

## Active Recombinant Rat Il12 Protein, His-tagged

Cat. No. II12-258I Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Rat Il12 Protein with a His tag was expressed in CHO.
<b>Species</b>	Rat
<b>Source</b>	CHO
<b>Description</b>	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 $\beta$ 1 and IL-12 R $\beta$ 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.
<b>Form</b>	Sterile Filtered White lyophilized (freeze-dried) powder.
<b>Bio-activity</b>	ED50 < 0.1 ng/mL, measured in a cell proliferation assay using 2D6 cells.
<b>Molecular Mass</b>	26-28kDa (p35) and 42-45 kDa (p40), observed by reducing SDS-PAGE.
<b>AA Sequence</b>	p35:RVIPVSGPAKCLNQSQNLLKTTDDMVRTAREKCLKHYSCTAGDIDHEDITRDKTS TLEACLPLELHKNESCLATKETSSIIRGSCLPQKTSMMTLCLGSIYEDLKMYQSEF QAINAALQSHNHQQITLDRNMLMAIDELMRSLNHSGETLHQKAPMGADPYRVKMK LCILLHAFSTRVMTINRVMNYLSSSHHHHHH

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p40:MWELEKDVYVVEVDWRPDAPGETVTLTCDSPEEDDITWTSDQRRGVIGSGKTL  
 TITVREFLDAGQYTCHRGGETLSHSHLLLHKKENGIWSTEILKNFKNKTKFLKCEAPNY  
 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 ddH<sub>2</sub>O 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

**UniProt ID** E9PU71

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