

## Overview

<b>Synonyms</b>	NKSF, CTL maturation factor (TCMF), Cytotoxic lymphocyte maturation factor (CLMF), TSF, Interferon-gamma-inducing factor, IGIF, IL-1g, IL1F4, IL-1 gamma
<b>Description</b>	<b>Interleukin-18 (IL18, also known as interferon-gamma inducing factor or IGIF)</b> is a cytokine that belongs to the IL-1 superfamily and is produced by macrophages and other cells. Its biological activity is pleiotropic and it has been shown to induce interferon-gamma production in KG-1 cells. The combination of this cytokine and IL12 has been shown to inhibit IL4 dependent IgE and IgG1 production, and enhance IgG2a production in B cells. Recombinant <b>rat Interleukin-18 (rrIL-18)</b> produced in <i>E. coli</i> is a single non-glycosylated polypeptide chain containing 159 amino acids. A fully biologically active molecule, rrIL-18 has a molecular mass of 18.4 kDa analyzed by reducing SDS-PAGE and is obtained by proprietary chromatographic techniques.
<b>Accession No</b>	P97636-1
<b>Species</b>	Rat
<b>Source</b>	<i>E. coli</i>
<b>Biological Activity</b>	ED <sub>50</sub> <2µg/ml resulted in the secretion of 0.15 ng/ml h-IFN-gamma when tested using KG-1 cell line, corresponding to a specific activity of > 500 units/mg.
<b>Sequence</b>	MHFGRLLHCTT AVIRSINDQV LFVDKRNPPV FEDMPDIDRT ANESQTRLII YMYKDSEVRG LAVTLVKDVG RMSTLSCKNK IISFEEMNPP ENIDDIKSDL IFFQKRVPKH NKMEFESSLY EGHFLACQKE DDAFKLVLRK KDENGDKSVM FTLTNLHQS

## Properties

<b>Measured Molecular Weight</b>	18.4 kDa, observed by reducing SDS-PAGE.
<b>Purity</b>	> 95% by SDS-PAGE analyses.
<b>Formulation</b>	Lyophilized after extensive dialysis against 50mM Tris, 50mM NaCl, pH8.0.
<b>Reconstitution</b>	Reconstituted in ddH <sub>2</sub> O at 100 µg/ml.
<b>Endotoxin Level</b>	< 0.2 EU/µg, determined by LAL method.
<b>Storage</b>	Lyophilized recombinant <b>rat Interleukin-18 (rrIL-18)</b> remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, rrIL-18 should be stable up to 2 weeks at 4°C or up to 3 months at -20°C.
<b>Note</b>	For research use only

India Contact:

**Life Technologies (India) Pvt. Ltd.**

306, Aggarwal City Mall, Opposite M2K Pitampura,  
Delhi – 110034 (INDIA).

Mobile: +91-9810521400, Ph: +91-11-42208000

Email: [customerservice@lifetechindia.com](mailto:customerservice@lifetechindia.com)

Web: [www.lifetechindia.com](http://www.lifetechindia.com)