

Active Recombinant Mouse Il12b Protein

Cat. No. Il12b-257I **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Il12b Protein without tag was expressed in CHO.
Species	Mouse
Source	CHO
Description	Interleukin-12 (IL-12), also known as NKSF, TCMF, CLMF and TSF, is a heterodimeric cytokine composed of p35 and p40 subunits. It is produced by monocytes, macrophages, B cells and dendritic cells in response to bacterial lipopolysaccharides and intracellular pathogens. IL-12 signals through the IL-12 receptor complex, which is comprised of IL-12 R β 1 and IL-12 R β 2. IL-12 induces the proliferation and activation of hematopoietic stem cells, natural killer cells and T- cells. It is indispensable during the development of Th1 cells, leading to the production of IFN-gamma and IL-2.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	ED50 < 0.15 ng/mL, measured in a cell proliferation assay using 2D6 cells.
Molecular Mass	27-29 kDa (p35) and 45-50 kDa (p40), observed by reducing SDS-PAGE.
AA Sequence	p35:RVIPVSGPARCLSQSRNLLKTTDDMVKTAREKLKHYSCTAEDIDHEDITRDQTST LKTCLPLELHKNESCLATRETSSTTRGSCLPQKTSMMTLCLGSIYEDLKMYQTEF QAINAALQNHNHQQIILDKGMLVAIDELMQSLNHNGETLRQKPPVGEADPYRVKMKL CILLHAFSTRVVTINRVMGYLSSA

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p40:MWELEKDVYVVEVDWTPDAPGETVNLTCDTPEEDDITWTSDQRHGVIGSGKTL
TITVKEFLDAGQYTCHKGGETLSHSHLLHKKENGIWSTEILKNFKNKTLKCEAPNY
SGRFTCSWLVRNMDLKFNIKSSSSSPDSRAVTCGMASLSAEKVTLQDRDYEKYSV
SCQEDVTCPTAEETLPIELALEARQQNKYENYSTSFFIRDIIKPDPPKNLQMKPLKNS
QVEVSWEYPDSWSTPHSYFSLKFFVRIQRKKEKMKETEEGCNQKGAFLVEKTSTEV
QCKGGNVCVQAQDRYYNSSCSKWACVPCRVR

Endotoxin < 0.2 EU/μg, determined by LAL method.

Purity > 95% as analyzed by SDS-PAGE.

Storage Lyophilized recombinant murine Interleukin-12 (IL-12), remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, murine Interleukin-12 (IL-12), His should be stable up to 1 week at 4 centigrade or up to 2 months at -20 centigrade.

Storage Buffer Lyophilized after extensive dialysis against PBS.

Reconstitution Reconstituted in ddH₂O or PBS at 100 μg/mL.

GENE INFORMATION

Gene Name *Il12b* interleukin 12b [*Mus musculus*]

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

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