

Recombinant Human Interleukin 6 Receptor

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

SPECIFICATION

Product Overview	Recombinant human IL6R was expressed in HEK 293 cells and purified recombinant Human IL6R alpha protein.
Species	Human
Source	Human
Description	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.
Form	Lyophilized from 1xPBS. Reconstitute in 1xPBS to a concentration of 0.1-1.0 mg/ml. When dissolved, dilute further into aqueous buffered solutions.
Purity	> 98% pure by SDS-PAGE and HPLC
Sequence	Region of IL6R protein corresponding to amino acids LAPRRCPAQE VARGVLTSLP GDSVTLTCGPVEPEDNATVH WVLRKPAAGS HPSRWAGMGR RLLLRVQLH DSGNYSCYRA GRPAGTVHLL VDVPEEPQLSCFRKSPLSN VVCEWGPRST PSLTTKAVLL VRKFQNSPAE DFQEPCQYSQ ESQKFSCQLA

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VPEGDSSFYIVSMCVASSVG SKFSK

Molecular Mass 37.6 kDa

Applications Numerous applications are possible with this product and should be tested by the enduser under their own laboratory conditions.

Storage Store at 4 deg C until reconstitution. Following reconstitution aliquot and freeze at -20 degC for long term storage. Avoid repeated freeze/thaw cycles.

Official Symbol IL6R

GENE INFORMATION

Gene Name IL6R interleukin 6 receptor [Homo sapiens]

Synonyms IL6R; interleukin 6 receptor; Interleukin-6 receptor subunit alpha; IL-6R-alpha; IL-6R 1; Membrane glycoprotein 80; gp80; CD126; IL-6R-1; MGC104991; OTTHUMP00000034320; CD126 antigen

Gene ID 3570

mRNA Refseq NM_000565

Protein Refseq NP_000556

MIM 147880

UniProt ID P08887

Chromosome Location 1q21

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Pathway

Cytokine Signaling in Immune system; Cytokine-cytokine receptor interaction; Hematopoietic cell lineage; IL-6 Signaling Pathway; IL6-mediated signaling events; Immune System; Interleukin-6 signaling; Jak-STAT signaling pathway; SIDS Susceptibility Pathways; Senescence and Autophagy; Signaling by Interleukins

Function

ciliary neurotrophic factor binding; ciliary neurotrophic factor receptor activity; enzyme binding; interleukin-6 receptor activity; interleukin-6 receptor binding; protein homodimerization activity; receptor activity; contributes to interleukin-6 receptor binding; protein binding

PDB rendering based on 1n26.