

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant IL-6, His, Mouse

Catalog Number: BK0252-25µg

Source: CHO

Quantity: 25µg

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-  
LEYMKNNLKDKNKKDKARVLQRDTETLIHI-  
FNQEVKDLHKIVLPTPISNALLTDKLESQKEW  
LRTKTIQFILKSLEEFKVTLRSTRQTHHHHHH
```

Endotoxin:

< 0.2 EU/µg, determined by LAL method.

Reconstitution:

Reconstituted in ddH2O 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:

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