

## IL-10, Rat (CHO-expressed)

**Cat. No.:** Z03171-50

**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 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.

### Amino Acid Sequence:

```
00001 SKGHSIRGDN NCTHFPVSQT HMLRELRAAF SQVKTFFQKK  
00041 DQLDNILLTD SLLQDFKGYL GCQALSEMIK FYLVEVMPQA  
00081 ENHGPEIKEH LNSLGEKTKT LWIQLRRCHR FLPENKSKA  
00121 VEQVKDNDFNK LQDKGVYKAM NEFDIFINCI EAYVTLKMKN  
00161
```

**Source:** CHO

**Species:** Rat

**Biological Activity:** ED<sub>50</sub> <8µg /ml, measured in a bioassay using C6 cells.

**Molecular Weight:** 8-22 kDa, observed by reducing SDS-PAGE.

**Formulation:** Lyophilized after extensive dialysis against PBS.

**Reconstitution:** Reconstituted in ddH<sub>2</sub>O 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 rat Interleukin-10(IL-10) 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.