

# Human IL-6R / CD126 Protein (Fc Tag)

Catalog Number: 10398-H02H



Sino Biological  
Biological Solution Specialist

## General Information

### Gene Name Synonym:

CD126; gp80; IL-6R; IL-6R-1; IL-6RA; IL6Q; IL6RA; IL6RQ

### Protein Construction:

A DNA sequence encoding the human IL6R (NP\_000556.1) (Met1-Pro365) was expressed with the Fc region of human IgG1 at the C-terminus.

**Source:** Human

**Expression Host:** HEK293 Cells

## QC Testing

**Purity:** > 95 % as determined by SDS-PAGE.

### Bio Activity:

Measured by its ability to enhance the activity of IL6 on M1 mouse myeloid leukemia cells. The  $ED_{50}$  for this effect is typically 30-125 ng/mL in the presence of 100 ng/mL of recombinant human IL6.

### Endotoxin:

< 1.0 EU per  $\mu$ g protein as determined by the LAL method.

### Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

**Predicted N terminal:** Pro 20

### Molecular Mass:

The recombinant human IL6R consists of 464 amino acids and predicts a molecular mass of 52.2 kDa.

### Formulation:

Lyophilized from sterile PBS, pH 7.4.

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

## Usage Guide

### Storage:

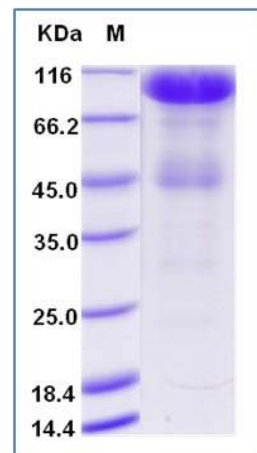
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

**Avoid repeated freeze-thaw cycles.**

### Reconstitution:

Detailed reconstitution instructions are sent along with the products.

## SDS-PAGE:



## Protein Description

Interleukin 6 receptor (IL-6R) also known as CD126 (Cluster of Differentiation 126) is a type I cytokine receptor. 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. High levels of IL-6 and sIL-6R have been reported in several chronic inflammatory and autoimmune diseases as well as in cancer.

## References

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