

Overview

Synonyms	B-TCGF, CSIF, TGIF
Description	Interleukin-10 (IL-10) , 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 BCRFI. 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, 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.
Accession No	P18893
Species	Mouse
Source	CHO
Biological Activity	ED ₅₀ <0.2 ng/ml, measured in a cell proliferation assay using MC/9 cells.
Sequence	SRGQYSREDN NCTHFPVGQS HMLLELR TAF SQVKTFQTK DQLDNILLTD SLMQDFKGYL GCQALSEMIQ FYLVEVMPQA EKHGPEIKEH LNSLGEKLT LRMRLRCHR FLPCENKSKA VEQVKSDFNK LQDQGVYKAM NEFDIFINCI EAYMMIKMKS

Properties

Measured Molecular Weight	21-23 kDa, observed by reducing SDS-PAGE.
Purity	> 95% as analyzed by SDS-PAGE and HPLC.
Formulation	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH ₂ O or PBS at 100 µg/ml.
Endotoxin Level	< 0.2 EU/µg, determined by LAL method.
Storage	Lyophilized recombinant murine Interleukin-10 remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, murine Interleukin-10 should be stable up to 1 week at 4°C or up to 2 months at -20°C.
Note	For research use only

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