

Active Recombinant Mouse IL12A & IL12B Protein, His-tagged

Cat. No. IL12A & IL12B-1243M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant 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; Recombinant p40 subunit of mouse IL12, termed as IL12B (P43432) (Met 1-Ser 335) was fused with
Species	Mouse
Source	HEK293
ProteinLength	1-215;1-335 a.a.
Predicted N Terminal	Arg 23 & Met 23
Form	Lyophilized from sterile PBS, pH 7.4, 5%~8% trehalose and mannitol.
Bio-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.
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.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.

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Purity	>90 % as determined by SDS-PAGE.
Stability	Samples are stable for up to twelve months from date of receipt at -70°C.
Storage	Store it under sterile conditions at -20°C~-70°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 0.25 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name	IL12a interleukin 12a [<i>Mus musculus</i>]
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; LI12a; IL-12a; IL-12p35; MGC151228; MGC151232;
Gene ID	16159
mRNA Refseq	NM_001159424
Protein Refseq	NP_001152896
MIM	
UniProt ID	
Pathway	African trypanosomiasis, organism-specific biosystem; African trypanosomiasis, conserved biosystem; Allograft rejection, organism-specific biosystem; Allograft

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rejection, conserved biosystem; Amoebiasis, organism-specific biosystem;
Amoebiasis, conserved

Function

contributes_to cytokine activity; cytokine activity; growth factor activity; interleukin-12
beta subunit binding; interleukin-12 receptor binding; interleukin-27 binding; protein
heterodimerization activity;

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