

# Rat IL-23 (IL23A & IL12B Heterodimer) Protein

Catalog Number: CT045-R08H



Sino Biological  
Biological Solution Specialist

## General Information

### Gene Name Synonym:

IL23

### Protein Construction:

A DNA sequence encoding the rat IL23A (NP\_569094.1) (Met1-Ala196) was fused with a polyhistidine tag at the C-terminus, constructed the plasmid 1; A DNA sequence encoding the rat IL12B (EDM04146.1) (Met1-Ser335) was expressed with a polyhistidine tag at the C-terminus, constructed the plasmid 2. The two plasmids were co-expressed and the rat IL23A & the rat IL12B heterodimer was purified.

**Source:** Rat

**Expression Host:** HEK293 Cells

## QC Testing

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

### Bio Activity:

Measured by its ability to induce IL17 secretion by mouse splenocytes.  
The ED50 for this effect is 0.5-3ng/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:** Val 22 & Met 23

### Molecular Mass:

The recombinant rat IL23A & the rat IL12B comprises 510 (186+324) amino acids and has a calculated molecular mass of 58.2 (21+37.2) KDa. The apparent molecular mass of the rat IL23A & the rat IL12B heterodimer is approximately 47.08, 43.29, 27.67 and 24.75 KDa respectively in SDS-PAGE.

### 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:

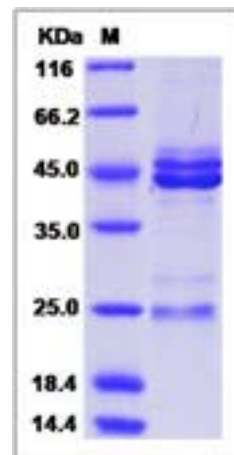
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

### Reconstitution:

Detailed reconstitution instructions are sent along with the products.

## SDS-PAGE:



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