

Datasheet for ABIN7274897

IL-10 Protein (His-Avi Tag,Biotin)**3** Images[Go to Product page](#)

Overview

Quantity:	100 µg
Target:	IL-10 (IL10)
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This IL-10 protein is labelled with His-Avi Tag,Biotin.

Product Details

Sequence:	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:	The affinity constant of 0.30 nM as determined in SPR assay (Biacore T200). See testing image for detail.

Target Details

Target:	IL-10 (IL10)
Alternative Name:	IL-10 (IL10 Products)
Background:	Interleukin-10, IL-10, CSIF, IL10A, TGIF, B-TCGF, GVHDS, MGC126450, MGC126451,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

Target Details

	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:	21.3 kDa. Due to glycosylation, the protein migrates to 23-25 kDa based on 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 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 8 % 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

Surface Plasmon Resonance

Image 1. Human IL-10 R alpha, His Tag immobilized on CM5 Chip can bind Biotinylated Human IL-10, His Tag with an affinity constant of 0.30 nM as determined in SPR assay (Biacore T200).

Size-exclusion chromatography-High Pressure Liquid Chromatography

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

SDS-PAGE

Image 3. Biotinylated Human IL-10 on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .

