# Recombinant Human IL-6RA/CD126 Protein

**Catalog No.: RP00269**

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## Sequence Information

**Species**
Human

**Gene ID**
3570

**Swiss Prot**
P08887

**Tags**
C-His

**Synonyms**
IL6R,CD126,IL-6R-1,IL-6RA,IL6Q, IL6RA,IL6RQ,gp80

## Product Information

**Source**
HEK293 cells

**Purification**
≥ 90 % as determined by SDS-PAGE;≥ 90 % as determined by HPLC.

**Calculated MW**
38.71 kDa

**Observed MW**
55-70 kDa

**Endotoxin**
< 0.1 EU/μg of the protein by LAL method.

**Formulation**
Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.Contact us for customized product form or formulation.

**Reconstitution**
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Background

The soluble form of recombinant human IL6R consists of 357 amino acids with a molecular weight of 40 kDa. It migrates with an apparent molecular mass of 60-65 kDa due to glycosylation in SDS-PAGE under reducing conditions. Interleukin 6 receptor (IL-6R) also known as CD126 (Cluster of Differentiation 126) is a potent pleiotropic cytokine that regulates cell growth and differentiation of various tissues, and is known particularly for its role in the immune response and acute phase reactions. The low concentration of a soluble form of IL-6 receptor (sIL-6R) acts as an agonist of IL-6 activity. In the IL-6R/CD126/IL6R system, both a membrane-bound IL-6R and a sIL-6R protein are able to mediate IL-6 signals into the cells through the interaction of gp13. The resulting IL-6/sIL-6R protein complex is also capable of binding to gp13 and inducing intracellular signalling. Through this so-called 'trans-signalling' mechanism, IL-6 is able to stimulate cells that lack an endogenous mIL-6R. Dysregulated production of IL6 and IL6R are implicated in the pathogenesis of several inflammatory diseases and malignancies, and it has been reported that a humanized anti-IL6R monoclonal antibody is a promising agent applicable to the therapeutic approach for IL6 driven diseases.

## Basic Information

**Description**
Recombinant Human IL-6RA/CD126 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Leu20-Asp358) of human IL-6 R alpha (Accession #NP_000556.1) fused with a 6×His tag at the C-terminus.

**Activity**
Measured by its binding ability in a functional ELISA. Immobilized Human IL6R at 1 μg/mL (100 μL/well) can bind Human IL-6 with a linear range of 2-15 ng/mL.

**Shipping**
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

**Storage**
Store at -20℃

**Operational Notes**
For your safety and health, please wear a lab coat and disposable gloves for handling.

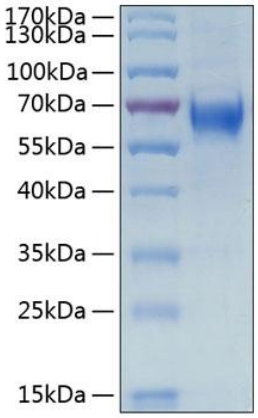
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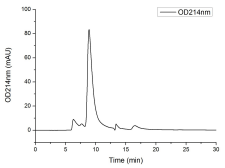


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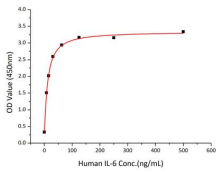
## Validation Data




Recombinant Human IL-6RA/CD126 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.




The purity of Human IL-6 R alpha Protein (Cat.RP00269) was greater than 90% as determined by SEC-HPLC.




Immobilized Human IL6R at 1 μg/mL (100 μL/well) can bind Human IL-6 with a linear range of 2-15ng/mL.



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