

# Recombinant Human Interleukin 6 Receptor

**Cat. No.** IL6R-545H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant human IL6R was expressed in HEK 293 cells and purified recombinant Human IL6R alpha protein.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Source</b>           | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Description</b>      | IL6 mediates its biological effects through the type I IL6 receptor system that consists of two chains, IL6R and gp130. The IL6R chain is the binding component specific to IL6; while the gp130 only transmits signals of IL6 when bound to IL6R. The gp130 also can transmit signals from LIF, OSM, CNTF, IL11 and CT-1 in conjunction with other receptor subunits. The low-affinity binding site for IL6 is composed of IL6R alone. IL6R is expressed in a wide range of cells including T cells, fibroblasts and macrophages. Soluble IL6R which consists of only the extracellular domain of the IL6R chain, acts as an agonist of IL6 activity at low concentrations. |
| <b>Form</b>             | Lyophilized from 1xPBS. Reconstitute in 1xPBS to a concentration of 0.1-1.0 mg/ml. When dissolved, dilute further into aqueous buffered solutions.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Purity</b>           | > 98% pure by SDS-PAGE and HPLC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Sequence</b>         | Region of IL6R protein corresponding to amino acids LAPRRCPAQE VARGVLTSLP<br>GDSVTLTCPGVEPEDNATVH WVLKPAAGS HPSRWAGMGR RLLRSVQLH<br>DSGNYSCYRA GRPAGTVHLL VDVPEEPQLSCFRKSPLSN VVCEWGPRST<br>PSLTTKAVLL VRKFQNSPAE DFQEPQCYSQ ESQKFSCQLA                                                                                                                                                                                                                                                                                                                                                                                                                                      |

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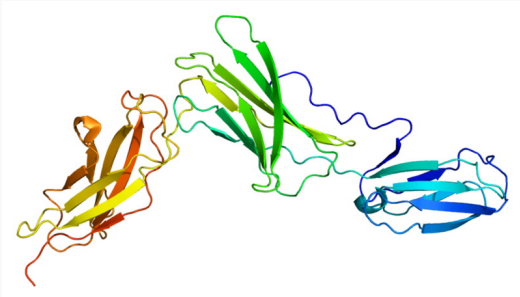
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|                            |                                                                                                                                                                                      |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                            | VPEGDSSFYIVSMCVASSVG SKFSK                                                                                                                                                           |
| <b>Molecular Mass</b>      | 37.6 kDa                                                                                                                                                                             |
| <b>Applications</b>        | Numerous applications are possible with this product and should be tested by the enduser under their own laboratory conditions.                                                      |
| <b>Storage</b>             | Store at 4 deg C until reconstitution. Following reconstitution aliquot and freeze at -20 degC for long term storage. Avoid repeated freeze/thaw cycles.                             |
| <b>Official Symbol</b>     | IL6R                                                                                                                                                                                 |
| <b>GENE INFORMATION</b>    |                                                                                                                                                                                      |
| <b>Gene Name</b>           | IL6Rinterleukin 6 receptor [ Homo sapiens ]                                                                                                                                          |
| <b>Synonyms</b>            | IL6R; interleukin 6 receptor; Interleukin-6 receptor subunit alpha; IL-6R-alpha; IL-6R 1; Membraneglycoprotein 80; gp80; CD126; IL-6R-1; MGC104991; OTTHUMP00000034320; CD126antigen |
| <b>Gene ID</b>             | 3570                                                                                                                                                                                 |
| <b>mRNA Refseq</b>         | NM_000565                                                                                                                                                                            |
| <b>Protein Refseq</b>      | NP_000556                                                                                                                                                                            |
| <b>MIM</b>                 | 147880                                                                                                                                                                               |
| <b>UniProt ID</b>          | P08887                                                                                                                                                                               |
| <b>Chromosome Location</b> | 1q21                                                                                                                                                                                 |

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|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Pathway</b>                     | Cytokine Signalingin Immune system; Cytokine-cytokine receptor interaction; Hematopoietic celllineage; IL-6 Signaling Pathway; IL6-mediated signaling events; Immune System;Interleukin-6 signaling; Jak-STAT signaling pathway; SIDS SusceptibilityPathways; Senescence and Autophagy; Signaling by Interleukins |
| <b>Function</b>                    | ciliary neurotrophic factorbinding; ciliary neurotrophic factor receptor activity; enzyme binding;interleukin-6 receptor activity; interleukin-6 receptor binding; proteinhomodimerization activity; receptor activity; contributes_tointerleukin-6 receptor binding; protein binding                             |
| <b>PDB rendering basedon 1n26.</b> |                                                                                                                                                                                                                                |