

Datasheet for ABIN7274949
IL-4 Protein (AA 25-153)



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3 Images

Overview

Quantity:	100 µg
Target:	IL-4 (IL4)
Protein Characteristics:	AA 25-153
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant

Product Details

Purpose:	Human IL-4 Protein
Sequence:	His25-Ser153
Characteristics:	Recombinant Human IL-4 Protein is expressed from HEK293 without tag. It contains His25-Ser153.
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-4, No Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Human IL-4 R alpha, hFc Tag with the EC50 of 9.8ng/ml determined by ELISA. See testing image for detail.

Target Details

Target:	IL-4 (IL4)
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Target Details

Alternative Name: IL-4 ([IL4 Products](#))

Background: Interleukin-4, also known as IL4, is a secreted protein which belongs to the IL-4 / IL-13 family. Interleukin-4 / IL4 has many biological roles, including the stimulation of activated B-cell and T-cell proliferation. In the presence of IL-4 and IL-13, cytokines that are produced in a Th-2 type response, particularly during allergy and parasitic infections, macrophages become differentially activated, And this cytokine is a ligand for interleukin 4 receptor.

Molecular Weight: 17.1 kDa. Due to glycosylation, the protein migrates to 23-25 kDa based on Tris-Bis PAGE result.

Pathways: [JAK-STAT Signaling](#), [Regulation of Leukocyte Mediated Immunity](#), [Positive Regulation of Immune Effector Process](#), [Production of Molecular Mediator of Immune Response](#), [Proton Transport](#), [Activated T Cell Proliferation](#)

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.

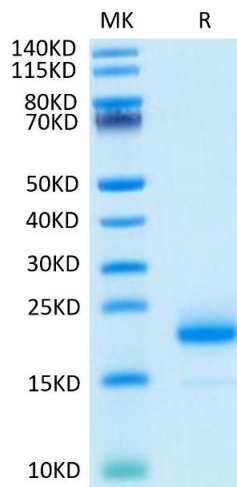
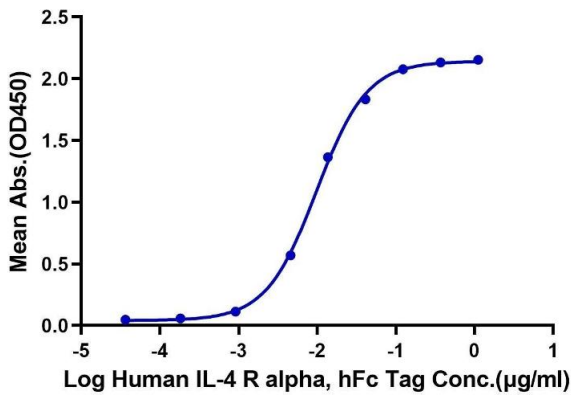
Buffer: Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization.

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

Human IL-4, No Tag ELISA
0.1µg Human IL-4, No Tag Per Well



ELISA

Image 1. Immobilized Human IL-4, No Tag at 1 µg/mL (100 µL/well) on the plate. Dose response curve for Human IL-4 R alpha, hFc Tag with the EC50 of 9.8 ng/mL determined by ELISA.

SDS-PAGE

Image 2. Human IL-4 on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .

Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 3. The purity of Human IL-4 is greater than 95 % as determined by SEC-HPLC.

