

Recombinant Human IL12RB1, His-tagged

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

SPECIFICATION

Product Overview	Recombinant human IL12RB1, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Species	Human
Source	Insect Cells
Description	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.
Form	Liquid. In phosphate buffered saline (pH 7.4) containing 20% glycerol, 1mM EDTA, 0.1mM PMSF.
Molecular Mass	58.4kDa (528aa) 50-70kDa (SDS-PAGE under reducing conditions.)
AA Sequence	CRTSECCFQD PPYPDADSGS ASGPRDLRCY RISSDRYECS WQYEGPTAGV SHFLRCCLSS GRCCYFAAGS ATRLQFSDQA GVSPLYTVTL WVESWARNQT EKSPEVTLQL YNSVKYEPPL GDIKVSCLAG QLRMEWETPD NQVGAEVQFR HRTSPSPWKL GDCGPQDDDT ESCLCPLEMN VAQEFQLRRR QLGSQGSSWS KWSSPVCVPP ENPPQPQVRF SVEQLGQDGR RRLTLKEQPT QLELPEGCQG LAPGTEVTYR LQLHMLSCPC KAKATRTLHL GKMPYLSGAA YNVAVISSNQ

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FGPGLNQTWH IPADTHTEPV ALNISVGTNG TTMYPARAQ SMTYCIEWQP
 VGQDGGGLATC SLTAPQDPDP AGMATYSWSR ESGAMGQEK YITIFASAH
 PEKLTWSTV LSTYHFGGNA SAAGTPHHVS VKNHSLDSVS VDWAPSLST
 CPGVLKEYVV RCRDEDSKQV SEHPVQPTET QVTLSGLRAG 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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MIM	601604
UniProt ID	P42701
Chromosome Location	19p13.1
Pathway	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;
Function	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;