

## Overview

<b>Synonyms</b>	BSF-1, Lymphocyte stimulatory factor 1
<b>Description</b>	<b>Interleukin-4 (IL-4)</b> , also known as BSF-1 and Lymphocyte stimulatory factor 1, is a secreted cytokine belonging to the IL-4/IL-13 family. It is produced by mast cells, T cells and bone marrow stromal cells. IL-4 signals through two receptor complexes: the IL4R $\alpha$ /common $\gamma$ chain and the IL4R $\alpha$ -IL-13 R $\alpha$ 1 receptor complex. IL-4 regulates T cell and B cell proliferation, survival and gene expression. IL-4 also induces IgG and IgE class switching, and the upregulation of MHC-II production.
<b>Accession No</b>	P20096
<b>Species</b>	Rat
<b>Source</b>	CHO
<b>Biological Activity</b>	ED <sub>50</sub> < 0.2 $\mu$ g/ml, measured in a proliferation assay using C6 cells.
<b>Sequence</b>	HGCNDSPLRE IINTLNQVTE KGTPCTEMFV PDVLTATRNT TENELICRAS RVLKRFYFPR DVPPCLKNKS GVLGELRKLC RGVSGLNLSR SCTVNESTLT TLKDFLESLEK SILRGKYLQS CTSMSHHHHH H

## Properties

<b>Measured Molecular Weight</b>	18-22 kDa, 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 $\mu$ g/ml.
<b>Endotoxin Level</b>	< 0.2 EU/ $\mu$ g, determined by LAL method.
<b>Storage</b>	Lyophilized recombinant <b>rat Interleukin-4 (IL-4)</b> , His remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, rat Interleukin-4 (IL-4), 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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