

# PRODUCT DATA SHEET



Bioworld Technology, Inc.

## Recombinant IL-10, Rat

Catalog Number: BK0089-50µg

Source: Escherichia coli.

Quantity: 50µg

### Description:

Interleukin-10 (IL-10), also known as cytokine synthesis inhibitory factor (CSIF), is an anti-inflammatory cytokine produced by a variety of cell lines including T-cells, macrophages and mast cells. IL-10 is classified as a class-2 cytokine, a set of cytokines including IL-19, IL-20, IL-22, IL-24, and IL-26. IL-10 can inhibit the synthesis of pro-inflammatory cytokines such as IFN-gamma, IL-2, IL-3, TNF and GM-CSF. It also stimulates Th2 responses, but suppresses the antigen-presentation capacity of antigen presenting cells. Recombinant rat Interleukin-10 (IL-10) produced in E.coli is a single non-glycosylated polypeptide chain containing 161 amino acids. A fully biologically active molecule, recombinant rat Interleukin-10 (IL-10) has a molecular mass of 18.7kDa analyzed by reducing SDS-PAGE and is obtained by proprietary chromatographic techniques at GenScript.

### Molecular Weight:

18.7 kDa, observed by reducing SDS-PAGE.

### Purity:

> 95% by SDS-PAGE and HPLC analyses.

### Biological Activity:

ED50 < 0.5µg/ml, measured by a cell proliferation assay using C6 cells, corresponding to a specific activity of > 2.0 × 10<sup>3</sup> units/mg.

### Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

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### Formulation:

Lyophilized after extensive dialysis against PBS.

### AA Sequence:

MSKGHSIKGDNNTHTFPVSQTHM-  
LRELRAAFSQQVKTFFQKKDQLDNIVLT-  
DSLLQDFKGYLGCQALSEMIKFYL-  
VEVMPQAENHGPEIKEHLNSLGEKLLKTL-  
WQLRRCHRFLPCENKSKAVEQVKNDFNKLQDK  
GVYKAMNEFDIFINCIEAYVTLKMKN

### Endotoxin:

< 0.2 EU/µg, determined by LAL method.

### Reconstitution:

Reconstituted in ddH<sub>2</sub>O at 100 µg/ml.

### Storage:

Lyophilized recombinant rat Interleukin-10 (IL-10) remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, IL-10 should be stable up to 2 weeks at 4 °C or up to 3 months at -20 °C.

### Usage:

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