

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant IL-10, Rat (CHO-expressed)

Catalog Number: BK0227-10 μ g

Source: CHO

Quantity: 10 μ g

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.

Molecular Weight:

8-22 kDa, observed by reducing SDS-PAGE.

Purity:

> 95% as analyzed by SDS-PAGE and HPLC.

Biological Activity:

ED50 <8 μ g/ml, measured in a bioassay using C6 cells.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Lyophilized after extensive dialysis against PBS.

AA Sequence:

SKGHSIRGDNNTTHFPVSQTHM-
LRELRAAFSQQVKTFFQKKDQLD-
NILLTDSLQDFKGYLGCQALSEMIKFYL-
VEVMPQAENHGPEIKEHLNSLGEKLLKTL-
WIQLRCHRFLPCENKSKAVEQVKNDFNKLQDK
GVYKAMNEFDIFINCIEAYVTLKMKN

Endotoxin:

< 0.2 EU/ μ g, determined by LAL method.

Reconstitution:

Reconstituted in ddH₂O or PBS at 100 μ g/ml.

Storage:

Lyophilized recombinant rat Interleukin-10(IL-10) remains stable up to 6 months at -80 $^{\circ}$ C from date of receipt. Upon reconstitution, Rat Interleukin-10 should be stable up to 1 week at 4 $^{\circ}$ C or up to 2 months at -20 $^{\circ}$ C.

Usage:

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