sIL-6Ralpha Human HEK293 cells

Product Data Sheet

Type: Recombinant
Source: HEK293 cells
Species: Human
Other names: soluble IL-6 receptor alpha, B cell stimulatory factor-2, CD126

Cat. No.:

RBG10006SRA005	(5 µg)
RBG10006SRA020	(20 µg)
RBG10006SRA100	(100 µg)

Description

IL-6 mediates its biological effects through the type I IL-6 receptor system that consists of two chains, IL-6Ralpha and gp130. While the IL-6Ralpha chain is the binding component specific to IL-6, the gp130 chain only transmits signals of IL-6 when bound to IL-6Ralpha. 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-6Ralpha alone. IL-6Ralpha is expressed in a wide range of cells, including T cells, fibroblasts and macrophages. Soluble IL-6Ralpha, which consists of only the extracellular domain of the IL-6Ralpha chain, acts as an agonist of IL-6 activity at low concentrations. Recombinant Human sIL-6Ralpha is a 37.6 kDa protein consisting of the extracellular domain of the IL-6Ralpha chain (339 amino acid residues).

Research topic

Immune Response, Infection and Inflammation

Amino Acid Sequence

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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
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Source

HEK293 cells

Purity

98%

Biological Activity

The ED_{50} was determined by its 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.

Endotoxin

Endotoxin level is <0.1 ng/µg of protein (<1EU/µg).

Reconstitution

Centrifuge the vial prior to opening. Reconstitute in 1× PBS, pH 7.2 to a concentration of 0.1-1.0 mg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

Storage, Stability/Shelf Life

-20°C

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