

## PRODUCT DATA SHEET



Bioworld Technology, Inc.

### Recombinant Murine Interleukin-3 (rMuIL-3 )

Catalog Number: PR2023

Source: Escherichia coli.

Quantity: 2µg/10µg/1.0mg

#### Description

IL-3 is a hematopoietic growth factor that promotes the survival, differentiation and proliferation of committed progenitor cells of the megakaryocyte, granulocyte-macrophage, erythroid, eosinophil, basophil and mast cell lineages. Produced by T cells, mast cells and eosinophils, IL-3 enhances thrombopoiesis, phagocytosis, and antibody-mediated cellular cytotoxicity. Its ability to activate monocytes suggests that IL-3 may have additional immunoregulatory roles. Many of the IL-3 activities depend upon co-stimulation with other cytokines. IL-3 is species-specific, variably glycosylated cytokine.

#### Molecular Weight:

Approximately 15.1 kDa globular protein containing 135 amino acid residues.

#### Purity:

>98% by SDS-PAGE and HPLC analyses.

#### Biological Activity:

The ED50 as determined by the dose-dependent stimulation of the proliferation of murine M-NFS-60 cells is < 0.05 ng/ml, corresponding to a specific activity of > 2 x 10<sup>7</sup> units/mg.

#### Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

#### Formulation:

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

#### AA Sequence:

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

#### Endotoxin:

Less than 1EU/mg of rmIL-3 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

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