

Recombinant Human IL6R

Cat. No. IL6R-29271TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full length short soluble form (isoform 2) protein, corresponding to amino acids 20/358 of Human IL6R precursor protein.
Species	Human
Description	This gene encodes a subunit of the interleukin 6 (IL6) receptor complex. Interleukin 6 is a potent pleiotropic cytokine that regulates cell growth and differentiation and plays an important role in the immune response. The IL6 receptor is a protein complex consisting of this protein and interleukin 6 signal transducer (IL6ST/GP130/IL6-beta), a receptor subunit also shared by many other cytokines. Dysregulated production of IL6 and this receptor are implicated in the pathogenesis of many diseases, such as multiple myeloma, autoimmune diseases and prostate cancer. Alternatively spliced transcript variants encoding distinct isoforms have been reported. A pseudogene of this gene is found on chromosome 9.
Tissue specificity	Isoform 2 is expressed in peripheral blood mononuclear cells and weakly found in urine and serum.
Form	Lyophilised:Reconstitute to 1mg/ml in distilled water.
Purity	>95% by SDS-PAGE
Storage	The lyophilized protein is stable for a few weeks at room temperature, but best stored at -20°C.

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Sequences of amino acids

LAPRRCPAQE VARGVLTSLP GDSVTLTCPG VEPEDNATVH WVLRKPAAGS
 HPSRWAGMGR RLLLRVQLH ASGNYSYRA GRPAGTVHLL VDVPEEPQL
 SCFRKSPLSN VVCEWGPRST PSLTTKAVLL VRKFQNSPAE DFQEPCQYSQ
 ESQKFSCQLA VPEGDSSFYI VSMCVASSVG SKFSKTQTFQ GCGILQPAPP
 ANITVTAVAR NPRWLSVTWQ DPHSWNSSFY RLRFELRYRA ERSKTFTTWM
 VKDLQHHCVI HDAWSGLRHV VQLRAQEEFG QGEWSEWSPE AMGTPWTESR
 SPPAENEVST PMQALTTNKD DDNILFRDSA NATSLPVQD

Sequence Similarities

Belongs to the type I cytokine receptor family. Type 3 subfamily. Contains 1 fibronectin type-III domain. Contains 1 Ig-like C2-type (immunoglobulin-like) domain.

Full Length

Full L.

GENE INFORMATION

Gene Name

IL6R interleukin 6 receptor [Homo sapiens]

Official Symbol

IL6R

Synonyms

IL6R; interleukin 6 receptor; interleukin-6 receptor subunit alpha; CD126;

Gene ID

3570

mRNA Refseq

NM_000565

Protein Refseq

NP_000556

MIM

147880

Uniprot ID

P08887

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Chromosome Location	1q21
Pathway	Cytokine Signaling in Immune system, organism-specific biosystem; Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Hematopoietic cell lineage, organism-specific biosystem; Hematopoietic cell lineage, conserved biosystem;
Function	ciliary neurotrophic factor binding; contributes_to ciliary neurotrophic factor receptor activity; enzyme binding; interleukin-6 binding; contributes_to interleukin-6 receptor activity;

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