#### PRODUCT DATA SHEET



# Bioworld Technology, Inc.

# **Recombinant Murine Interleukin-13** (rMuIL-13)

Catalog Number: PR2010 Source: Escherichia coli. Quantity:2µg/10µg/1.0mg

## **Description**

IL-13 is an immunoregulatory cytokine produced primarily by activated Th2 cells, and also by mast cells and NK cells. Targeted deletion of IL-13 in mice resulted in impaired Th2 cell development and indicated an important role for IL-13 in the expulsion of gastrointestinal parasites. IL-13 exerts antiinflammatory effects on monocytes and macrophages and it Less than 1EU/mg of rmIL-13 as determined by LAL method. inhibits the expression of inflammatory cytokines such as IL-1beta, TNF-alpha, IL-6 and IL-8. IL-13 has also been shown to enhance B cell proliferation and to induce isotype switching resulting in increased production of IgE. Blocking of IL-13 activity inhibits the pathophysiology of asthma. Human and murine IL-13 is cross-species reactive.

## **Molecular Weight:**

Approximately 12.3 kDa, a single non-glycosylated polypeptide chain containing 111 amino acids.

#### **Purity:**

>97% by SDS-PAGE and HPLC analyses.

#### **Biological Activity:**

The ED50 as determined by the dose-dependent proliferation of TF-1 cells was < 4.0 ng/ml, corresponding to a specific activity of  $> 2.5 \times 105 \text{ units/mg}$ .

#### **Physical Appearance:**

Sterile Filtered White lyophilized (freeze-dried) powder.

## Formulation:

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

## **AA Sequence:**

MPVPRSVSLPLTLKELIEELSNITQDQTP LCNGSMVWSVDLAAGGFCVALDSLTN ISNCNAIYRTORILHGLCNRKAPTTVSS LPDTKIEVAHFITKLLSYTKQLFRHGPF

#### **Endotoxin:**

#### **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:

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Email: info@biogot.com Tel: 0086-025-86371664 Fax:0086-025-86213570