

# PRODUCT DATA SHEET



Bioworld Technology, Inc.

## Recombinant IL-4, His, Rat

Catalog Number: BK0244-25µg

Source: CHO

Quantity: 25µg

### Description:

Interleukin-4 (IL-4), also known as BSF-1 and Lymphocyte stimulatory factor 1, is a secreted cytokine belonging to the IL-4/IL-13 family. It is produced by mast cells, T cells and bone marrow stromal cells. IL-4 signals through two receptor complexes: the IL4R $\alpha$ /common  $\gamma$  chain and the IL4R $\alpha$ -IL-13 R $\alpha$ 1 receptor complex. IL-4 regulates T cell and B cell proliferation, survival and gene expression. IL-4 also induces IgG and IgE class switching, and the upregulation of MHC-II production.

### Molecular Weight:

18-22 kDa, observed by reducing SDS-PAGE.

### Purity:

> 95% as analyzed by SDS-PAGE.

### Biological Activity:

ED50 < 0.2 µg/ml, measured in a proliferation assay using C6 cells.

### Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

### Formulation:

Lyophilized after extensive dialysis against PBS.

### AA Sequence:

HGCNDSPL-  
REIINTLNQVTEKGTPCTEMFVPDVLTA-  
TRNTTENELICRASRVLRKFYFPRDVPPCLK-  
NKSGVLGELRKLRCRGVSGLSLRSCTVNESTLTT  
LKDFLESLSILRGKYLQSCTSMHHHHHH

### 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 rat Interleukin-4 (IL-4), His remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, rat Interleukin-4 (IL-4), His should be stable up to 1 week at 4 °C or up to 2 months at -20 °C.

### Usage:

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