

# PRODUCT DATA SHEET



Bioworld Technology, Inc.

## Recombinant IL-6, His, Mouse

Catalog Number: BK0252-5µg

Source: CHO

Quantity: 5µg

### Description:

Interleukin-6 (IL-6), also known as BSF-2, CDF and IFNB2, is a pleiotropic cytokine that participates in both pro-inflammatory and anti-inflammatory responses. It is produced mainly by T cells, macrophages, monocytes, endothelial cells and muscle cells. IL-6 binds to IL-6 receptor (IL-6R) to trigger the association of IL-6R with gp130, inducing signal transduction through JAKs and STATs. The biological functions of IL-6 are diverse. It stimulates B cell differentiation and antibody production, myeloma and plasmacytoma growth, and nerve cell differentiation. It also acts as a myokine, produced by muscle cells in response to muscle contraction and released into the blood stream to help break down fats and improve insulin resistance.

### Molecular Weight:

24-26 kDa, observed by reducing SDS-PAGE.

### Purity:

> 95% as analyzed by SDS-PAGE.

### Biological Activity:

ED50 < 3 pg/ml, measured in a bioassay using 7TD1 cells.

### Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

### Formulation:

Lyophilized after extensive dialysis against PBS.

### AA Sequence:

FPTSQVRRGDFTEDTTPNRPVYTTSQVG-  
GLITHVLWEIVEMRKELCNGNSDCMNNDDA-  
LAENNLKLPFIQRNDGCYQTGY  
NQEICLLKISSGLLEYHSY-  
LEYMKNLKDNDKDKARVLQRDTETLIHI-  
FNQEVKDLHKIVLPTPISNALLTDKLESQKEW  
LRTKTIQFILKSLEEFKVTLRSTRQTHHHHHH

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

### Usage:

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