

Human IL-10 R alpha Protein

Cat. No. IL1-HM4RA



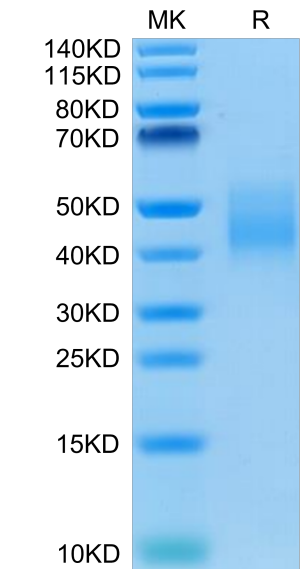
Description	
Source	Recombinant Human IL-10 R alpha Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus. It contains His22-Asn235.
Accession	Q13651
Molecular Weight	The protein has a predicted MW of 27 kDa. Due to glycosylation, the protein migrates to 40-48 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris 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	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months 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

Bis-Tris PAGE



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

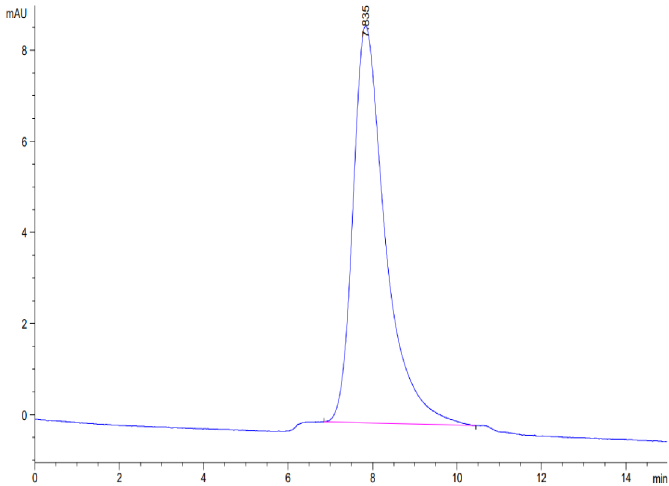
SEC-HPLC

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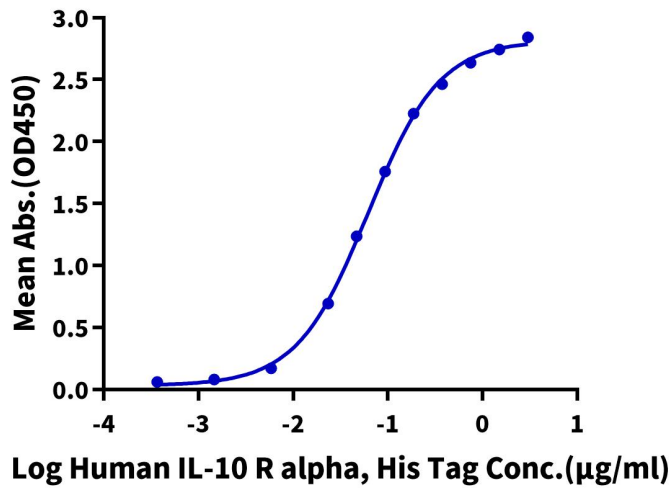
Assay Data



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

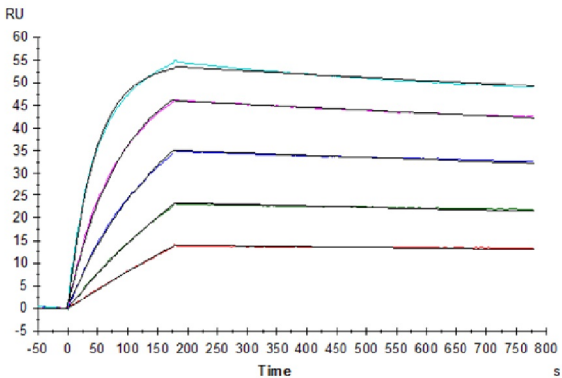
ELISA Data

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



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 61.9ng/ml determined by ELISA (QC Test).

SPR Data



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).