Active Recombinant Human IL6RA protein

Cat. No. IL6RA-3324H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human IL6RA Protein is produced by CHO cells expression system.
Species	Human
Source	CHO
Description	IL-6 mediates its biological effects through the type I IL-6 receptor system that consists of two chains, IL-6Rα and gp130. While the IL-6Rα chain is the binding component specific to IL-6, the gp130 chain only transmits signals of IL-6 when bound to IL-6Rα. 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-6Rα alone. IL-6Rα is expressed in a wide range of cells, including T cells, fibroblasts and macrophages. Soluble IL-6Rα, which consists of only the extracellular domain of the IL-6Rα chain, acts as an agonist of IL-6 activity at low concentrations. The CHO cell-derived Recombinant Human sIL-6 Receptor α is a 37.9 kDa glycoprotein corresponding to 339 amino acid residues of the extracellular domain of IL-6Rα. As a result of glycosylation, Recombinant Human sIL-6 Receptor α migrates with an apparent molecular mass of approximately 57-70 kDa by SDS-PAGE gel, under reducing conditions.
Bio-activity	Determined by its ability to intensify the IL-6 induced growth inhibition of mouse M1 cells. The expected ED50 is ≤ 5.0 ng/ml, in the presence of 20 ng/ml of rhIL-6.
Molecular Mass	37.9 kDa

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AA Sequence	LAPRRCPAQE VARGVLTSLP GDSVTLTCPG VEPEDNATVH WVLRKPAAGS HPSRWAGMGR RLLLRSVQLH DSGNYSCYRA GRPAGTVHLL VDVPPEEPQL 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	≥ 95% 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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