

# PRODUCT DATA SHEET



Bioworld Technology, Inc.

## Recombinant IL-5, Mouse

Catalog Number: BK0107-500µg

Source: Escherichia coli.

Quantity: 500µg

### Description:

Interleukin-5 (rmIL-5), produced by mast cells, T cells and eosinophils, is responsible for the activities attributed to eosinophil differentiating factor, B cell growth factor II and T cell-replacing factor (TRF). It can increase production and mobilization of eosinophils and CD34+ progenitors from the bone marrow. IL-5 plays an important role in inducing cell-mediated immunity against parasitic infections and certain tumors. IL-5 also promotes differentiation of basophils and primes them for histamine and leukotriene release. Recombinant mouse Interleukin-5 (rmIL-5) produced in E.coli is a disulfide-linked homodimer containing two non-glycosylated polypeptide chains of 113 amino acids each. A fully biologically active molecule, rmIL-5 has a molecular mass of 26.2kDa analyzed by non-reducing SDS-PAGE and is obtained by proprietary chromatographic techniques at GenScript.

### Molecular Weight:

26.2kDa, observed by non-reducing SDS-PAGE.

### Purity:

> 95% by SDS-PAGE and HPLC analyses.

### Biological Activity:

ED50 < 2.0 ng/ml, measured by a cell proliferation assay using TF-1 Cells, corresponding to a specific activity of > 5.0 × 10<sup>5</sup> units/mg.

### Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

### Formulation:

Lyophilized after extensive dialysis against PBS.

### AA Sequence:

MEIPMSTVVKETLTQLSAHRALLTSNETMRL-  
PVPTHKNHQLCIGEIFQGLDILK-  
NQTVRGGTVEMLFQNLSLIK-  
KYIDRQKEKCGEERRRTRQFLDYLQEFLGVM-  
STEWAMEG

### Endotoxin:

< 0.2 EU/µg, determined by LAL method.

### Reconstitution:

Reconstituted in ddH<sub>2</sub>O at 100 µg/ml.

### Storage:

Lyophilized recombinant mouse Interleukin-5 (rmIL-5) remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, rmIL-5 should be stable up to 2 weeks at 4 °C or up to 3 months at -20 °C.

### Usage:

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