

# Recombinant Human IL-12 R beta 1/CD212 Protein

Catalog No.: RP00441

## Sequence Information

### Species Gene ID

Human 3594

### Swiss Prot Tags

P42701-1 C-His

### Synonyms

IL-12R-beta-1; IL-12RB1; IL12R;  
IL12RB; CD212; IL-12R subunit  
beta-1; IL-12R-BETA1; MGC34454;  
IL-12R-β-1; IL-12R subunit β-1;  
IL-12R-β1

## Product Information

### Source Purification

HEK293 cells ≥ 95 % as  
determined by  
SDS-PAGE; ≥ 95  
% as determined  
by HPLC.

### Calculated MW Observed MW

58.2 kDa 70-80 kDa

### Endotoxin

< 1 EU/μg of the protein by LAL  
method.

### Formulation

Lyophilized from 0.22 μm filtered  
solution in PBS (pH 7.4). Normally  
8% trehalose is added as  
protectant before lyophilization.

### Reconstitution

Centrifuge the vial before opening.  
Reconstitute to a concentration of  
0.1-0.5 mg/mL in sterile distilled  
water. Avoid vortex or vigorously  
pipetting the protein. For long  
term storage, it is recommended  
to add a carrier protein or stabilizer  
(e.g. 0.1% BSA, 5% HSA, 10% FBS  
or 5% Trehalose), and aliquot the  
reconstituted protein solution to  
minimize free-thaw cycles.

## Background

Human IL12RB1 is an autosomal gene that is essential for mycobacterial disease resistance and T cell differentiation. Lung and T cell IL12RB1 expression is allele-biased, and the extent to which cells express one IL12RB1 allele is unaffected by activation. Furthermore following its expression the IL12RB1 pre-mRNA is processed into either IL12RB1 Isoform 1 (IL12RB1, a positive regulator of IL12 responsiveness) or IL12RB1 Isoform 2 (a protein of heretofore unknown function).

## Basic Information

### Description

Recombinant Human IL-12 R beta 1/CD212 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Cys24-Glu540) of Human IL-12 R beta 1/CD212 (Accession #P42701-1) fused with a C-His tag at the C-terminus.

### Activity

### Shipping

Lyophilized proteins are shipped at ambient temperature.  
Liquid proteins are shipped at frozen temperature with dry ice.  
Upon receipt, store it immediately at the temperature recommended below.

### Storage

Store at -20°C

### Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

## Contact

☎ | 400-999-6126

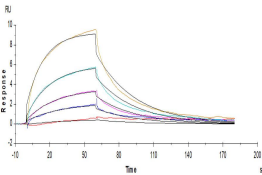
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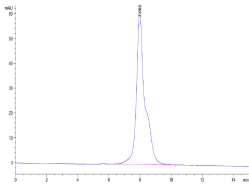
Validation Data



Recombinant Human IL-12 R beta 1/CD212 Protein was determined by Tris-Bis PAGE under reducing conditions.



Human IL-12B, His Tag immobilized on CM5 Chip can bind Human IL-12 R beta 1, His Tag with an affinity constant of 98.1nM as determined in a SPR assay (Biacore T200).



The purity of Human IL-12 R beta 1 is greater than 95% as determined by SEC-HPLC.