

# Biotinylated Recombinant Human IL-6RA/CD126 Protein

Catalog No.: RP02425B Recombinant

# **Sequence Information**

**Species Gene ID Swiss Prot** Human 3570 P08887

**Tags** C-His&Avi

**Synonyms** 

IL6R;CD126;IL-6R-1;IL-6RA;IL6Q;IL6RA;IL 6RQ;gp80

## **Product Information**

Source Purification

HEK293 cells ≥ 95 % as determined by Tris-Bis PAGE;≥ 90 % as determined by

HPLC.

Calculated MW Observed MW

41.4 kDa 70-80 kDa

#### **Endotoxin**

< 1 EU/ $\mu g$  of the protein by LAL method.

## **Formulation**

Lyophilized from a 0.22  $\mu$ m filtered solution of PBS, pH 7.4.

#### Reconstitution

Centrifuge the tube 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.

# **Contact**

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# Background

The multifunctional factor interleukin 6 (IL-6) exerts its activities through binding to a high-affinity receptor complex consisting of two membrane glycoproteins: an 80 kDa component receptor that binds IL-6 with low affinity (IL-6R alpha) and a signal-transducing component of 130 kDa (gp130) that does not bind IL-6 by itself, but is required for high-affinity binding of IL-6 by the complex. Both components of the receptor complex, IL-6R alpha and gp130 have been cloned, sequenced, and expressed.

## **Basic Information**

#### **Description**

Biotinylated Recombinant Human IL-6RA/CD126 Protein is produced by Expi293 expression system. The target protein is expressed with sequence (Leu20-Pro365) of Human IL-6RA fused with a His and Avi tag at the C-terminal.

### **Bio-Activity**

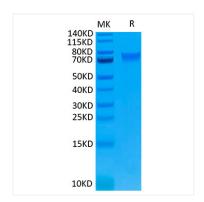
#### Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80°C up to 1 year from the date of receipt.

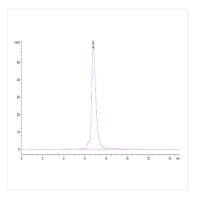
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

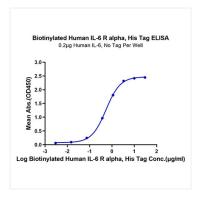
# **Validation Data**



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



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



Immobilized Human IL-6, No Tag at  $2\mu g/ml$  (100 $\mu$ l/well) on the plate. Dose response curve for Biotinylated Human IL-6 R alpha, His Tag with the EC $_{50}$  of 0.54 $\mu$ g/ml determined by ELISA.