

Datasheet for ABIN7274950
IL-4 Protein (His-Avi Tag)

2 Images

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Overview

Quantity:	100 µg
Target:	IL-4 (IL4)
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This IL-4 protein is labelled with His-Avi Tag.

Product Details

Sequence:	His25-Ser153
Purity:	> 95% as determined by Tris-Bis PAGE
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	Immobilized Human IL-4 at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Human IL-4 R alpha, hFc Tag with the EC50 of 6.2ng/ml determined by ELISA. See testing image for detail.

Target Details

Target:	IL-4 (IL4)
Alternative Name:	IL-4 (IL4 Products)
Background:	IL4, IL-4, interleukin 4, MGC79402, pitrakinra, B cell growth factor 1, BCDF, BCGF1, BCGF-1, binetrakin, BSF1, BSF-1, BSF-1, Interleukin-4, also known as IL4, is a secreted protein which

Target Details

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

UniProt: [P05112](#)

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

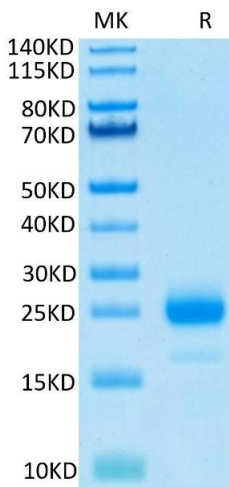
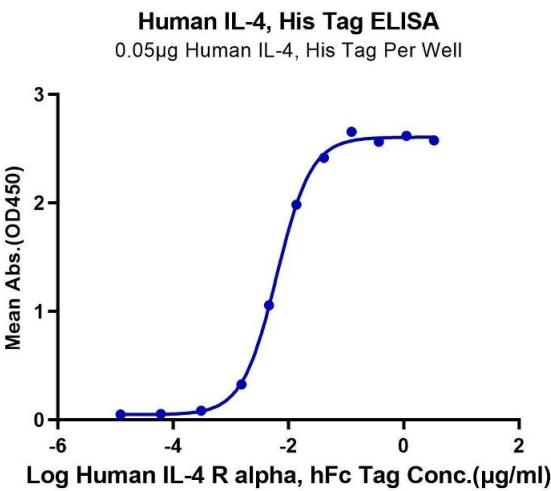
Reconstitution: Centrifuge tubes before opening. Reconstituting to a concentration more than 100 µg/mL is recommended (usually we use 1 mg/mL solution for lyophilization). Dissolve the lyophilized protein in distilled water.

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



ELISA

Image 1. Immobilized Human IL-4 at 0.5 µg/mL (100 µL/well) on the plate. Dose response curve for Human IL-4 R alpha, hFc Tag with the EC50 of 6.2 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 % .