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

Cat. No. IL12A & IL12B-1172M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse IL12, termed as IL12A (P43431) (Met 1-Ala 215) was fused with a polyhistidine tag at the C-terminus, constructed the plasmid 1; Recombinant 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 in HEK293.
Species	Mouse
Source	HEK293
ProteinLength	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 ability to mouse IL12RB2-His in a functional ELISA. 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 15-90 ng/mL.
Molecular Mass	The recombinant mouse IL12 heterodimer of IL12A/IL12B, IL12B is Fc chimera, comprises 758 (204 + 554) amino acids and has a calculated molecular mass of 85.9 (23.1 + 62.8) kDa. The apparent molecular mass of rh IL12 heterodimer is approximately 28 & 75 kDa respectively in SDS-PAGE under reducing conditions.

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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
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; Ll12a; Il-12a; IL-12p35; MGC151228; MGC151232;
Gene ID	16159
mRNA Refseq	NM_001159424
Protein Refseq	NP_001152896

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