

Mouse IL12A & IL12B (IL12A & IL12B Heterodimer) recombinant protein



Catalog Number: 504628

General Information

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.

Organism

Mouse

Expression Host

Human Cells

QC Testing

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 ED₅₀ for this effect is typically 2-8 ng/mL.

Purity

> 90 % 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 & 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

1. 5 % trehalose and mannitol are added as protectants before lyophilization.
2. Please contact us for any concerns or special requirements.

Usage Guide

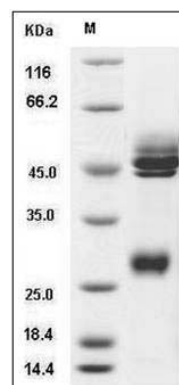
Storage

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



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Protein SDS-PAGE