

For Research Use Only

# Recombinant Human CD126/IL-6R alpha protein (His Tag)



Catalog Number: Eg0490

## Basic Information

**Species:**  
Human

**Purity:**  
>95 %, SDS-PAGE

**Tag:**  
His Tag

**EC50:**  
6-23 ng/mL

## Technical Specifications

**Purity:**  
>95 %, SDS-PAGE

**Endotoxin Level:**  
<0.1 EU/  $\mu$ g protein, LAL method

**Source:**  
HEK293-derived Human IL-6R alpha protein Leu20-Pro365 (Accession# P08887-1) with His tag at the C-terminus.

**GeneID:**  
3570

**Accession:**  
P08887-1

**Predicted Molecular Mass:**  
42.3 kDa

**SDS-PAGE:**  
55-80 kDa, reducing (R) conditions

**Formulation:**  
Lyophilized from 0.22  $\mu$ m filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

## Biological Activity

Immobilized Human IL-6 (Myc tag, His tag) at 2  $\mu$ g/mL (100  $\mu$ L/well) can bind Human IL-6R alpha (His tag) with a linear range of 6-23 ng/mL.

## Storage and Shipping

### Storage:

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

### Shipping:

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

## Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

## Background

Interleukin 6 receptor (IL6R) also known as CD126 (Cluster of Differentiation 126) is a type I cytokine receptor. Interleukin 6 (IL6) is a potent pleiotropic cytokine that regulates cell growth and differentiation and plays an important role in immune response. Dysregulated production of IL6 and this receptor are implicated in the pathogenesis of many diseases, such as multiple myeloma, autoimmune diseases and prostate cancer. The IL6 receptor is a protein complex consisting of this protein and interleukin 6 signal transducer (IL6ST/GP130/IL6-beta), a receptor subunit also shared by many other cytokines.

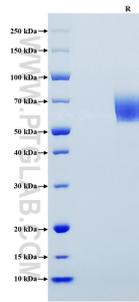
## References

1. Arnold P., et al. (2020). Cells. 24;9(5):1307.
2. Yamasaki K., et al. (2020). Neuropsychopharmacol Rep. 40(2):130-137.
3. Hoek KS., et al. (2008). Pigment Cell Melanoma Res. 21(6):665-76.

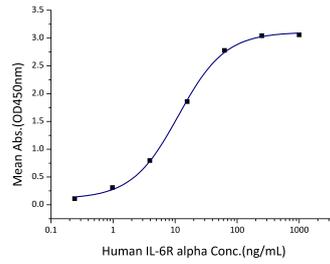
## Synonyms

CD126, CD126/IL-6R alpha, IL-6R alpha, gp80, IL 6 receptor subunit alpha

## Selected Validation Data



Purity of Recombinant Human IL-6R alpha was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) conditions and stained using Coomassie blue.



Immobilized Human IL-6 (Myc tag, His tag) at 2  $\mu$ g/mL (100  $\mu$ L/well) can bind Human IL-6R alpha (His tag) with a linear range of 6-23 ng/mL.

For technical support and original validation data for this product please contact

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