

## Overview

<b>Synonyms</b>	B-TCGF, CSIF, TGIF
<b>Description</b>	<b>Interleukin-10 (IL-10)</b> , initially known as Cytokine Synthesis Inhibitory Factor (CSIF), belongs to the IL-10 family and shares more than 80% sequence homology with the Epstein-Barr Virus protein BCRF1. It is produced by many immune cells, such as T-cells, macrophages, mast cells and dendritic cells. It is usually secreted as a homodimer and, upon binding to its receptor, inhibits the synthesis of a number of cytokines, including IFN-gamma, IL-2, IL-3, TNF and GM-CSF produced by activated macrophages and Th2 cells. It also displays the ability to suppress Antigen-Presenting Cell (APC) function. The net effect of Interleukin-10 appears to be inhibitory; however, stimulatory effects, such as stimulation of B cell maturation and antibody production, are also reported.
<b>Accession No</b>	P29456
<b>Species</b>	Rat
<b>Source</b>	CHO
<b>Biological Activity</b>	ED <sub>50</sub> <8µg /ml, measured in a bioassay using C6 cells.
<b>Sequence</b>	SKGHSIRGDN NCTHFPVSQT HMLRELRAAF SQVKTFQKK DQLDNILLTD SLLQDFKGYL GCQALSEMIK FYLVEVMPQA ENHGPEIKEH LNSLGEKLT LWIQLRCHR FLPCENKSKA VEQVKDNDFNK LQDKGVYKAM NEFDIFINCI EAYVTLKMKN

## Properties

<b>Measured Molecular Weight</b>	8-22 kDa, observed by reducing SDS-PAGE.
<b>Purity</b>	> 95% as analyzed by SDS-PAGE and HPLC.
<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-10(IL-10)</b> remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, Rat Interleukin-10 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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