

Active Recombinant Mouse IL12A & IL12B protein(Met1-Ala215 & Met1-Ser335), His&hFc-tagged

Cat. No. IL12A & IL12B-1385M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant 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; Recombinant 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 and expressed in HEK293.
Species	Mouse
Source	HEK293
Protein Length	Met1-Ala215 & Met1-Ser335
Form	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
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. The EC50 of Mouse IL12A & IL12B Heterodimer Protein is 50.2-117.2 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 typically 1-5ng/mL.
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

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approximately 55 & 45 kDa respectively in SDS-PAGE under reducing conditions.

Endotoxin < 1.0 EU per µg of the protein as determined by the LAL method

Purity > 85 % as determined by SDS-PAGE

Storage Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. 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 It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name [IL12a interleukin 12a \[Mus musculus \]](#)

Official Symbol [IL12A; IL12B](#)

Synonyms IL12A; interleukin 12a; interleukin-12 subunit alpha; CLMF p35; IL-12 subunit p35; interleukin 12a p35 subunit; cytotoxic lymphocyte maturation factor 35 kDa subunit; p35; LI12a; IL-12a; IL-12p35; MGC151228; MGC151232;

Gene ID [16159](#)

mRNA Refseq [NM_001159424](#)

Protein Refseq [NP_001152896](#)

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