

IL-10, Mouse(CHO-expressed)

Cat. No.: Z03161-50

Size: 50.0 ug

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 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, 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.

Amino Acid Sequence:

```
00001 SRGQYSREDN NCTHFPVQGS HMLLELR TAF SQVKTFFQTK
00041 DQLDNILLTD SLMQDFKGYL GCQALSEMIQ FYLVEVMPQA
00081 EKHGPEIKEH LNSLGEKTKT LRMRLRRCHR FLPCENKSKA
00121 VEQVKSDFNK LQDQGVYKAM NEFDIFINCI EAYMMIKMKS
00161
```

Source: CHO

Species: Mouse

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

Molecular Weight: 21-23 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 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.