

## General Information

### Gene Name Synonym

Cytotoxic lymphocyte maturation factor 35 kDa subunit; IL-12 subunit p35; NK cell stimulatory factor chain 1

### Protein Construction

A DNA sequence encoding the p35 subunit of human IL12, termed as IL12A (NP\_000873.2) (Met1-Ser219) was fused with the C-terminal His-tagged Fc region of human IgG1 at the C-terminus, constructed the plasmid 1; A DNA sequence encoding the human IL27B, (NP\_005746.2) (Met1-Lys229) was fused with the C-terminal flag-tagged 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

Human

### Expression Host

Human Cells

## QC Testing

### Purity

(59.8+33.3) % 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 & Arg 21

## Molecular Mass

The recombinant human IL12A&IL27B comprises 905 (447+458) amino acids and has a calculated molecular mass of 102 (50.7+ 51.3) KDa. The apparent molecular mass of the recombinant human IL12A&IL27B is approximately 60 & 63 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

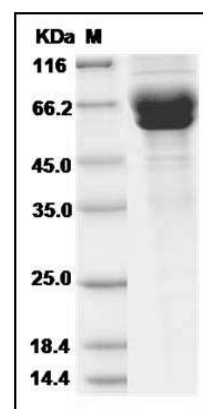
### Storage

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



Human IL12A & IL27B Heterodimer Protein SDS-PAGE