

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.

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Bio-activity	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 ⁴ units/mg.
Molecular Mass	50 kDa, observed by reducing SDS-PAGE.
AA Sequence	HHHHHHDDDDKLAPRRCPAQEVARGVLTSLPGDSVTLTCPGVEPEDNATVHWVLR KPAAGSHPSRWAGMGRLLLLRSVQLHDSGNYSCYRAGRPAAGTVHLLVDVPPEEPQ LSCFRKSPLSNVCEWGRSTPSLTTKAVLLVRKFQNSPAEDFQEPQYSQESQKF SCQLAVPEGDSSFYIVSMCVASSVGSKFSKTQTFQGCILQPDPPANITVTAVARNP RWLSVTWQDPHSWNSSFYRLRFELRYAERSKTFTTWMVKDLQHHCVIHDAWSG LRHVVLRAQEEFGQGEWSEWSPEAMGTPWTESRPPAENEVSTPMQALTNNKD DDNILFRDSANATSLPVQD
Endotoxin	< 0.2 EU/μg, determined by LAL method.
Purity	> 95% by SDS-PAGE and HPLC analyses.
Storage	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.
Storage Buffer	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH ₂ O at 100 μg/mL.
GENE INFORMATION	
Gene Name	IL6R interleukin 6 receptor [Homo sapiens (human)]
Official Symbol	IL6R

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Synonyms	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
Gene ID	3570
mRNA Refseq	NM_000565
Protein Refseq	NP_000556
MIM	147880
UniProt ID	P08887

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