

## General Information

### Gene Name Synonym

Cytotoxic lymphocyte maturation factor 40 kDa subunit; IL-12 subunit p40

### Protein Construction

A DNA sequence encoding the rat IL12B (G3V9Y5) (Met1-Ser335) was expressed with a polyhistidine tag at the C-terminus.

### Organism

Rat

### Expression Host

Human Cells

## QC Testing

### Activity

Measured by its binding ability in a functional ELISA.

Immobilized rat IL12B (cat: 503752) at 10 µg/ml (100 µl/well) can bind biotinylated mouse IL12RB2 (Cat:502566). The EC<sub>50</sub> of biotinylated mouse IL12RB2 (Cat:502566) is 0.6-1.5 µg/ml.

### Purity

(41.7+54.1) % 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

Met 23

### Molecular Mass

The recombinant rat IL12B comprises 324 amino acids and predicts a molecular mass of 37.2 kDa. The apparent molecular mass of the recombinant protein is approximately 47 and 45 kDa in SDS-PAGE under reducing conditions due to glycosylation.

### 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

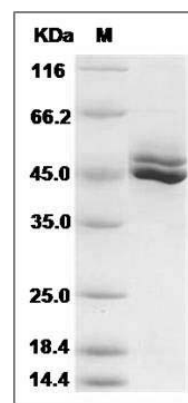
### Storage

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



Rat IL12B / IL-12B Protein (His Tag) SDS-PAGE