

Recombinant Human Interleukin 6 Receptor

Cat. No. IL6R-964H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human sIL-6R produced in <i>E.coli</i> is a 37.6 kDa protein consisting of the extracellular domain of the IL-6R alpha chain (338 amino acid residues).
Species	Human
Source	E.coli
Description	IL-6 mediates its biological effects through the type I IL-6 receptor system that consists of two chains, IL-6R alpha and gp130. The IL-6R alpha chain is the binding component specific to IL-6; while the gp130 only transmits signals of IL-6 when bound to IL-6R alpha. The gp130 also can transmit signals from LIF, OSM, CNTF, IL-11 and CT-1 in conjunction with other receptor subunits. The low-affinity binding site for IL-6 is composed of IL-6R alpha alone. IL-6R alpha is expressed in a wide range of cells including T cells, fibroblasts and macrophages. Soluble IL-6R alpha which consists of only the extracellular domain of the IL-6R alpha chain, acts as an agonist of IL-6 activity at low concentrations.
Purity	> 98% by SDS-PAGE and HPLC analysis.
Endotoxin Level	< 0.1 ng per ug of sIL-6 receptor.
Stabilizer	None.
Formulation	Lyophilized.

 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

Biological Activity	The ED50 was determined by it's ability to intensify the IL-6 induced growth inhibition of murine M1 cells is < 5.0 ng/ml, in the presence of 20 ng/ml of rhIL-6.
Reconstitution	We recommended a quick spin followed by reconstitution in water to a concentration of 0.1-1.0 mg/ml. This solution can be diluted into other aqueous buffers and stored at 4°C for one week or at -20°C for future use.
Stability	The lyophilized protein is stable for a few weeks at room temperature, but best stored at -20°C. Reconstituted human sIL-6R should be stored in working aliquots at -20°C. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	IL6R interleukin 6 receptor [Homo sapiens]
Synonyms	IL6R; interleukin 6 receptor; CD126; IL-6R-1; IL6R-alpha; IL-6R-alpha; IL6RA; MGC104991; OTTHUMP00000034320; gp80; CD126 antigen; IL-6R 1; Interleukin-6 receptor alpha chain precursor; B cell stimulatory factor-2; Membrane glycoprotein 80; interleukin 6 receptor alpha subunit
Gene ID	3570
mRNA Refseq	NM_000565
Protein Refseq	NP_000556
MIM	147880
UniProt ID	P08887
Chromosome	1q21

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Location	
Pathway	Cytokine-cytokine receptor interaction; Hematopoietic cell lineage
Function	ciliary neurotrophic factor binding; ciliary neurotrophic factor receptor activity; enzyme binding; interleukin-6 receptor activity; protein homodimerization activity; receptor binding
PDB rendering based on 1n26.	