antibodies

# Datasheet for ABIN7274906 IL-10RA Protein (AA 22-235) (His-Avi Tag)





Overview

Quantity:	100 µg
Target:	IL-10RA (IL10RA)
Protein Characteristics:	AA 22-235
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This IL-10RA protein is labelled with His-Avi Tag.

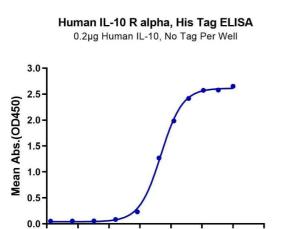
# Product Details

Purpose:	Human IL-10 R alpha Protein
Sequence:	His22-Asn235
Characteristics:	Recombinant Human IL-10 R alpha Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus.It contains His22-Asn235.
Purity:	> 95 % as determined by Tris-Bis PAGE,> 95 % as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per $\mu$ g by the LAL method.
Biological Activity Comment:	Immobilized Human IL-10, No Tag at $2\mu g/ml$ (100 $\mu l/well$ ) 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 0.13 nM as determined in SPR assay (Biacore T200). See testing image for detail.

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Target Details	
Target:	IL-10RA (IL10RA)
Alternative Name:	IL-10R alpha (IL10RA Products)
Background:	The interleukin-10 receptor alpha (IL10RA) gene codes for the alpha chain of the IL-10 receptor which binds the cytokine IL-10. IL-10 is an anti-inflammatory cytokine with immunoregulatory function during the pathogenesis of many inflammatory disorders in livestock, including Johne's disease (JD). JD is a chronic enteritis in cattle caused by Mycobacterium avium subsp. paratuberculosis (MAP) and is responsible for significant economic losses to the dairy industry Several candidate genes including IL10RA have been found to be associated with JD.
Molecular Weight:	27 kDa. Due to glycosylation, the protein migrates to 40-48 kDa based on Tris-Bis PAGE result.
UniProt:	Q13651
Pathways:	Growth Factor Binding
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

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-2

Log Human IL-10 R alpha, His Tag Conc.(µg/ml)

-1

-3

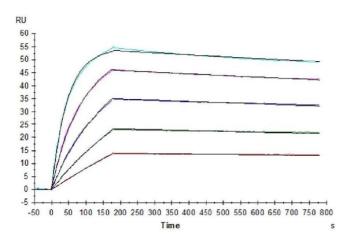
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1

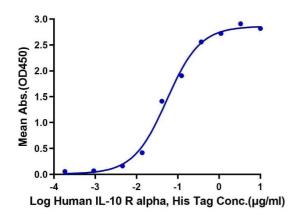
2



**Image 1.** Immobilized Human IL-10, No Tag at  $2 \mu g/mL$  (100  $\mu L/well$ ) 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.



#### Human IL-10 R alpha, His Tag ELISA 0.2µg Human IL-10, No Tag Per Well



## **Surface Plasmon Resonance**

**Image 2.** Human IL-10 R alpha, His Tag immobilized on CM5 Chip can bind Human IL-10, His Tag with an affinity constant of 0.13 nM as determined in SPR assay (Biacore T200).

### **ELISA**

**Image 3.** Immobilized Human IL-10, No Tag at  $2 \mu g/mL$  (100  $\mu L/well$ ) on the plate. Dose response curve for Human IL-10 R alpha, His Tag with the EC50 of 53.9 ng/mL determined by ELISA.

Please check the product details page for more images. Overall 5 images are available for ABIN7274906.

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