

Active Recombinant Mouse interleukin 12 Protein, Flag tagged

Cat. No. II12b-175M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse IL-12B protein (P43432) (Met 23-Ser 335) and mouse IL-12A protein (P43431) (Arg 23-Ala 215) linked by a GSGSSRGGSGSGGGGGGSK linker with a Flag tag at the C-terminus was expressed in HEK293.
Species	Mouse
Source	HEK293
ProteinLength	IL-12B: 23-335aa IL-12A: 23-215aa
Description	Cytokine that can act as a growth factor for activated T and NK cells, enhance the lytic activity of NK/lymphokine-activated killer cells, and stimulate the production of IFN-gamma by resting PBMC. Associates with IL23A to form the IL-23 interleukin, a heterodimeric cytokine which functions in innate and adaptive immunity. IL-23 may constitute with IL-17 an acute response to infection in peripheral tissues. IL-23 binds to a heterodimeric receptor complex composed of IL12RB1 and IL23R, activates the Jak-Stat signaling cascade, stimulates memory rather than naive T-cells and promotes production of pro-inflammatory cytokines. IL-23 induces autoimmune inflammation and thus may be responsible for autoimmune inflammatory diseases and may be important for tumorigenesis.
Tag	C-Flag
Bio-activity	Measured by its ability to induce Interferon gamma secretion by human natural killer

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lymphoma NK-92 cells. The ED50 for this effect is typically 15-90 ng/mL.

Molecular Mass 60.6 kDa

Endotoxin Less than 1.0 EU/μg by the LAL method.

Purity >95% as determined by SDS-PAGE.

Storage Please avoid repeated freeze-thaw cycles. Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade. It is recommended that aliquot the reconstituted solution to minimize freeze-thaw cycles.

Storage Buffer Lyophilized from a 0.2 μm filtered solution of PBS, pH7.4, 5% Trehalose, 5% mannitol.

Reconstitution Reconstitute at 250 μg/mL in sterile water.

GeneID 2 [16159](#)

GENE INFORMATION

Gene Name [IL12b interleukin 12b \[Mus musculus \(house mouse\) \]](#)

Official Symbol [IL12b](#)

Synonyms IL12B; interleukin 12b; interleukin-12 subunit beta; CLMF p40; IL-12 p40; IL-12 subunit p40; IL-23 subunit p40; cytotoxic lymphocyte maturation factor 40 kDa subunit; p40; Il-12b; Il12p40; Il-12p40;

Gene ID [16160](#)

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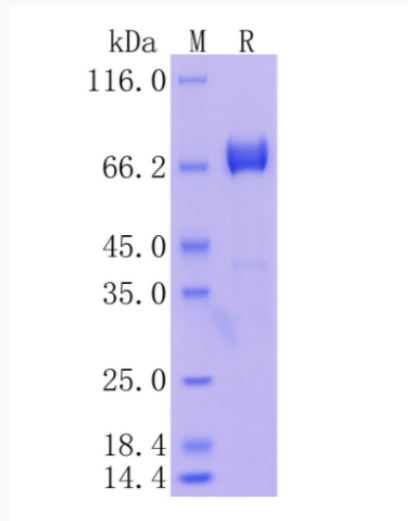
mRNA Refseq	NM_008352
Protein Refseq	NP_032378
UniProt ID	P43432
Gene Name 2	Il12a interleukin 12a [Mus musculus (house mouse)]
Official Symbol 2	IL12A
Synonyms 2	IL12A; interleukin 12a; interleukin-12 subunit alpha; CLMF p35; IL-12 subunit p35; interleukin 12a p35 subunit; cytotoxic lymphocyte maturation factor 35 kDa subunit; p35; LI12a; Il-12a; IL-12p35; MGC151228; MGC151232;
mRNA Refseq 2	NM_001159424
Protein Refseq 2	NP_001152896
UniProt ID 2	P43431

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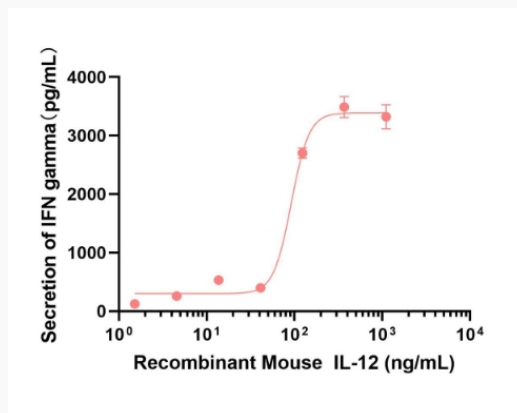
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Protein on SDS-PAGE under reducing (R) condition.



Activity



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.

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