

For Research Use Only

Recombinant Human IL-6R alpha protein (Myc Tag, His Tag)



Catalog Number: Eg0180

Basic Information

Species:

Human

Purity:

>95 %, SDS-PAGE

Tag:

C-Myc, His

EC50:

32-130 ng/mL

Technical Specifications

Purity:

>95 %, SDS-PAGE

Endotoxin Level:

<0.1 EU/ μ g protein, LAL method

Source:

HEK293-derived Human IL-6R alpha protein Leu20-Pro365 (Accession# P08887) with a Myc tag and a His tag at the C-terminus.

GeneID:

3570

Accession:

P08887

Predicted Molecular Mass:

41 kDa

SDS-PAGE:

60-75 kDa, reducing (R) conditions

Formulation:

Lyophilized from 0.22 μ 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 1 μ g/mL (100 μ L/well) can bind Human IL-6R alpha (Myc tag, His tag) with a linear range of 32-130 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.

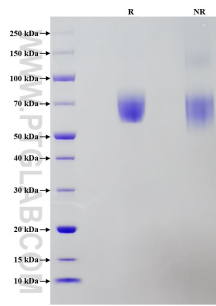
References

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.

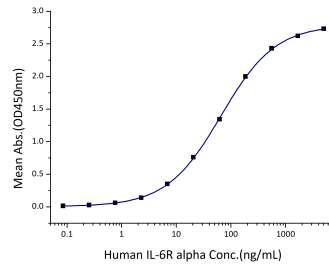
Synonyms

CD126, IL-6R alpha, gp80, IL 6 receptor subunit alpha, IL 6R 1

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) and non-reducing (NR) conditions and stained using Coomassie blue.



Immobilized Human IL-6 (Myc tag, His tag) at $1 \mu\text{g/mL}$ ($100 \mu\text{L/well}$) can bind Human IL-6R alpha (Myc tag, His tag) with a linear range of 32-130 ng/mL.

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

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