

## PRODUCT DATA SHEET



Bioworld Technology, Inc.

### Recombinant Murine Interleukin-10 (rMuIL-10)

Catalog Number: PR2021

Source: Escherichia coli.

Quantity: 2µg/10µg/1.0mg

#### Description

IL-10 is an immunosuppressive cytokine produced by a variety of mammalian cell types including macrophages, monocytes, T cells, B cells and keratinocytes. IL-10 inhibits the expression of proinflammatory cytokines such as IL-1 and TNF $\alpha$ . Like IL-4, IL-10 enhances humoral immune responses and attenuates cell-mediated immune reactions. Human IL-10 active on murine cells, but murine IL-10 is inactive on human cells.

#### Molecular Weight:

Approximately 18.7 kDa, a single non-glycosylated polypeptide chain containing 161 amino acids

#### Purity:

>97% by SDS-PAGE and HPLC analyses.

#### Biological Activity:

Fully biologically active when compared to standard. The ED50 as determined by the dose-dependent co-stimulation (with IL-4) of the proliferation of murine MC/9 cells was found to be < 2 ng/ml, corresponding to a specific activity of > 5 x 10<sup>5</sup> units/mg.

#### Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

#### Formulation:

Lyophilized from a 0.2mm filtered concentrated solution in PBS, pH 7.4.

#### AA Sequence:

MSRGGQYSREDNNC THFPVGGQSHMLLEL  
RTAFSQVKTF FQTKDQLDNILLTDSL M

QDFKGYLGCA LSEMIQFYLV EVM P Q  
AEKHGPEIKEHLNSLGQKLKTLRMRLR  
RCHRFLPCENKSKAVEQVKSDFNKLED  
QGVYKAMNEFDIFINCIEAYMMIKMKS

#### Endotoxin:

Less than 1EU/mg of rMuIL-10 as determined by LAL method.

#### Reconstitution:

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/ml. Stock solutions should be apportioned into working aliquots and stored at <-20°C. Further dilutions should be made in appropriate buffered solutions.

#### Storage:

This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -70°C. Avoid repeated freeze/thaw cycles.

#### Usage:

This material is offered by USA Bioworld biotech for research, laboratory or further evaluation purposes. NOT FOR HUMAN USE. Made in China

MADE IN CHINA

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