

# PRODUCT DATA SHEET



Bioworld Technology, Inc.

## Recombinant IL-6, Rat (HEK 293-expressed)

Catalog Number: BK0317-1mg

Source: HEK 293

Quantity: 1mg

### Description:

Interleukin-6 (IL-6) is a pleiotropic cytokine that plays an important role in host defense by regulating immune and inflammatory responses. Produced by T cells, monocytes, fibroblasts, endothelial cells and keratinocytes, Interleukin-6 (IL-6) has diverse biological functions. It stimulates B-cell differentiation and antibody production, synergizes with IL-3 in megakaryocyte development and platelet production, induces expression of hepatic acute-phase proteins, and regulates bone metabolism. Interleukin-6 (IL-6) signals through the IL-6 receptor system that consists of two chains, IL-6R alpha and gp130.

### Molecular Weight:

21~26 kDa, observed by reducing SDS-PAGE.

### Purity:

> 95% as analyzed by SDS-PAGE.

### Biological Activity:

ED50 < 3 pg/ml, measured by a cell proliferation assay using 7TD1 Cells.

### Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

### Formulation:

Lyophilized after extensive dialysis against PBS.

### AA Sequence:

FPTSQVRRGDFTEDTTHNRPVYTTSQVG-  
GLITYVL-  
REILEMRKELCNGNSDCMNSDDALSENNLKLPEI  
QRNDGCFQTGYNQEICLLKICSGLLE-  
FRFYLEFVKNNLQDNKKDKARVIQSN-  
TETLVHIFKQEIKDSYKI-  
VLPTPTSNALLMEKLESQKEWLRTKTIQLILKA-  
LEEFLKVTMRSTRQT

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

### Usage:

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