

Active Recombinant Rat IL12 Protein, His-tagged

Cat. No. IL12-258I **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat IL12 Protein with a His tag was expressed in CHO.
Species	Rat
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< 0.1 ng/mL, measured in a cell proliferation assay using 2D6 cells.
Molecular Mass	26-28kDa (p35) and 42-45 kDa (p40), observed by reducing SDS-PAGE.
AA Sequence	p35:RVIPVSGPAKCLNQSQNLLKTTDDMVRTAREKCLKHYSCTAGDIDHEDITRDKTS TLEACLPLELHKNESCLATKETSSIIRGSCLPQKTSMMTLCLGSIYEDLKMYQSEF QAINAALQSHNHQQITLDRNMLMAIDELMRSLNHSGETLHQKAPMGADPYRVKMK LCILLHAFSTRVMTINRVMNYLSSSHHHHHH

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p40:MWELEKDVYVVEVDWRPDAPGETVTLTCDSPEEDDITWTSDQRRGVIGSGKTL
TITVREFLDAGQYTCHRGGETLSHSHLLHKKENGIWSTEILKNFKNKTKFLKCEAPNY
SGRFTCSWLVRNTDLKFNKSSSSSPESRAVTCGRASLSAEKVTLNQRDYEKYSV
ACQEDVTCPTAEETLPIELVVEAQQQNKYENYSTSFFIRDIIKPDPPKNLQVKPLKNS
QVEVSWEYPDSWSTPHSYFSLKFFVRIQRKKEKTKETEEECNQKGAFLVEKTSAEV
QCKGANICVQAQDRYYNSSCSKWTCVPCRGRS

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

Purity > 95% as analyzed by SDS-PAGE.

Storage Lyophilized recombinant rat Interleukin-12 (IL-12), His remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, rat 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 [IL12 Interleukin 12 \[Rattus norvegicus \]](#)

Official Symbol [IL12](#)

Synonyms IL12; Interleukin 12;

Gene ID [64546](#)

mRNA Refseq [NM_022611](#)

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Protein Refseq	NP_072133
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UniProt ID	E9PU71
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