

## Active Recombinant Human IL6RA protein

Cat. No. IL6RA-3322H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human IL6RA Protein is produced by HEK293 cells expression system.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Description</b>	IL-6 mediates its biological effects through the type I IL-6 receptor system that consists of two chains, IL-6R $\alpha$ and gp130. While the IL-6R $\alpha$ chain is the binding component specific to IL-6, the gp130 chain only transmits signals of IL-6 when bound to IL-6R $\alpha$ . The gp130 can also 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. Recombinant Human sIL-6R $\alpha$ is a 37.6 kDa protein consisting of the extracellular domain of the IL-6R $\alpha$ chain (339 amino acid residues).
<b>Bio-activity</b>	The ED50 was determined by its ability to intensify the IL-6 induced growth inhibition of murine M1 cells is $\leq$ 5.0 ng/ml, in the presence of 20 ng/ml of rhIL-6.
<b>Molecular Mass</b>	37.6 kDa
<b>AA Sequence</b>	LAPRRCPAQE VARGVLTSLP GDSVTLTCPG VEPEDNATVH WVLRKPAAGS HPSRWAGMGR RLLLRVQLH DSGNYSCYRA GRPAGTVHLL VDVPEEPQL

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SCFRKSPLSN VVCEWGPRST PSLTTKAVLL VRKFQNSPAE DFQEPCQYSQ  
ESQKFSCQLA VPEGDSSFYI VSMCVASSVG SKFSKTQTFQ GCGILQPDPP  
ANITVTAVAR NPRWLSVTWQ DPHSWNSSFY RLRFELRYRA ERSKTFTTWM  
VKDLQHHCVI HDAWSGLRHV VQLRAQEEFG QGEWSEWSPE AMGTPWTESR  
SPPAENEVST PMQALTTNKD DDNILFRDSA NATSLPVQD

**Purity** ≥ 98% by SDS-PAGE gel and HPLC analyses.

**Notes** Not for human use.

## GENE INFORMATION

**Synonyms** soluble IL-6 receptor alpha; B cell stimulatory factor-2; CD126;

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