

# Human IL-6 R alpha/CD126 Protein

Cat. No. ILR-HM26R

## Description

<b>Source</b>	Recombinant Human IL-6 R alpha/CD126 Protein is expressed from HEK293 with hFc tag at the C-Terminus. It contains Leu20-Pro365.
<b>Accession</b>	P08887-1
<b>Molecular Weight</b>	The protein has a predicted MW of 65.3 kDa. Due to glycosylation, the protein migrates to 85-110 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

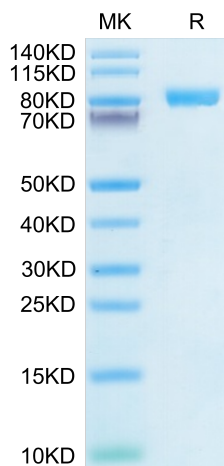
<b>Formulation</b>	Lyophilized from 0.22 $\mu\text{m}$ filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 24 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

Serum levels of interleukin-6 (IL-6) are increased in patients with type 2 diabetes (T2D). IL-6 exerts its pleiotropic effects via the IL-6  $\alpha$ -receptor (IL-6R), which exists in membrane-bound and soluble (sIL-6R) forms and activates cells via the  $\beta$ -receptor glycoprotein 130 (gp130).

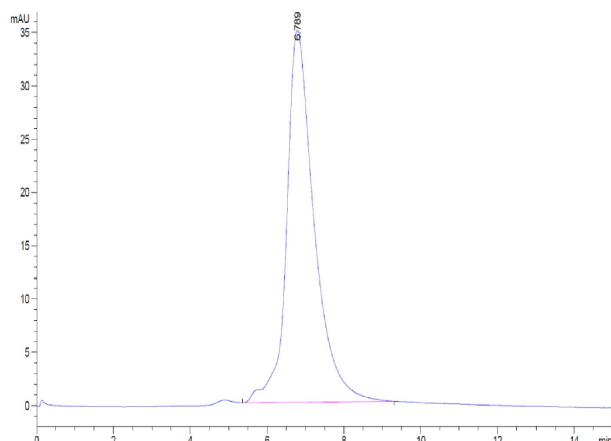
## Assay Data

### Bis-Tris PAGE



Human IL-6 R alpha on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC



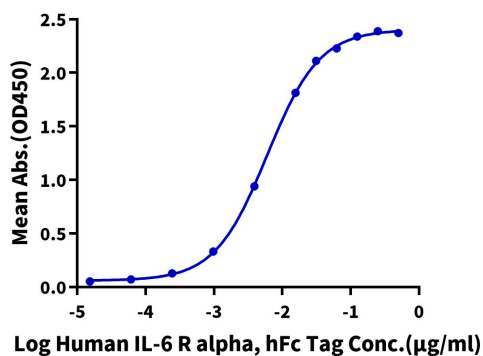
The purity of Human IL-6 R alpha is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

**Human IL-6 R alpha, hFc Tag ELISA**

0.2µg Human IL-6, No Tag Per Well

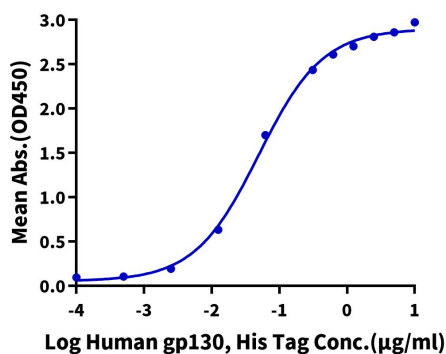


Immobilized Human IL-6 at 2µg/ml (100µl/Well) on the plate. Dose response curve for Human IL-6 R alpha, hFc Tag with the EC50 6.0ng/ml determined by ELISA (QC Test).

ELISA Data

**Human IL-6 R alpha, hFc Tag ELISA**

0.2µg Human IL-6 R alpha, hFc Tag Per Well



Immobilized Human IL-6 R alpha, hFc Tag at 2µg/ml (100µl/well) on the Human IL-6, No Tag precoated plate (5µg/ml). Dose response curve for Human gp130, His Tag with the EC50 of 49.6ng/ml determined by ELISA.