

# Mouse IL12A & IL12B (IL12A & IL12B Heterodimer) recombinant protein



Catalog Number: 504627

## General Information

### Protein Construction

A DNA sequence encoding the p35 subunit of mouse IL12, termed as IL12A (P43431) (Met 1-Ala 215) was fused with the Fc region of human IgG1 at the C-terminus, constructed the plasmid 1; A DNA sequence encoding the p40 subunit of mouse IL12, termed as IL12B (P43432) (Met 1-Ser 335) was fused with the Fc region of human IgG1 at the C-terminus, constructed the plasmid 2. The two plasmids were co-expressed and the heterodimer was purified.

### Organism

Mouse

### Expression Host

Human Cells

## QC Testing

### Activity

1. Immobilized mouse mIL12A+mIL12B at 10 µg/ml (100 µl/well) can bind biotinylated human IL12RB1-His (Cat:501974), The EC<sub>50</sub> of biotinylated human IL12RB1-His (Cat:501974) is 38.7-90.3 ng/ml.

2. Measured in a cell proliferation assay using Anti-CD3-stimulated PBMC. The ED<sub>50</sub> for this effect is typically 0.2-0.8 ng/mL.

### Purity

> 85 % as determined by SDS-PAGE

### Endotoxin

< 1.0 EU per µg of the protein as determined by the LAL method

### Stability

Samples are stable for up to twelve months from date of receipt at -70°C

### Predicted N terminal

Arg 23 & Met 23

### Molecular Mass

The recombinant mouse IL12 heterodimer of IL12A/IL12B, both was Fc chimera, comprises 988 (434 + 554) amino acids and has a calculated molecular mass of 111.5 (48.7 + 62.8) kDa. The apparent molecular mass of rh IL12 heterodimer is approximately 55 & 75 kDa respectively in SDS-PAGE under reducing conditions.

### Formulation

Lyophilized from sterile PBS, pH 7.4

1. 5 % trehalose and mannitol are added as protectants before lyophilization.

2. Please contact us for any concerns or special requirements.

## Usage Guide

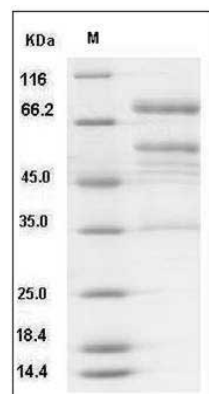
### Storage

Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

### Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

### SDS-PAGE



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Mouse IL-12 (IL12A & IL12B Heterodimer)

Protein SDS-PAGE