

Human IL-11R alpha Protein



Cat. No. ILR-HM211

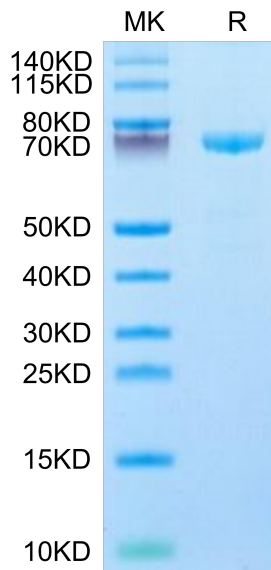
Description	
Source	Recombinant Human IL-11R alpha Protein is expressed from HEK293 with hFc tag at the C-Terminus. It contains Ser24-Ala370.
Accession	Q14626-1
Molecular Weight	The protein has a predicted MW of 64.5 kDa. Due to glycosylation, the protein migrates to 65-70 kDa based on Bis-Tris PAGE 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	Supplied as 0.22µm filtered solution in PBS (pH 7.4).
Storage	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background	
Abstract Interleukin-11 (IL-11) is a pleiotropic cytokine that belongs to gp130 family. IL-11 and its receptor, IL-11Ra, are expressed in human cancers, human cancer cells expressed a functional IL-11Ra subunit, which triggered signal transduction either by exogenous recombinant human IL-11 or by autocrine production of IL-11 in cells cultured under hypoxic conditions.	

Assay Data

Bis-Tris PAGE



Human IL-11R alpha on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

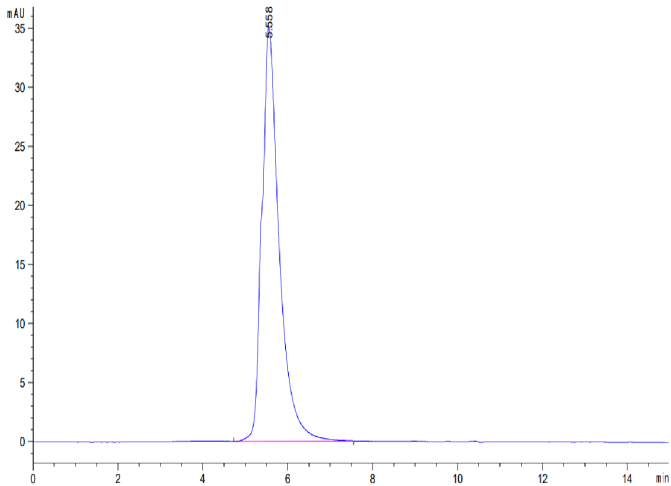
SEC-HPLC

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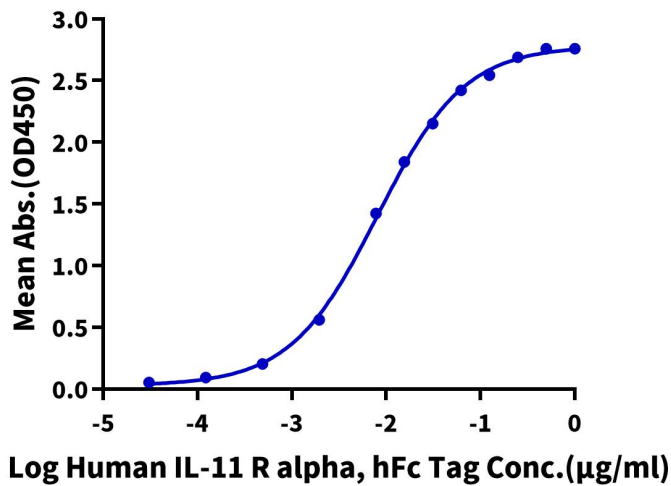
Assay Data



The purity of Human IL-11R alpha is greater than 95% as determined by SEC-HPLC.

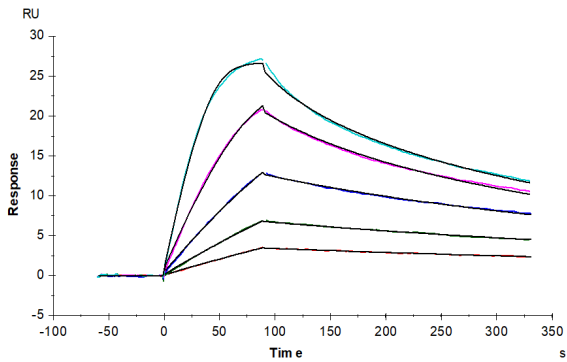
ELISA Data

Human IL-11 R alpha, hFc Tag ELISA  
0.2μg Human IL-11, His Tag Per Well



Immobilized Human IL-11, His Tag at 2μg/ml (100μl/Well) on the plate. Dose response curve for Human IL-11 R alpha, hFc Tag with the EC50 of 8.1ng/ml determined by ELISA.

SPR Data



Human IL-11R alpha, hFc Tag captured on CM5 Chip via protein A can bind Human IL-11, His Tag with an affinity constant of 0.34 nM as determined in SPR assay (Biacore T200).