

Mouse IL-12 (IL12A & IL12B Heterodimer) Protein

Catalog Number: CT021-M02H



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 the Fc region of human IgG1 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. immobilized Mouse IL12RB2 (His Tag)(Cat:50099-M08H) at 2 µg/mL (100 µL/well) can bind Mouse IL-12 (hFc Tag)(Cat: CT021-M02H), the EC₅₀ is 30-340 ng/mL.
2. Measured by its ability to induce Interferon gamma secretion by human natural killer lymphoma NK-92 cells. The ED₅₀ for this effect is 0.1-0.8 µg/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, both was Fc chimera, comprises 988 (434 + 554) amino acids and has a calculated molecular mass of 111.5 (48.7 + 62.8) kDa. The apparent molecular mass of rh IL12 heterodimer is approximately 55 & 75 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:

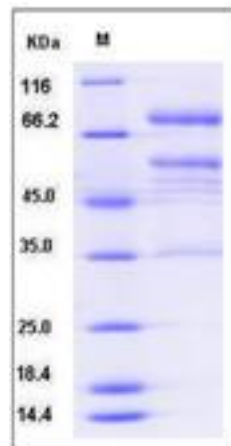
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



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