

Active Recombinant Mouse IL12A & IL12B Heterotrimer Protein (Met1-Ala215 & Met1-Ser335), HlgG1 Fc-tagged

Cat. No. IL12-1031M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse IL12A & IL12B Heterotrimer Protein (P43431)(Met1-Ala215) & (P43432)(Met1-Ser335) was produced by HEK293 Cells expression system. This protein was fused with the Fc region of human IgG1 at the C-terminus, constructed the plasmid. The two plasmids were co-expressed and the heterodimer was purified.
Species	Mouse
Source	HEK293
ProteinLength	Met1-Ala215 & Met1-Ser335
Predicted N Terminal	Arg 23 & Met 23
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. Immobilized mouse mIL12A+mIL12B at 10 µg/ml (100 µl/well) can bind biotinylated human IL12RB1-His, The EC50 of biotinylated human IL12RB1-His is 38.7-90.3 ng/ml. 2. Measured in a cell proliferation assay using Anti-CD3-stimulated PBMC. The ED50 for this effect is typically 0.2-0.8 ng/mL.
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

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	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.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method
Purity	> 85 % as determined by SDS-PAGE
Stability	Samples are stable for up to twelve months from date of receipt at -70 centigrade.
Storage	Store it under sterile conditions at -20 centigrade to -80 centigrade. 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 mg/ml. Centrifuge the vial at 4°C before opening to recover the entire contents.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

GENE INFORMATION

Gene Name	Il12a interleukin 12a [Mus musculus] & Il12b interleukin 12b [Mus musculus]
Official Symbol	IL12A & IL12B
Synonyms	IL12A; CLMF p35; p35; LI12a; IL-12a; IL-12p35; MGC151228; MGC151232 & IL12B; CLMF p40; IL-12 p40; IL-12 subunit p40; IL-23 subunit p40; p40; IL-12b; Il12p40; IL-12p40;

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Gene ID	16159 & 16160
mRNA Refseq	NM_001159424 & NM_008352
Protein Refseq	NP_001152896 & NP_032378
UniProt ID	P43431 & P43432

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