



**Synonym**

IL6R,CD126,IL-6R-1,IL-6RA,IL6RA,IL-6R-alpha,IL6RQ,gp80

**Source**

Biotinylated Human IL-6 R alpha, Fc,Avitag(ILR-H82F9) is expressed from human 293 cells (HEK293). It contains AA Leu 20 - Pro 365 (Accession # [P08887-1](#)).

Predicted N-terminus: Leu 20

**Molecular Characterization**

IL-6 R alpha(Leu 20 - Pro 365) P08887-1	Fc(Pro 100 - Lys 330) P01857	Avi
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This protein carries a human IgG1 Fc tag at the C-terminus, followed by an Avi tag (Avitag™).

The protein has a calculated MW of 66.7 kDa. The protein migrates as 100-110 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

**Labeling**

*Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.*

**Protein Ratio**

Passed as determined by the HABA assay / binding ELISA.

**Endotoxin**

Less than 1.0 EU per µg by the LAL method.

**Purity**

>95% as determined by SDS-PAGE.

**Formulation**

Lyophilized from 0.22 µm filtered solution in 50 mM Tris, 100 mM Glycine, 25 mM Arginine, 150 mM NaCl, pH7.5 with trehalose as protectant.

Contact us for customized product form or formulation.

**Reconstitution**

Please see Certificate of Analysis for specific instructions.

*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.*

**Storage**

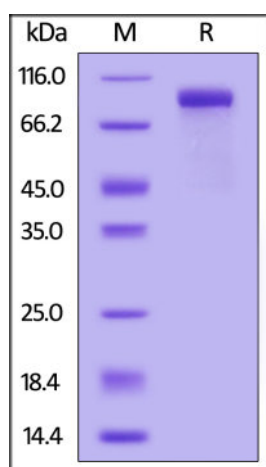
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

**SDS-PAGE**

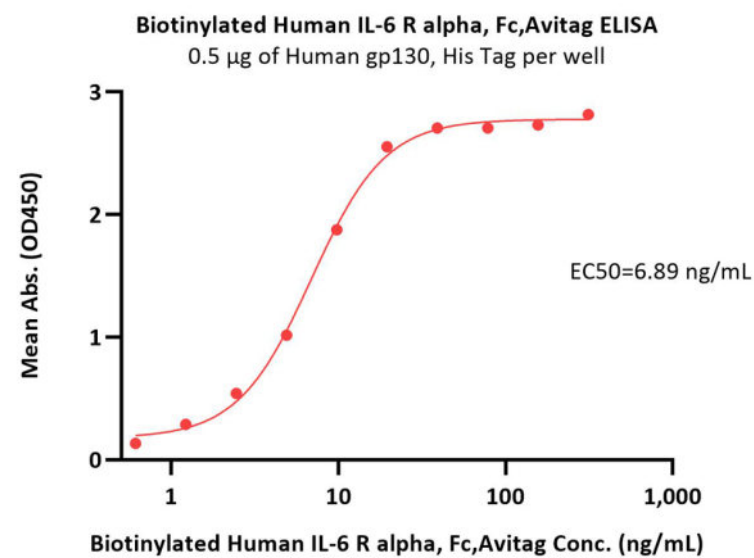
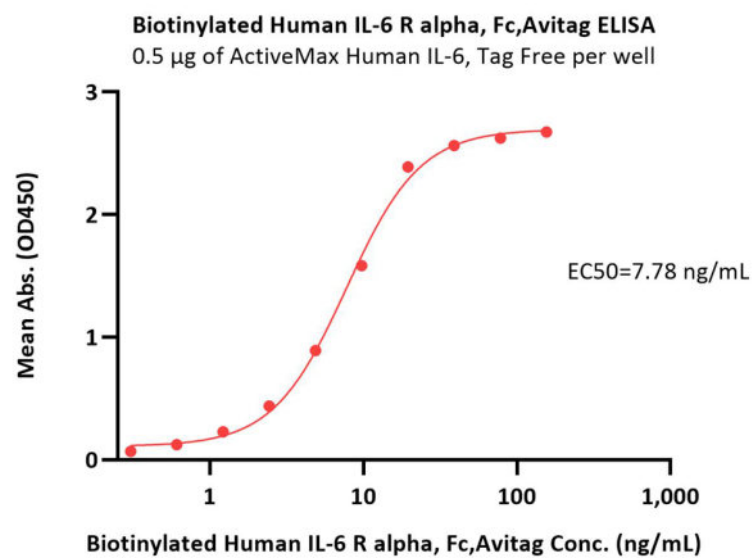


Biotinylated Human IL-6 R alpha, Fc,Avitag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

**Bioactivity-ELISA**

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Immobilized Human IL-6, premium grade (Cat. No. IL6-H4218) at 5 µg/mL (100 µL/well) can bind Biotinylated Human IL-6 R alpha, Fc,Avitag (Cat. No. ILR-H82F9) with a linear range of 0.3-20 ng/mL (QC tested).

Immobilized Human gp130, His Tag (Cat. No. ILT-H52H2) at 5 µg/mL (100 µL/well) can bind Human IL-6, premium grade (Cat. No. IL6-H4218) in the presence of Biotinylated Human IL-6 R alpha, Fc,Avitag (Cat. No. ILR-H82F9) with a linear range of 0.6-20 ng/mL (Routinely tested).

## Background

Interleukin 6 receptor (IL6R) is 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. IL6R is a protein complex consisting of a IL-6 receptor subunit (IL6R) and interleukin 6 signal transducer Glycoprotein 130. IL6R also denotes the human gene encoding this subunit. Alternatively spliced transcript variants encoding distinct isoforms have been reported. IL6R subunit also shared by many other cytokines. The soluble form of IL6R arises from proteolytic cleavage of membrane-bound IL6R $\alpha$ , and acts agonistically by making the IL6 ligand accessible to the signal transducer gp130. Dysregulated production of IL6 and IL6R are implicated in the pathogenesis of several inflammatory diseases and malignancies such as multiple myeloma, rheumatoid arthritis, or osteoporosis, 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. Interleukin-6 receptor has been shown to interact with Interleukin 6 and Ciliary neurotrophic factor.

## Clinical and Translational Updates

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