

# PRODUCT DATA SHEET



Bioworld Technology, Inc.

## Recombinant IL-5, Mouse(CHO-expressed)

Catalog Number: BK0250-50µg

Source: CHO

Quantity: 50µg

### Description:

Interleukin-5 (IL-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 Murine IL-5 is homodimeric protein with molecular weight ranging from 25 to 40 kDa due to glycosylation.

### Molecular Weight:

25-40 kDa, observed by non-reducing SDS-PAGE.

### Purity:

> 95% as analyzed by SDS-PAGE and HPLC.

### Biological Activity:

ED50 < 0.5 ng/ml, measured in a cell proliferation assay using TF-1 cells, corresponding to a specific activity of > 2×10<sup>6</sup> units/mg.

### Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

### Formulation:

Lyophilized after extensive dialysis against PBS.

### AA Sequence:

MEIPMSTVVKETLTQLSAHRALLTSNETMRL-  
PVPTHKNHQLCIGEIFQGLDILK-  
NQTVRGGTVEMLFQNLSLIKKYIDRQ  
KEKCGEERRRTRQFLDYLQEFLGVMSTEW-  
AMEG

### Endotoxin:

< 0.2 EU/µg, determined by LAL method.

### Reconstitution:

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

### Storage:

Lyophilized recombinant Murine Interleukin 5 (IL-5) remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, rmIL-5 should be stable up to 1 week at 4 °C or up to 2 months at -20 °C.

### Usage:

This material is offered by USA Bioworld biotech for research, laboratory or further evaluation purposes. For research use only.