

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant IL-10, Human(CHO-expressed)

Catalog Number: BK0225-10 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 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 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:

18-19 kDa, observed by reducing SDS-PAGE.

Purity:

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

Biological Activity:

ED50 < 0.2 ng/ml, measured in a cell proliferation assay using MC/9 cells.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Lyophilized after extensive dialysis against PBS.

AA Sequence:

SPGQGTQSENSCTHFPGNLPNMLRDLR-
DAFSRVKTFQMKDQLD-
NLLLKESLLEDFKGYLGCQALSEMI-
QFYLEEVMQAENQDPDI-
KAHVNSLGENLKTLLRRLRRCHRFLPCENKSKA
VEQVKNAFNKLQEKGIIYKAMSEFD-
IFINYIEAYMTMKIRN

Endotoxin:

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

Reconstitution:

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

Storage:

Lyophilized recombinant Human Interleukin-10 remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, Human Interleukin-10 should be stable up to 1 week at 4 °C or up to 2 months at -20 °C.

Usage:

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