

Mouse IL-12 (IL12A & IL12B Heterodimer) Protein

Catalog Number: CT024-M0208H



Sino Biological
Biological Solution Specialist

General Information

Gene Name Synonym:

IL-12a; IL-12b; IL-12p35; IL-12p40; IL12a; p35; p40

Protein Construction:

A DNA sequence encoding the p35 subunit of mouse IL12, termed as IL12A (P43431) (Met 1-Ala 215) was fused with the Fc region of human IgG1 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.

Source: Mouse

Expression Host: HEK293 Cells

QC Testing

Purity: > 85 % as determined by SDS-PAGE

Bio Activity:

1. Measured by its binding ability in a functional ELISA. Immobilized mouse IL12RB2-His at 10 µg/ml (100 µl/well) can bind Mouse IL12A & IL12B Heterodimer Protein (Cat:CT024-M0208H). The EC_{50} of Mouse IL12A & IL12B Heterodimer Protein (Cat:CT024-M0208H) is 50.2-117.2 ng/ml. 2. Measured in a cell proliferation assay using anti-CD3 antibody activated human peripheral blood mononuclear cell (PBMC). The ED_{50} for this effect is typically 0.2-2 ng/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: Arg 23 & Met 23

Molecular Mass:

The recombinant mouse IL12 heterodimer of IL12A/IL12B, IL12A is Fc chimera, comprises 758 (434 + 324) amino acids and has a calculated molecular mass of 85.9 (48.7 + 37.2) kDa. The apparent molecular mass of rh IL12 heterodimer is approximately 55 & 45 kDa respectively in SDS-PAGE under reducing conditions.

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:

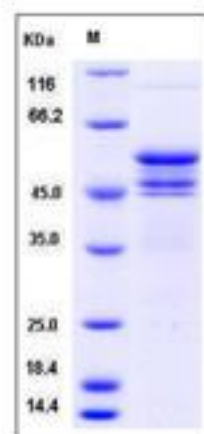
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



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