

## Recombinant Human IL12RB1, His-tagged

Cat. No. IL12RB1-62H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human IL12RB1, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
<b>Species</b>	Human
<b>Source</b>	Insect Cells
<b>Description</b>	IL12RB1, also known as Interleukin-12 receptor subunit beta-1, is a intercellular adhesion molecule 1. This protein binds to interleukine 12 (IL12) with a low affinity, and is thought to be a part of IL12 receptor complex. It forms a disulfide-linked oligomer, which is required for its IL12 binding activity. The coexpression of this protein and IL12RB2 was shown to lead to the formation of high-affinity IL12 binding sites and reconstitution of IL12 dependent signaling.
<b>Form</b>	Liquid. In phosphate buffered saline (pH 7.4) containing 20% glycerol, 1mM EDTA, 0.1mM PMSF.
<b>Molecular Mass</b>	58.4kDa (528aa) 50-70kDa (SDS-PAGE under reducing conditions.)
<b>AA Sequence</b>	CRTSECCFQD PPYPDADSGS ASGPRDLRCY RISSDRYECS WQYEGPTAGV SHFLRCCLSS GRCCYFAAGS ATRLQFSDQA GVSVLYTVTL WVESWARNQT EKSPEVTLQL YNSVKYEPPL GDKVSKLAG QLRMEWETPD NQVGAEVQFR H RTPSSPWKL GDCGPQDDDT ESCLCPELMN VAQEFQLRRR QLGSQGSSWS KWSSPVCVPP ENPPQPQVRF SVEQLGQDGR RRLTLKEQPT QLELPEGCQG LAPGTEVTYR LQLHMLSCPC KAKATRTLHL GKMPYLSGAA YNVAVISSNQ

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FGPGLNQTWH IPADTHTEPV ALNISVGTNG TTMYPARAQ SMTYCIEWQP  
 VGQDGLATC SLTAPQDPDP AGMATYSWSR ESGAMGQEK YITIFASAH  
 PEKLTWSTV LSTYHFGGNA SAAGTPHHVS VKNHSLDSVS VDWAPSLST  
 CPGVLKEYVV RCRDEDSKQV SEHPVQPTET QVTLGSLRAG VAYTVQVRAD  
 TAWLRGVWSQ PQRFSIEVQV SDHHHHHH

**Endotoxin** < 1.0 eu per 1 microgram of protein (determined by lal)

**Purity** >90% by SDS - PAGE.

**Storage** Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

**Concentration** 0.25mg/ml (determined by Bradford assay)

## GENE INFORMATION

**Gene Name** [IL12RB1 interleukin 12 receptor, beta 1 \[ Homo sapiens \]](#)

**Official Symbol** IL12RB1

**Synonyms** IL12RB1; interleukin 12 receptor, beta 1; IL12RB; interleukin-12 receptor subunit beta-1; CD212; IL-12RB1; IL-12R-beta-1; IL-12R subunit beta-1; IL-12 receptor beta component; IL-12 receptor subunit beta-1; interleukin-12 receptor beta-1 chain; IL-12R-BETA1; MGC34454;

**Gene ID** [3594](#)

**mRNA Refseq** [NM\\_005535](#)

**Protein Refseq** [NP\\_005526](#)

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<b>MIM</b>	601604
<b>UniProt ID</b>	P42701
<b>Chromosome Location</b>	19p13.1
<b>Pathway</b>	Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; IL12-mediated signaling events, organism-specific biosystem; IL23-mediated signaling events, organism-specific biosystem; IL27-mediated signaling events, organism-specific biosystem; Jak-STAT signaling pathway, organism-specific biosystem; Jak-STAT signaling pathway, conserved biosystem;
<b>Function</b>	cytokine receptor activity; contributes_to interleukin-12 receptor activity; contributes_to interleukin-12 receptor binding; contributes_to interleukin-23 binding; contributes_to interleukin-23 receptor activity; receptor activity;

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