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# IL-10RA Protein (AA 22-233) (His tag)





#### Overview

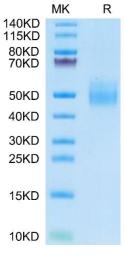
Quantity:	100 μg
Target:	IL-10RA (IL10RA)
Protein Characteristics:	AA 22-233
Origin:	Cynomolgus
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This IL-10RA protein is labelled with His tag.

## **Product Details**

Purpose:	Cynomolgus IL-10 R alpha Protein
Sequence:	His22-Asn233
Characteristics:	Recombinant Cynomolgus IL-10 R alpha Protein is expressed from HEK293 with His tag at the C-Terminus.It contains His22-Asn233.
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 1µg/ml (100µl/well) on the plate. Dose response curve for
	Cynomolgus IL-10 R alpha, His Tag with the EC50 of 8.9ng/ml determined by ELISA. The affinity
	constant of 0.93 nM as determined in SPR assay (Biacore T200). See testing image for detail.

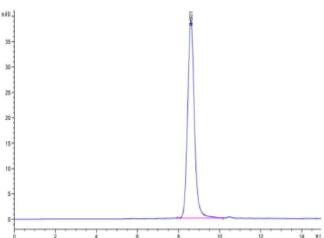
# **Target Details**

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Target:	IL-10RA (IL10RA)
Alternative Name:	IL-10 R 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:	25.34 kDa. Due to glycosylation, the protein migrates to 45-60 kDa based on Tris-Bis PAGE result.
UniProt:	A0A2K5WJ66
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



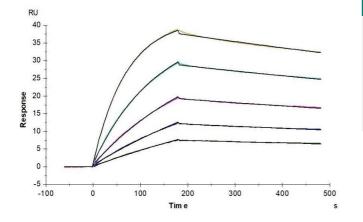
#### **SDS-PAGE**

**Image 1.** Cynomolgus IL-10 R alpha on Tris-Bis PAGE under reduced condition. The purity is greater than 95 %.



# Size-exclusion chromatography-High Pressure Liquid Chromatography

**Image 2.** The purity of Cynomolgus IL-10 R alpha is greater than 95 % as determined by SEC-HPLC.



## **Surface Plasmon Resonance**

**Image 3.** Cynomolgus IL-10 R alpha, His Tag immobilized on CM5 Chip can bind Cynomolgus IL-10, His Tag with an affinity constant of 0.93 nM as determined in SPR assay (Biacore T200).

Please check the product details page for more images. Overall 4 images are available for ABIN7274878.