

## Active Recombinant Rat IL12 protein, His-tagged

Cat. No. IL12-27R Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Rat Interleukin-12 is expressed in CHO cells and the target gene encoding Met23-Ser335(p40)&Arg23-Ser215(p35) is expressed with a 6His tag at the C-terminus.
<b>Species</b>	Rat
<b>Source</b>	Mammalian Cells
<b>ProteinLength</b>	23-335;23-215 a.a.
<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>	Lyophilized after extensive dialysis against PBS.
<b>Bio-activity</b>	ED50< 0.1ng/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.

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**AA Sequence**

p35:RVIPVSGPAKCLNQSQNLLKTDDMVRTAREKCLKHYSCTAGDIDHEDITRDKTS  
 TLEACLPLELHKNESCLATKETSSIIIRGSCCLPPQKTSMMTLCLGSIYEDLKMYQSEF  
 QAINAALQSHNHQQITLDRNMLMAIDELMRSLNHSGETLHQKAPMGEADPYRVKMK  
 LCILLHAFSTRVMTINRVMNYLSSSHHHHHH

p40: MWELEKDVYV VEVDWRPDAP GETVTLTCDSP EEDDITWTS DQRRGVIGSG  
 KTLTITVREF LDAGQYTCHR GGETLSHSHL LLHKKENGIW STEILKNFNKTKFLKCE  
 APN YSGRFTCSWLVHRNTDLKFNKSSSSSPESRAVTCGRASLSAEKVTLNQRDYE  
 KYSVACQEDVTCPTAEETLPIELVVEAQQQNKYENYSTSFFIRDIIKPDPPKNLQVKP  
 LKNSQVEVS WEYPDSWSTPHSYFSLKFFVRIQRKKEKTKETEEECNQKGAFLVEKT  
 SAEVQCKGANICVQAQDRYNNSSCSKWTCVPCRGRS

**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.

**Reconstitution** Reconstituted in ddH<sub>2</sub>O or PBS at 100 μg/ml.

## GENE INFORMATION

**Gene Name** interleukin 12A [ *Rattus norvegicus* ]

**Official Symbol** IL12A

**Synonyms** Interleukin-12; IL-12; IL12A

**Gene ID** 84405

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mRNA Refseq [NM\\_053390.1](#)

Protein Refseq [NP\\_445842.1](#)

UniProt ID [Q9R103](#)

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