

Datasheet for ABIN7274884
IL-10 Protein (AA 19-178)

5 Images

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Overview

Quantity:	100 µg
Target:	IL-10 (IL10)
Protein Characteristics:	AA 19-178
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant

Product Details

Purpose:	Human IL-10 Protein
Sequence:	Ser19-Asn178
Characteristics:	Recombinant Human IL-10 Protein is expressed from HEK293 without tag. It contains Ser19-Asn178.
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-10, No Tag at 2µg/ml (100µl/well) on the plate. Dose response curve for Human IL-10 R alpha, His Tag with the EC50 of 47.4ng/ml determined by ELISA. The affinity constant of 0.255 nM as determined in SPR assay (Biacore T200). See testing image for detail.

Target Details

Target:	IL-10 (IL10)
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Target Details

Alternative Name:	IL-10 (IL10 Products)
Background:	Interleukin 10 (IL10) is a key anti-inflammatory cytokine that can inhibit proinflammatory responses of both innate and adaptive immune cells. An association between IL10 and intestinal mucosal homeostasis became clear with the discovery that IL10 and IL10 receptor (IL10R)-deficient mice develop spontaneous intestinal inflammation. Similarly, patients with deleterious mutations in IL10, IL10RA, or IL10RB present with severe enterocolitis within the first months of life.
Molecular Weight:	18.8 kDa same as Tris-Bis PAGE result.
UniProt:	P22301
Pathways:	Cellular Response to Molecule of Bacterial Origin , Regulation of Leukocyte Mediated Immunity , Production of Molecular Mediator of Immune Response , Maintenance of Protein Location , Cancer Immune Checkpoints

Application Details

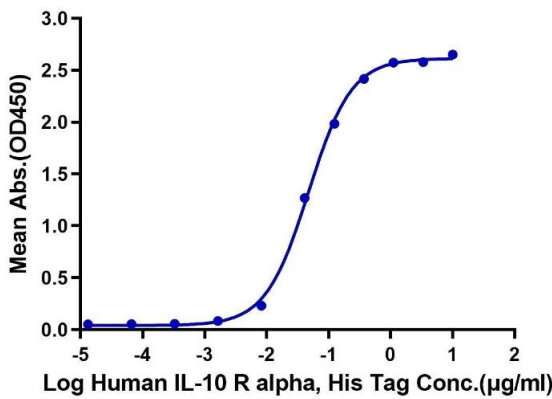
Restrictions:	For Research Use only
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Handling

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

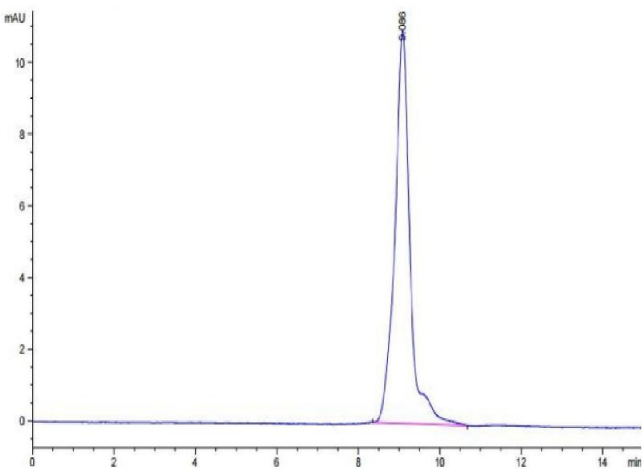
Human IL-10, No Tag ELISA

0.2µg Human IL-10, No Tag Per Well



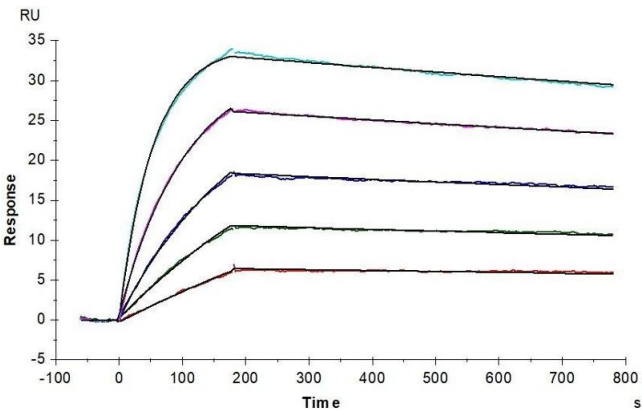
ELISA

Image 1. Immobilized Human IL-10, No Tag at 2 µg/mL (100 µL/well) on the plate. Dose response curve for Human IL-10 R alpha, His Tag with the EC50 of 47.4 ng/mL determined by ELISA.



Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 2. The purity of Human IL-10 is greater than 95 % as determined by SEC-HPLC.



Surface Plasmon Resonance

Image 3. Human IL-10 R alpha, His Tag captured on CM5 Chip via Anti-His Antibody can bind Human IL-10, No Tag with an affinity constant of 0.255 nM as determined in SPR assay (Biacore T200).

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN7274884.