

# PRODUCT DATA SHEET



Bioworld Technology, Inc.

## Recombinant IL-3, His, Rat

Catalog Number: BK0242-10µg

Source: CHO

Quantity: 10µg

### Description:

Interleukin-3 (IL-3), also known as MCGF, Multi-CSF, HCGF and P-cell stimulation factor, belongs to the  $\alpha$ -helix family of hematopoietic cytokines. It is produced by activated T-cells, mast cells and natural killer cells. IL-3 binds to the IL-3 receptor alpha subunit and recruits the signal-transducing common beta chain. IL-3 induced signal transduction results in the survival, differentiation and proliferation of a variety of immune cells, such as macrophages, neutrophils, megakaryocytes, mast cells and hematopoietic stem cells. IL-3 often acts synergistically with other cytokines, such as IL-7, EPO, GM-CSF and IL-6, to exert its stimulative function.

### Molecular Weight:

22-34 kDa, observed by reducing SDS-PAGE.

### Purity:

> 95% as analyzed by SDS-PAGE.

### Biological Activity:

ED50 < 8 ng/ml, measured in a cell proliferation assay using NF S-60 cells.

### Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

### Formulation:

Lyophilized after extensive dialysis against PBS.

### AA Sequence:

ISDRGSDAHLLRRLD-  
CRTIALEILVKLPYPQVSGLNNSDDKANLRNSTL  
RRVNLDEFLKSQEEFDSQDITDIK-  
SKLQKLKCCIPAAASDSVLPGVYN-  
KDLDDFKKKLRFYVIHLKDLQPVSVSRPPQPTSS  
SDNFRPMTVECHHHHHH

### 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-3 (IL-3), His remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, rat Interleukin-3 (IL-3), His should be stable up to 1 week at 4 °C or up to 2 months at -20 °C.

### Usage:

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