

## Overview

<b>Synonyms</b>	NKSF, TCMF, CLMF, TSF
<b>Description</b>	<b>Interleukin-12 (IL-12)</b> , 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 <sup>2</sup> 1 and IL-12 R <sup>2</sup> 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>Species</b>	Rat
<b>Source</b>	CHO
<b>Biological Activity</b>	ED <sub>50</sub> < 0.1ng/ml, measured in a cell proliferation assay using 2D6 cells.
<b>Sequence</b>	<p>p35:</p> <p>RVIPVSGPAK CLNQSQNLLK TTDDMVRTAR EKLKHYSCTA GDIDHEDITR DKTSTLEACL PLELHKNESEC  LATKETSSII RGSCLPPQKT SLMMTLCLGS IYEDLKMYQS EFQAINAALQ SHNHQQITLD RNMLMAIDEL  MRSLNHSGET LHQKAPMGEA DPYRVKMKLC ILLHAFSTRV MTINRVMNYL SSSHHHHHH</p> <p>p40:</p> <p>MWELEKDVVY VEVDWRPDAP GETVTLTCDG PEEDDITWTS DQRRGVIGSG KTLTITVREF LDAGQYTCHR  GGETLSHSHL LLHKKENGIW STEILKNFKN KTFLKCEAPN YSGRFTCSWL VHRNTDLKFN IKSSSSSPES  RAVTCGRASL SAEKVTLNQR DYEKYSVACQ EDVTCPTAEE TLPIELVVEA QQNKYENYS TSFFIRDIK  PDPPKNLQVK PLKNSQVEVS WEYPDSWSTP HSYFSLKFFV RIQRKKEKTK ETEEECNQKG AFLVEKTSAE  VQCKGANICV QAQDRYYNSS CSKWTCVPCR GRS</p>

## Properties

<b>Measured Molecular Weight</b>	26-28kDa (p35) and 42-45 kDa (p40), observed by reducing SDS-PAGE.
<b>Purity</b>	> 95% as analyzed by SDS-PAGE.
<b>Formulation</b>	Lyophilized after extensive dialysis against PBS.
<b>Reconstitution</b>	Reconstituted in ddH <sub>2</sub> O or PBS at 100 µg/ml.
<b>Endotoxin Level</b>	<0.2 EU/µg, determined by LAL method.
<b>Storage</b>	Lyophilized recombinant <b>rat Interleukin-12 (IL-12), His</b> remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, rat Interleukin-12 (IL-12), His should be stable up to 1 week at 4°C or up to 2 months at -20°C.
<b>Note</b>	For research use only

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