

## PRODUCT DATA SHEET



Bioworld Technology, Inc.

### Recombinant Human Interleukin-17F (rHuIL-17F)

Catalog Number: PR1064

Source: Escherichia coli.

Quantity: 5µg/25µg/1.0mg

#### Description

Human IL-17F is synthesized as a 153 aa precursor with a 20 aa signal sequence and a 133 aa mature region. Like IL-17A, IL-17F contains one potential site for N-linked glycosylation. IL-17A and IL-17F share 50% aa sequence identity. IL-17F homodimer is produced by an activated subset of CD4<sup>+</sup> T cells, termed Th17. IL-17F has been shown to stimulate proliferation and activation of T-cells and PBMCs. IL-17F also regulates cartilage matrix turnover and inhibits angiogenesis.

#### Molecular Weight:

A disulfide-linked homodimer of 30.1kDa, consisting of two 133 amino acid polypeptide chains.

#### Purity:

>95% by SDS-PAGE and HPLC analyses.

#### Biological Activity:

Measured by its ability to induce IL-6 production by NHDF cells, it's fully biologically active when compared to standard.

#### Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

#### Formulation:

Lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.4.

#### AA Sequence:

MRKIPKVGHTFFQKPE SCPPVPGGSMK  
LDIGIINENQRVSM SRNIESRSTSPWNY

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

#### Endotoxin:

Less than 1EU/µg of rHuIL-17F 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 4 mM HCl to a concentration of 0.1mg/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 for several weeks 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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