Cynomolgus IL-10 R alpha Protein





Description	
Source	Recombinant Cynomolgus IL-10 R alpha Protein is expressed from HEK293 with His tag at the C-Terminus.
	It contains His22-Asn233.
Accession	A0A2K5WJ66
Molecular Weight	The protein has a predicted MW of 25.34 kDa. Due to glycosylation, the protein migrates to 45-60 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE
	> 95% as determined by HPLC

Formulation and Storage

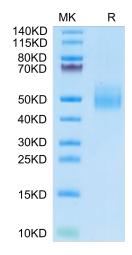
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt80°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.

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.

Assay Data

Tris-Bis PAGE



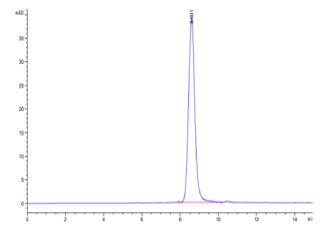
Cynomolgus IL-10 R alpha on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

Cat. No. IL1-CM1RA



Assay Data



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

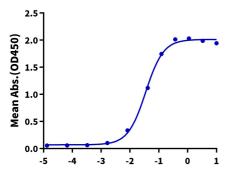
KAGTUS

Assay Data

ELISA Data

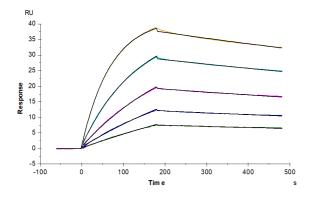
Cynomolgus IL-10 R alpha, His Tag ELISA

 $0.1 \mu g$ Human IL-10, No Tag Per Well



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

SPR Data



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 35.0ng/ml determined by ELISA (QC Test).

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).