

# Mouse IL-12 (IL12A & IL12B Heterodimer) Protein

Catalog Number: CT022-M08H



Sino Biological  
Biological Solution Specialist

## General Information

### Gene Name Synonym:

IL-12a; IL-12b; IL-12p35; IL-12p40; IL12p40; LI12a; p35; p40

### Protein Construction:

A DNA sequence encoding the p35 subunit of mouse IL12, termed as IL12A (P43431) (Met 1-Ala 215) was fused with a polyhistidine tag 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 a polyhistidine tag at the C-terminus, constructed the plasmid 2. The two plasmids were co-expressed and the heterodimer was purified.

**Source:** Mouse

**Expression Host:** HEK293 Cells

## QC Testing

**Purity:** > 90 % as determined by SDS-PAGE

### Bio Activity:

1. Measured by its ability to bind biotinylated recombinant mouse IL12RB2 in a functional ELISA. 2. Measured in a cell proliferation assay using Anti-CD3-stimulated PBMC. The ED<sub>50</sub> for this effect is typically 2-8 ng/mL.

### 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, comprises 528 (204 + 324) amino acids and has a calculated molecular mass of 60.3 (23.1 + 37.2) kDa. The apparent molecular mass of rh IL12 heterodimer is approximately 28 & 47 kDa respectively in SDS-PAGE under reducing conditions.

### Formulation:

Lyophilized from sterile PBS, pH 7.4

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

## Usage Guide

### Storage:

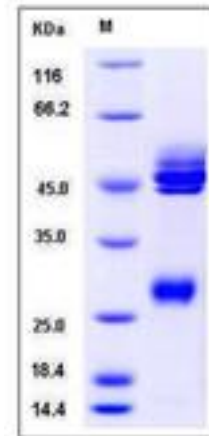
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

**Avoid repeated freeze-thaw cycles.**

### Reconstitution:

Detailed reconstitution instructions are sent along with the products.

## SDS-PAGE:



**Manufactured By Sino Biological Inc., FOR RESEARCH USE ONLY. NOT FOR USE IN HUMANS.**

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