

# Active Recombinant Human IL6R Protein (350 aa), N-His-tagged

**Cat. No.** IL6R-139I    **Lot. No.** (See product label)

## SPECIFICATION

**Product Overview**      Recombinant human Soluble IL-6 Receptor Alpha (rhsIL-6R alpha) with an N-terminal His tag produced in Sf9 insect cells is a single glycosylated polypeptide chain containing 350 amino acids. A fully biologically active molecule, rhsIL-6R alpha has a molecular mass of 50kDa analyzed by reducing SDS-PAGE and is obtained by proprietary chromatographic techniques.

**Species**      Human

**Source**      Sf9 Cells


**ProteinLength**      350

**Description**      Interleukin-6 Receptor (IL-6R) is a single trans-membrane protein that is the receptor for Interleukin-6 (IL-6). IL-6R forms a hexameric complex upon binding 2 molecules of IL-6 and two molecules of glycoprotein 130 (gp130) which activates intracellular JAK/STAT pathways. Although the normal form of IL-6R is the membrane-bound 80 kDa subunit, a soluble form of IL-6R (sIL-6R) can be generated physiologically by limited proteolysis or alternative splicing. sIL-6R binds to both IL-6 and gp130 generating intracellular signaling. In the immune system, sIL-6R is produced by both naïve and memory CD4 T-cells and strongly augments IL-6 ligand's induction of Th-17 cells.

**Form**      Sterile Filtered White lyophilized (freeze-dried) powder.

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Bio-activity</b>	ED50 < 50 ng/mL, measured by the cytotoxicity assay using M1 cells in presence of 10 ng/mL of human IL-6, corresponding to a specific activity of > 2 × 10 <sup>4</sup> units/mg.
<b>Molecular Mass</b>	50 kDa, observed by reducing SDS-PAGE.
<b>AA Sequence</b>	HHHHHHDDDDKLAPRRCPAQEVARGVLTSLPGDSVTLTCLPGVEPEDNATVHWVLR KPAAGSHPSRWAGMGRLLLLRSVQLHDSGNYSYRAGRPAAGTVHLLVDVPPEEPQ LSCFRKSPLSNVCEWGRSTPSLTTKAVLLVRKFQNSPAEDFQEPQYSQESQKF SCQLAVPEGDSSFYIVSMCVASSVGSKFSKTQTFQGCILQPDPPANITVTAVARNP RWLSVTWQDPHSWNSSFYRLRFELRYRAERSKTFTTWMVKDLQHHCVIHDAWSG LRHVQLRAQEEFGQGEWSEWSPEAMGTPWTESRSPPAENEVSTPMQALTTNKD DDNILFRDSANATSLPVQD
<b>Endotoxin</b>	< 0.2 EU/μg, determined by LAL method.
<b>Purity</b>	> 95% by SDS-PAGE and HPLC analyses.
<b>Storage</b>	Lyophilized recombinant human Soluble IL-6 Receptor Alpha (rhsIL-6R alpha) remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, rhsIL-6R alpha remains stable up to 2 weeks at 4 centigrade or up to 3 months at -20 centigrade.
<b>Storage Buffer</b>	Lyophilized after extensive dialysis against PBS.
<b>Reconstitution</b>	Reconstituted in ddH <sub>2</sub> O at 100 μg/mL.

## GENE INFORMATION

<b>Gene Name</b>	IL6R interleukin 6 receptor [ Homo sapiens (human) ]
<b>Official Symbol</b>	IL6R

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<b>Synonyms</b>	IL6R; interleukin 6 receptor; IL6Q; gp80; CD126; HIES5; IL-6R; IL6RA; IL6RQ; IL-1Ra; IL-6RA; IL6QTL; IL-6R-1; interleukin-6 receptor subunit alphaCD126 antigenIL-6 receptor subunit alpha membrane glycoprotein 80
<b>Gene ID</b>	<a href="#">3570</a>
<b>mRNA Refseq</b>	<a href="#">NM_000565</a>
<b>Protein Refseq</b>	<a href="#">NP_000556</a>
<b>MIM</b>	<a href="#">147880</a>
<b>UniProt ID</b>	<a href="#">P08887</a>

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