

# Human IL-11R alpha Protein

Cat. No. ILR-HM211

## Description

<b>Source</b>	Recombinant Human IL-11R alpha Protein is expressed from Expi293 with hFc tag at the C-terminal. It contains Ser24-Ala370.
<b>Accession</b>	Q14626-1
<b>Molecular Weight</b>	The protein has a predicted MW of 64.5 kDa. Due to glycosylation, the protein migrates to 65-70 kDa based on Tris-Bis PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

## Formulation and Storage

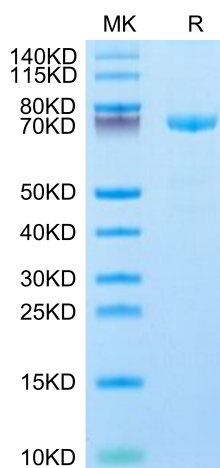
<b>Formulation</b>	Supplied as 0.22µm filtered solution in PBS (pH 7.4). Please dilute to the desired concentration according to the concentration of the solution shown on the product label.
<b>Storage</b>	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please do not repeated 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.

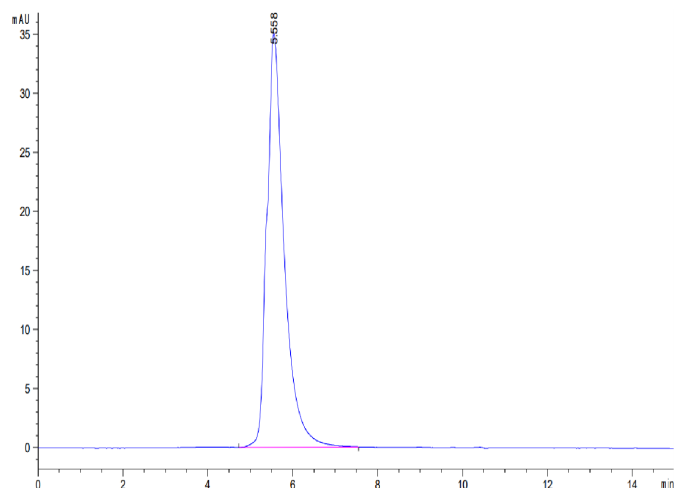
## Assay Data

### Tris-Bis PAGE



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

### SEC-HPLC



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

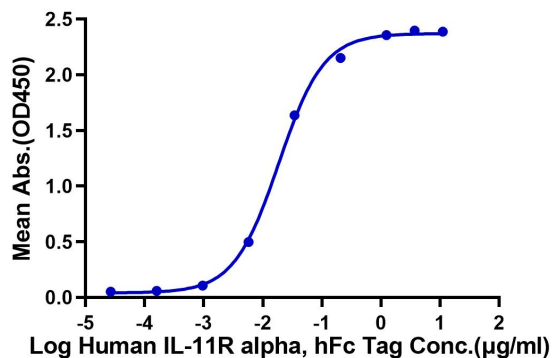
## ELISA Data

For Research Use Only

Assay Data

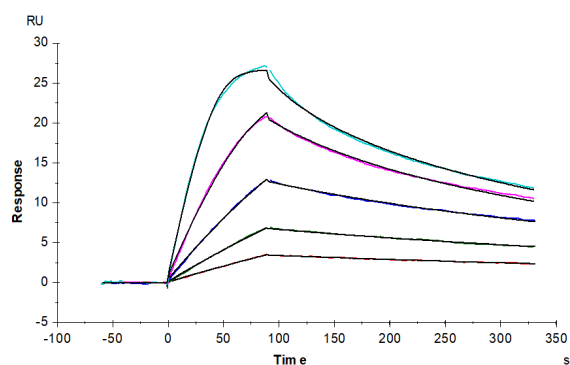
Human IL-11R alpha, hFc Tag ELISA

0.1µg Human IL-11, His Tag Per Well



Immobilized Human IL-11, His Tag at 1µg/ml (100µl/Well) on the plate. Dose response curve for Human IL-11R alpha, hFc Tag with the EC50 of 18.6ng/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).