

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant IL-10, Rat

Catalog Number: BK0089-10µg

Source: Escherichia coli.

Quantity: 10µg

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 × 10³ units/mg.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) pow-

der.

Formulation:

Lyophilized after extensive dialysis against PBS.

AA Sequence:

MSKGHSIKGDNNTHTFPVSQTHM-
LRELRAAFSQVKTFQKKDQLDNIVLT-
DSLLQDFKGYLGCQALSEMIKFYL-
VEVMPQAENHGPEIKEHLNSLGEKLLKTL-
WIQLRRCHRFLPCENKSKAVEQVKNDFNKLQDK
GVYKAMNEFDIFINCIEAYVTLKMKN

Endotoxin:

< 0.2 EU/µg, determined by LAL method.

Reconstitution:

Reconstituted in ddH₂O 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:

This material is offered by USA Bioworld biotech for research, laboratory or further evaluation purposes. For research use only.