

# Human IL-11R alpha Protein

Cat. No. ILR-HM111

## Description

<b>Source</b>	Recombinant Human IL-11R alpha Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Ser24-Ala370.
<b>Accession</b>	Q14626-1
<b>Molecular Weight</b>	The protein has a predicted MW of 38.8 kDa. Due to glycosylation, the protein migrates to 50-55 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1EU per $\mu\text{g}$ by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

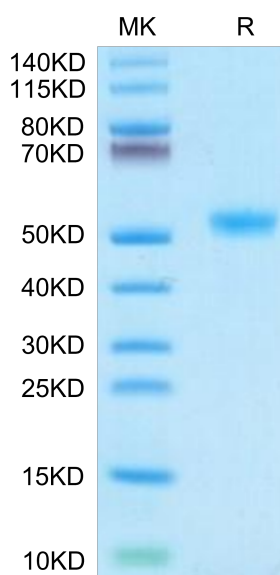
<b>Formulation</b>	Supplied as 0.22 $\mu\text{m}$ filtered solution in PBS (pH 7.4).
<b>Storage</b>	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## 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

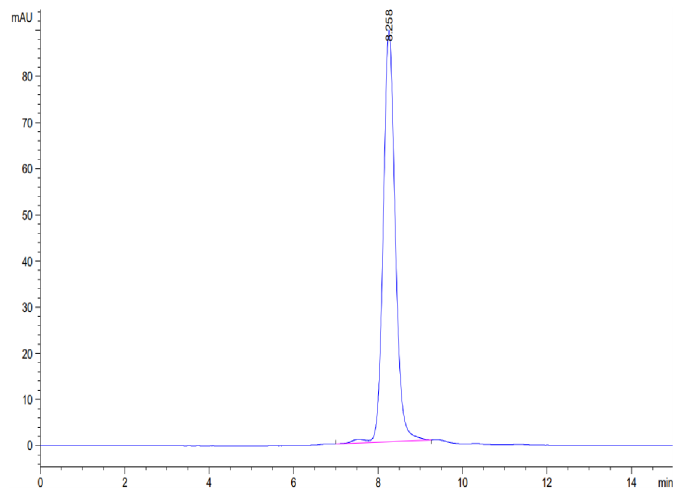
### Bis-Tris PAGE



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

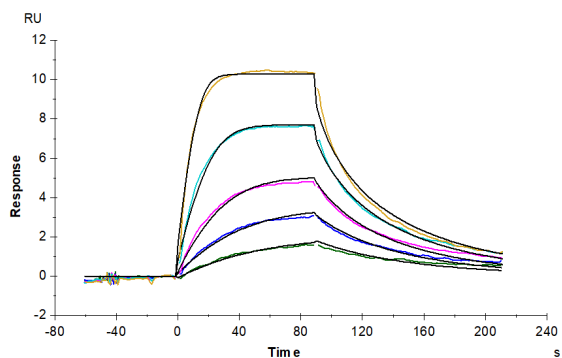
### SEC-HPLC

Assay Data



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

SPR Data



Human IL-11R alpha, His Tag immobilized on CM5 Chip can bind Human IL-11, His Tag with an affinity constant of 1.86 nM as determined in SPR assay (Biacore T200).