

## PRODUCT DATA SHEET



Bioworld Technology, Inc.

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

Catalog Number: PR1063

Source: Escherichia coli.

Quantity: 2µg/10µg/1.0mg

#### Description

Interleukin 17 (also known as CTLA-8) is a T cell-expressed pleiotropic cytokine that exhibits a high degree of homology to a protein encoded by the ORF13 gene of herpesvirus Saimiri. cDNA clones encoding IL-17 have been isolated from activated rat, mouse and human T cells. Human IL-17 cDNA encodes a 155 amino acid (aa) residue precursor protein with a 19 amino acid residue signal peptide that is cleaved to yield the 136 aa residue mature IL-17 containing one potential N-linked glycosylation site. Both recombinant and natural IL-17 have been shown to exist as disulfide linked homodimers. At the amino acid level, human IL-17 shows 72% and 63% sequence identity with herpesvirus and rat IL-17, respectively. An IL-17 specific mouse cell surface receptor (IL-17 R) has recently been cloned. While the expression of IL-17 mRNA is restricted to activated T cells, the expression of mLIL-17 R mRNA has been detected in virtually all cells and tissues tested. IL-17 exhibits multiple biological activities on a variety of cells including the induction of IL-6 and IL-8 production in fibroblasts, the enhancement of surface expression of ICAM-1 in fibroblasts, activation of NF-κB and costimulation of T cell proliferation.

#### Molecular Weight:

Approximately 31.0 kDa, disulfide-linked homodimer of two 136 amino acid polypeptide chains.

#### Purity:

>95% by SDS-PAGE and HPLC analyses.

#### Biological Activity:

Fully biologically active when compared to standard. The ED50 as determined by the dose-dependent induction of IL-6

in primary human foreskin fibroblasts was found to be approximately 2 ng/ml., corresponding to a specific activity of > 5 x 10<sup>5</sup> units/mg.

#### Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

#### Formulation:

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

#### AA Sequence:

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

#### Endotoxin:

Less than 1EU/mg of rHuIL-17 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 reconsti-

MADE IN CHINA

**Bioworld Technology, Inc.**

1660 South Highway 100, Suite 500 St. Louis Park, MN

55416, USA.

Tel: 6123263284

Email: [info@bioworld.com](mailto:info@bioworld.com)

Fax: 6122933841

**Bioworld technology, co, Ltd.**

No 9, weidi road Qixia District Nanjing, 210046, P, R.China.

Tel: 0086-025-86371664

Email: [info@biogot.com](mailto:info@biogot.com)

Fax: 0086-025-86213570

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tuted 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

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### Bioworld Technology, Inc.

1660 South Highway 100, Suite 500 St. Louis Park, MN  
55416, USA. Email: [info@bioworld.com](mailto:info@bioworld.com)  
Tel: 6123263284 Fax: 6122933841

### Bioworld technology, co, Ltd.

No 9, weidi road Qixia District Nanjing, 210046, P, R.China.  
Email: [info@biogot.com](mailto:info@biogot.com)  
Tel: 0086-025-86371664 Fax: 0086-025-86213570