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Datasheet for ABIN7274900
IL-13 Protein (His-Avi Tag)

6 Images

Overview

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

Product Details

Sequence:	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, His Tag 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 0.7µM 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:	IL13, IL-13, interleukin 13, NC30, P600, ALRH, BHR1, MGC116786, MGC116788, MGC116789, Interleukin-13 (IL-13) is a monomeric 17 kDa immunoregulatory cytokine that

Target Details

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: 15.3 kDa. Due to glycosylation, the protein migrates to 15 kDa and 25-45 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

Handling

Format: Lyophilized

Reconstitution: Centrifuge tubes before opening. Reconstituting to a concentration more than 100 µg/mL is recommended (usually we use 1 mg/mL solution for lyophilization). Dissolve the lyophilized protein in distilled water.

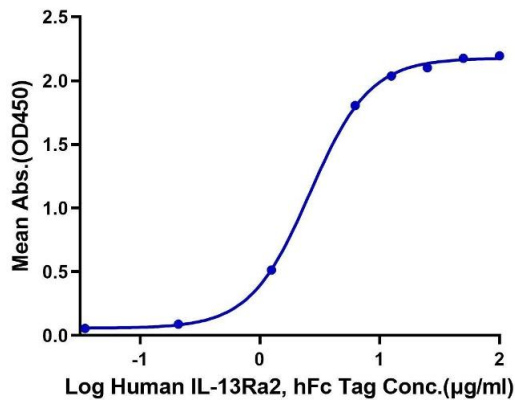
Buffer: Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 5 % trehalose is added as protectant before lyophilization.

Storage: 4 °C, -80 °C

Storage Comment: Reconstituted protein stable at -80°C for 12 months, 4°C for 1 week. Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

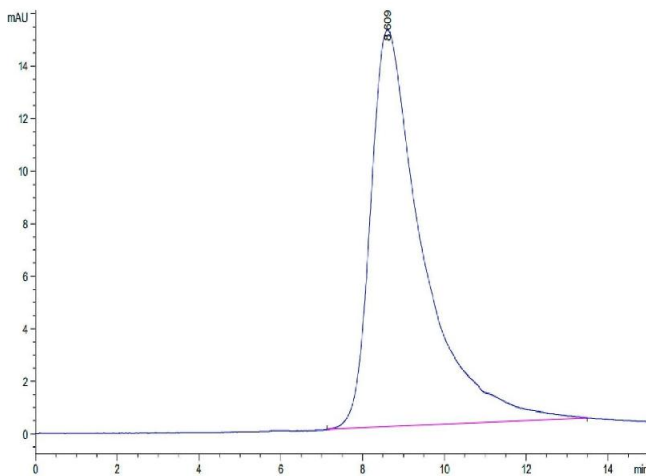
Expiry Date: 12 months

Human IL-13, His Tag ELISA
0.5µg Human IL-13, His Tag Per Well



ELISA

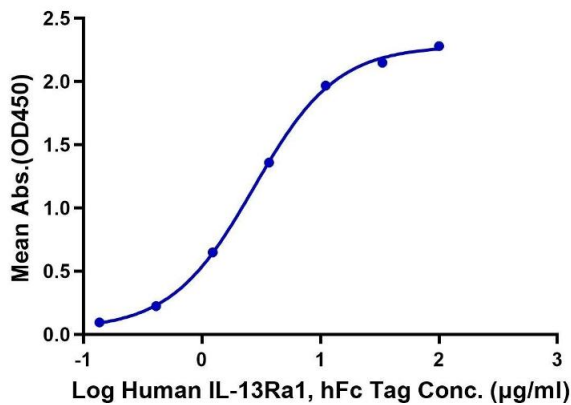
Image 1. Immobilized Human IL-13, His Tag at 5 µg/mL (100 µL/well) on the plate. Dose response curve for Human IL-13Ra2, hFc Tag with the EC50 of 2.6 µg/mL determined by ELISA.



Size-exclusion chromatography-High Pressure Liquid Chromatography

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

Human IL-13, His Tag ELISA
0.1µg Human IL-13, His Tag Per Well



ELISA

Image 3. Immobilized Human IL-13, His Tag 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.

Please check the [product details page](#) for more images. Overall 6 images are available for ABIN7274900.