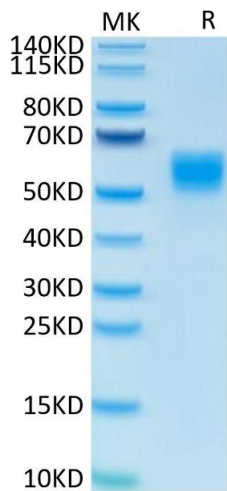
Target:	IL-13 (IL13)
Alternative Name:	IL-13 (IL13 Products)
Background:	Interleukin-13 (IL-13) is a monomeric 17 kDa immunoregulatory cytokine that plays a key role in the pathogenesis of allergy, cancer, and tissue fibrosis. It is secreted by several helper T cell subsets, NK cells, mast cells, eosinophils, basophils, and visceral smooth muscle cells. Inhibits inflammatory cytokine production. Synergizes with IL2 in regulating interferon-gamma synthesis. May be critical in regulating inflammatory and immune responses. Positively regulates IL31RA expression in macrophages (By similarity).
Molecular Weight:	39.6 kDa. Due to glycosylation, the protein migrates to 50-70 kDa based on Tris-Bis PAGE result.
Pathways:	JAK-STAT Signaling , Positive Regulation of Immune Effector Process , Production of Molecular Mediator of Immune Response , Proton Transport

Application Details

Restrictions:	For Research Use only
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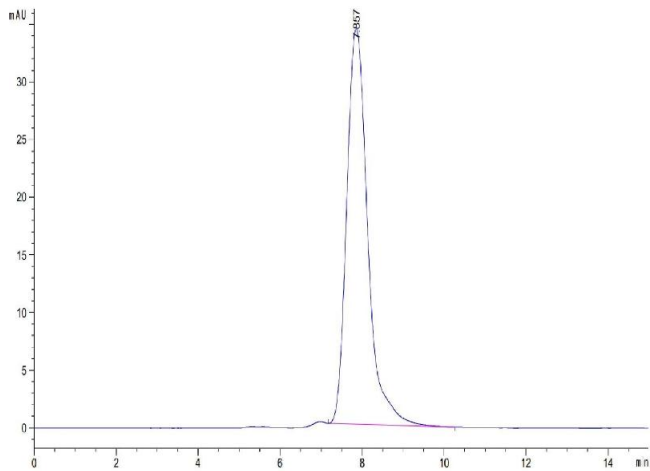
Handling

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



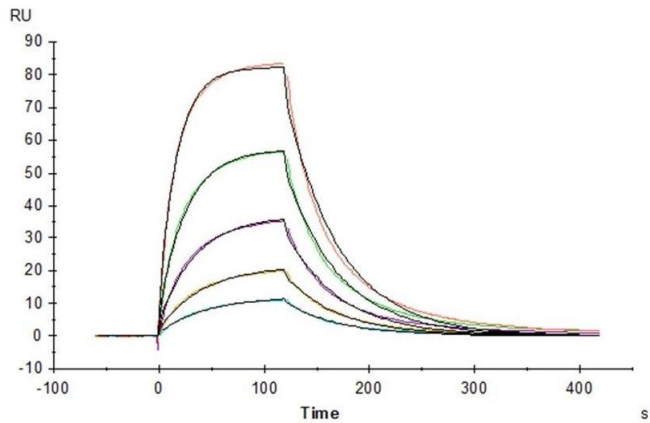
SDS-PAGE

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



Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 2. The purity of Human IL-13 is greater than 95 % as determined by SEC-HPLC.



Surface Plasmon Resonance

Image 3. Human IL-13, hFc Tag captured on CM5 Chip via Protein A can bind Human IL-13Ra1, His Tag with an affinity constant of 0.399 μ M as determined in SPR assay (Biacore T200).

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN7274892.