

## Recombinant Human IL6R Protein, C-His-tagged

Cat. No. IL6R-070H Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant Human IL6R Protein with C-His tag was expressed in E. coli.

**Species** Human

**Source** E.coli

**Description** The IL-6 receptor is a heterodimeric complex that consists of a ligand-binding IL-6 receptor  $\alpha$  (IL-6R $\alpha$ ) subunit and a signaling component, gp130. Binding of IL-6 to IL-6R $\alpha$  results in dimerization of receptor with gp130 and subsequent STAT3 activation (1). IL-6R $\alpha$  is cleaved from the cell surface by ADAM17. In humans, soluble IL-6R $\alpha$  is also generated via alternatively spliced mRNA. Soluble IL-6R $\alpha$  binds to IL-6 and can stimulate signaling via membrane bound gp130 in a process known as “trans-signaling”. It is through trans-signaling that IL-6 stimulates cells that do not express membrane bound IL-6R $\alpha$ .

**Molecular Mass** ~38 kDa

**AA Sequence**

LAPRRCPAQEVARGVLTSLPGDSVTLTCPGVEPEDNATVHWVLRKPAAGSHPSRW  
 AGMGRLLLLRSVQLHDSGNYSYRAGRPAAGTVHLLVDVPPEEPQLSCFRKSPLSN  
 VVCEWGRSTPSLTTKAVLLVRKFNQSPAEDFQEPQCQYSQESQKFSCQLAVPEGD  
 SSFYIVSMCVASSVGSKFSKTQTFQGCGILQPDPPANITVTAVARNPRWLSVTWQD  
 PHSWNSSFYRLRFELRYRAERSKTFTTWMVKDLQHHCVIHDAWSGLRHVVQLRAQ  
 EEFGQGEWSEWSPEAMGTPWTESRSPPAENEVSTPMQALTTNKDDDNLFRDSAN  
 ATSLPVQDSSSVPLP

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<b>Purity</b>	Transferred into competent cells and the supernatant was purified by NI column affinity chromatography and the purity is > 85% (by SDS-PAGE).
<b>Notes</b>	For research use only, not for use in diagnostic procedure.
<b>Storage</b>	Store at 4 centigrade short term. Aliquot and store at -20 centigrade long term. Avoid freeze-thaw cycles.
<b>Concentration</b>	≥0.5 mg/mL
<b>Storage Buffer</b>	PBS, 4M Urea, pH7.4

## GENE INFORMATION

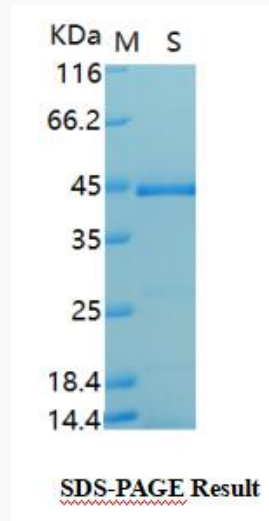
<b>Gene Name</b>	IL6R interleukin 6 receptor [ Homo sapiens (human) ]
<b>Official Symbol</b>	IL6R
<b>Synonyms</b>	IL6R; interleukin 6 receptor; interleukin-6 receptor subunit alpha; CD126; IL-6R 1; CD126 antigen; membrane glycoprotein 80; IL-6 receptor subunit alpha; gp80; IL6RA; IL-6RA; IL-6R-1; MGC104991;
<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

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**SDS-PAGE**



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