

# Active Recombinant Mouse IL12A & IL12B Protein, Fc & His-tagged

**Cat. No.** IL12A & IL12B-1244M    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	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
<b>Species</b>	Mouse
<b>Source</b>	HEK293
<b>ProteinLength</b>	1-215;1-335 a.a.
<b>Predicted N Terminal</b>	Arg 23 & Met 23
<b>Form</b>	Lyophilized from sterile PBS, pH 7.4, 5%~8% trehalose and mannitol.
<b>Bio-activity</b>	1. Measured by its ability to mouse IL12RB2-His in a functional ELISA. 2. Measured in a cell proliferation assay using Anti-CD3-stimulated PBMC. The ED50 for this effect is typically 0.2-1 ng/mL.
<b>Molecular Mass</b>	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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<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Purity</b>	>85 % as determined by SDS-PAGE.
<b>Stability</b>	Samples are stable for up to twelve months from date of receipt at -70°C.
<b>Storage</b>	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.
<b>Reconstitution</b>	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

<b>Gene Name</b>	IL12a interleukin 12a [ <i>Mus musculus</i> ]
<b>Official Symbol</b>	IL12A
<b>Synonyms</b>	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;
<b>Gene ID</b>	16159
<b>mRNA Refseq</b>	NM_001159424
<b>Protein Refseq</b>	NP_001152896
<b>MIM</b>	
<b>UniProt ID</b>	

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**Pathway**

African trypanosomiasis, organism-specific biosystem; African trypanosomiasis, conserved biosystem; Allograft rejection, organism-specific biosystem; Allograft 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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