# PRODUCT DATA SHEET



Bioworld Technology,Inc.

# Recombinant IL-22, Human

Catalog Number: BK0100-50µg Source: Escherichia coli. Quantity: 50µg

## **Description:**

Interleukin-22(IL-22) belongs to a group of cytokines called the IL-10 family or IL-10 superfamily (including IL-19, IL-20, IL-24, and IL-26) which are a class of potent mediators of cellular inflammatory responses. It shares use of IL-10R2 in cell signaling with other members of this family, such as IL-10, IL-26, IL-28A/B and IL-29. IL-22 is produced by activated DC and T cells and initiates innate immune responses against bacterial pathogens in epithelial cells such as those in the lung and gut. IL-22 along with IL-17 is produced by splenic LTi-like cells and Th17 cells and likely plays a role in the coordinated response of both adaptive and innate immune systems.IL-22 signals system through a receptor consisting IL-10R-6/CRF2-4 and IL-22R, both of which are members of the class II cytokine-receptor family.Recombinant human Interleukin-22 (IL-22) produced in E.coli is a single non-glycosylated polypeptide chain containing 147 amino acids. A fully biologically active molecule, rhIL-22 has a molecular mass of 16.9 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques at GenScript.

# **Molecular Weight:**

16.9 kDa, observed by reducing SDS-PAGE.

## **Purity:**

> 98% as analyzed by SDS-PAGE.

## **Biological Activity:**

Measured by its ability to induce IL-10 secretion in COLO 205 (human colon carcinoma cells). The ED50 for this effect is less than 1 ng/ml.

## **Physical Appearance:**

Sterile Filtered White lyophilized (freeze-dried) powder.

## **Formulation:**

Lyophilized after extensive dialysis against PBS.

## **AA Sequence:**

MAPISSHCRLDKSNFQQPYITNRT-FMLAKEASLADNNTDVRLIGEKLF-HGVSMSERCYLMKQVLNFTLEEVLFPQS-DRFQPYMQEVVPFLARLS-NRLSTCHIEGDDLHIQRNVQKLKDTVKKLGESG EIKAIGELDLLFMSLRNACI

#### **Endotoxin:**

< 0.2 EU/µg, determined by LAL method.

## **Reconstitution:**

Reconstituted in ddH2O or PBS at 100 μg/ml.

#### Storage:

Lyophilized recombinant human Interleukin-22 (IL-22) remains stable up to 6 months at -80  $^{\circ}$ C from date of receipt. Upon reconstitution, human Interleukin-22 (IL-22) should be stable up to 1 week at 4  $^{\circ}$ C or up to 2 months at -20  $^{\circ}$ C.

#### **Usage:**

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

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