

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 GDSVTLTCTPGVEPEDNATVH WVLKPKAAGS HPSRWAGMGR RLLLRVQLH DSGNYSYRA GRPAGTVHLL VDVPEEPQLSCFRKSPLSN VVCEWGPRST PSLTTKAVLL VRKFQNSPAE DFQEPCCQYSQ ESQKFSCQLA

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

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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

	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	IL6Rinterleukin 6 receptor [Homo sapiens]
Synonyms	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
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 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
Function	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
PDB rendering basedon 1n26.	