

Active Recombinant Rat IL12 protein, His-tagged

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

SPECIFICATION

Product Overview	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.
Species	Rat
Source	Mammalian Cells
ProteinLength	23-335;23-215 a.a.
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	Lyophilized after extensive dialysis against PBS.
Bio-activity	ED50< 0.1ng/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.

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AA Sequence

p35:RVIPVSGPAKCLNQSQNLLKTDDMVRTAREKCLKHYSCTAGDIDHEDITRDKTS
 TLEACLPLELHKNESCLATKETSSIIRGSCLPQKTSMMTLCLGSIYEDLKMYQSEF
 QAINAALQSHNHQQITLDRNMLMAIDELMRSLNHSGETLHQKAPMGEADPYRVKMK
 LCILLHAFSTRVMTINRVMNYLSSSHHHHHH

p40: MWELEKDVYV VEVDWRPDAP GETVTLTCDS PEEDDITWTS DQRRGVIGSG
 KTLTITVREF LDAGQYTCHR GGETLSHSHL LLHKKENGIW STEILKNFKNKTFLKCE
 APN YSGRFTCSWLVRNTDLKFNKSSSSSPESRAVTCGRASLSAEKVTLNQRDYE
 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 ddH₂O 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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