

# Recombinant Human IL12RB1

**Cat. No.** IL12RB1-8326H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant Human IL12RB1 was expressed in NSO Cells.
<b>Species</b>	Human
<b>Source</b>	Mammalian Cells
<b>Description</b>	Interleukin 12 receptor, beta 1 (IL12RB1), also known as CD212, is a type I transmembrane protein that belongs to the gp130/G-CSF receptor family. It is a common subunit of both the IL-12 and IL-23 receptor complexes which play roles in T cell mediated inflammatory reactions. IL12RB1 binds IL-12 with low affinity and is involved in IL-12 transduction. In association with IL23R, it forms the IL-23 receptor complex which functions in IL-23 signal transduction probably through activation of the Jak-STAT signaling cascade. IL12RB1 is expressed on activated T cells, B cells, NK cells, macrophages, and microglia. Defects in IL12RB1 are generally associated with selective susceptibility to weakly pathogenic mycobacteria and Salmonella species. Two alternatively spliced transcript variants of this gene encoding distinct isoforms have been reported.
<b>Form</b>	This recombinant protein was 0.2 µm filtered and lyophilized from modified Dulbecco's phosphate buffered saline (1X PBS) pH 7.2 – 7.3 with no calcium, magnesium, or preservatives.
<b>Molecular Mass</b>	The predicted molecular weight of Recombinant Human IL-12 Rβ1 is Mr 84.5 kDa (monomer). However, the actual molecular weight as observed by migration on SDS-

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PAGE is Mr 110 kDa.

#### AA Sequence

crtsecc fqdppypdad sgsasgprdl rcyrissdry ecswqyegpt agvshflrcc lssgrccyfa agsatriqfs  
dqagvslyt vtlwveswar nqtekspevt lqlynsvkye pplgdikvsk lagqlrmewe tpdnqvgaev  
qfrhrtpssp wklgdcgpd ddesclpl emnvaqefql rrrqlgsqgs swskwsspvc vppenppqpq  
vrfsvlelqg dgrrrltke qptqlepeg cqglapgtev tyrlqlhmls cpckakatrl lhlgkmpyls  
gaaynvavis snqfgpglnq twhipadtht epvalnisvg tngttmywpa raqsmtycie wqpvgqdggl  
atcsltapqd pdpagmatys wsresgamgq ekcyiyitifa sahpekltlw stvlstyhfg gnasaagtph  
hsvknhsld svsvdwapsl lstcpgvlke yvvrcredes kvvsehvpqp tetqvtslgl ragvaytvqv  
radtawlrqv wsqpqrfsie iegrm dpksc dkthtccppc apellggpsv flfppkpkdt lmisrtpevt  
cvvvdvshed pevknwyvd gvevhnatk preeqynsty rvsvltvlh qdwlngkeyk ckvsnkappa  
piektiskak gqprepqvyt lpsrdelk nqvsltlcvk gfypsdiave wesngqpenn ykttppvlds  
dgsfflyskl tvdkswqqg nvfscsvmhe alhnhytqks lslspgkhhh hhh

#### Endotoxin

<1.0 eu/μg="" as="" determined="" by="" the="" lal="">

#### Purity

>95% by SDS-PAGE and analyzed by silver stain.

#### Storage

This lyophilized protein is stable for six to twelve months when stored desiccated at -20°C to -70°C. After aseptic reconstitution, this protein may be stored at 2°C to 8°C for one month or at -20°C to -70°C in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles.

## 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

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	component; IL-12 receptor subunit beta-1; interleukin-12 receptor beta-1 chain; IL-12R-BETA1; MGC34454;
<b>Gene ID</b>	3594
<b>mRNA Refseq</b>	NM_005535
<b>Protein Refseq</b>	NP_005526
<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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