Catalog Number: 502964



## **General Information**

#### Gene Name Synonym

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

#### **Protein Construction**

A DNA sequence encoding the mouse IL12B (P43432) (Met 1-Ser 335) was expressed with six amino acids (LEVLFQ) at the C-terminus.

#### Organism

Mouse

## **Expression Host**

Human Cells

## **QC Testing**

#### Activity

1. Measured by its binding ability in a functional ELISA.

2. Immobilized mouse IL12B at  $10\mu g/mL(100\mu L/well)$  can bind biotinylated human IL12RB1-His (Cat:501974). The EC<sub>50</sub> of biotinylated human IL12RB1-His (Cat:501974) is 0.11-0.25 $\mu g/mL$ .

## Purity

> 85 % as determined by SDS-PAGE

#### Endotoxin

< 1.0 EU per  $\mu g$  of the protein as determined by the LAL method

#### Stability

Samples are stable for up to twelve months from date of receipt at  $-70^{\circ}C$ 

## **Predicted N terminal**

Met 23

### **Molecular Mass**

The recombinant mouse IL12B consists of 320 amino acids and has a calculated molecular mass of 36.6 kDa. The recombinant protein migrates as an approximately 46 kDa band 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**

KDa	M	
116	-	
66.2		
45.0		
35.0	-	
25.0	-	
18.4	_	
14.4		

Mouse IL12B / IL-12B Protein SDS-PAGE