

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant Human Interleukin-22 (rHu IL-22)

Catalog Number: PR1068

Source: Escherichia coli.

Quantity: 2µg/10µg/1.0mg

Description

IL-22 is a member of the IL-10 family of regulatory cytokines which includes IL-10, IL-19, IL-20, IL-22, IL-24 and IL-26. Members of this family share partial homology in their amino acid sequences, but they are dissimilar in their biological functions. Produced by T lymphocytes, IL-22 inhibits IL-4 production by Th2 cells, and induces acute phase reactants in the liver and pancreas. IL-22 signals through a receptor system consisting of IL-10R-β/CRF2-4 and IL-22R, both of which are members of the class II cytokine-receptor family.

Molecular Weight:

Approximately 33.6 kDa, non-disulfide-linked homodimeric protein containing of two 146 amino acid polypeptide chains.

Purity:

>97% by SDS-PAGE and HPLC analyses.

Biological Activity:

Determined by its ability to activate STAT following receptor ligand interaction.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Lyophilized from a 0.2mm filtered concentrated solution in PBS, pH 5.0.

AA Sequence:

M A P I S S H C R L D K S N F Q Q P Y I T N R T F M L
A K E A S L A D N N T D V R L I G E K L F H G V S M S

E R C Y L M K Q V L N F T L E E V L F P Q S D R F Q P
Y M Q E V V P F L A R L S N R L S T C H I E G D D L H
I Q R N V Q K L K D T V K K L G E S G E I K A I G E L
D L L F M S L R N A C I

Endotoxin:

Less than 1EU/mg of rHuIL-22 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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