

IL-10, Human(CHO-expressed)

Cat. No.: Z03121-1

Size: 1.0 mg

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 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 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.

Amino Acid Sequence:

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00001 SPGQGTQSEN SCTHFPGNLP NMLRDLRDAF SRVKTFQMK
00041 DQLDNLLLKE SLLEDFKGYL GCQALSEMIQ FYLEEVMPPA
00081 ENQDPDIKAH VNSLGENLKT LRLRLRCHR FLPCENKSKA
00121 VEQVKNAFNK LQEKGIYKAM SEFDIFINYI EAYMTMKIRN
00161
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Source: CHO

Species: Human

Biological Activity: ED₅₀ < 0.2 ng/ml, measured in a cell proliferation assay using MC/9 cells.

Molecular Weight: 18-19 kDa, observed by reducing SDS-PAGE.

Formulation: Lyophilized after extensive dialysis against PBS.

Reconstitution: Reconstituted in ddH₂O or PBS at 100 µg/ml.

Purity: > 95% as analyzed by SDS-PAGE and HPLC.

Endotoxin Level: < 0.2 EU/µg, determined by LAL method.

Storage: Lyophilized recombinant Human Interleukin-10 remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, Human Interleukin-10 should be stable up to 1 week at 4°C or up to 2 months at -20°C.