

Recombinant Mouse Il12 Protein, Fc tagged

Cat. No. II12a-086M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The mouse IL-12 complex composed of the p40 subunit (aa 1-335) and the p35 subunit (aa 23-215) fused through a polypeptide linker to the Fc region of human IgG1 was expressed in CHO.
Species	Mouse
Source	CHO
ProteinLength	p40 subunit: 1-335 aa p35 subunit: 23-215 aa
Description	Enables interleukin-12 beta subunit binding activity. Contributes to cytokine activity. Acts upstream of or within several processes, including T-helper 1 cell activation; defense response to protozoan; and positive regulation of T cell activation. Located in cell surface; cytoplasm; and extracellular space. Part of interleukin-12 complex. Is expressed in brain; lung; small intestine; testis; and thymus. Human ortholog(s) of this gene implicated in hepatitis C; hepatocellular carcinoma; and primary biliary cholangitis. Orthologous to human IL12A (interleukin 12A).
Form	Lyophilized from 0.2µm filtered solution in PBS.
Molecular Mass	~100-110 kDa (SDS-PAGE, reducing conditions)
Endotoxin	<0.06 EU/µg protein (LAL test).
Purity	≥98% (SDS-PAGE)

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Notes	Avoid freeze/thaw cycles. Centrifuge lyophilized vial before opening and reconstitution.
Storage	Short Term Storage: +4 centigrade Long Term Storage: -20 centigrade Stable for at least 1 year after receipt when stored at -20 centigrade. Working aliquots are stable for up to 3 months when stored at -20 centigrade.
Shipping	BLUE ICE
Reconstitution	Reconstitute at 100 µg/mL in sterile PBS.

GENE INFORMATION

Gene Name	Il12a interleukin 12a [<i>Mus musculus</i> (house mouse)]
Official Symbol	Il12a
Synonyms	Il12a; interleukin 12a; p35; LI12a; Il-12a; IL-12p35;
Gene ID	16159
mRNA Refseq	NM_008351
Protein Refseq	NP_032377
UniProt ID	P43431
Gene Name 2	Il12b interleukin 12b [<i>Mus musculus</i> (house mouse)]
Official Symbol 2	Il12b

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Synonyms 2 IL12b; interleukin 12b; p40; IL-12b; IL12p40; IL-12p40; interleukin-12 subunit beta; CLMF p40; IL-12 p40 subunit; IL-12 subunit p40; IL-23 subunit p40; cytotoxic lymphocyte maturation factor 40 kDa subunit; interleukin-12 p40 subunit

Gene ID 2 16160

mRNA Refseq 2 NM_001303244

Protein Refseq 2 NP_001290173

UniProt ID 2 P43432

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