NKMAXBiO we support you, we believe in your research Recombinant rat IL-6 protein Catalog Number: ATGP3711

## **PRODUCT INFORMATION**

**Expression system** Baculovirus

**Domain** 25-211aa

**UniProt No.** P20607

NCBI Accession No. NP\_036721

Alternative Names Interleukin 6, Il6, Ifnb2, ILg6, Interferon beta 2

# **PRODUCT SPECIFICATION**

Molecular Weight 22.8 kDa (196aa)

**Concentration** 0.5mg/ml (determined by absorbance at 280nm)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 20% glycerol

### Purity

> 95% by SDS-PAGE

**Endotoxin level** < 1 EU per 1ug of protein (determined by LAL method)

### **Biological Activity**

Measured in a cell proliferation assay using M-NFS-60 mouse myelogenous leukemia lymphoblast cells. The ED50 range  $\leq 0.1$ ng/ml.

**Tag** His-Tag

Application SDS-PAGE, Bioactivity

### **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

# BACKGROUND



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### Description

II6, also known as interleukin 6, is an alpha-helical phosphorylated and glycosylated cytokine. This protein is important roles in the acute phase reaction, inflammation, hematopoiesis, bone metabolism and cancer progression. Also, it can function as an anti-inflammatory molecule, as in skeletal muscle where it is secreted in response to exercise In addition, it enhances hematopoietic stem cell proliferation and the differentiation of Th17 cells, memory B cells, and plasma cells. Recombinant rat II6, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

### Amino acid Sequence

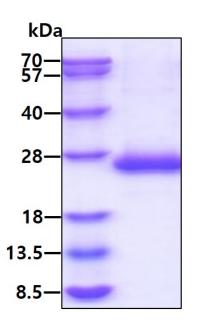
<ADP>FPTSQVR RGDFTEDTTH NRPVYTTSQV GGLITYVLRE ILEMRKELCN GNSDCMNSDDALSENNLKLP EIQRNDGCFQ TGYNQEICLL KICSGLLEFR FYLEFVKNNL QDNKKDKARVIQSNTETLVH IFKQEIKDSY KIVLPTPTSN ALLMEKLESQ KEWLRTKTIQ LILKALEEFL KVTMRSTRQT <HHHHHH>

### **General References**

Garbers C., et al, (2012) Cytokine Growth Factor Rev. 23:85-97. Northemann W., et al, (1989) J. Biol. Chem. 264:16072-16082.

## DATA

### SDS-PAGE

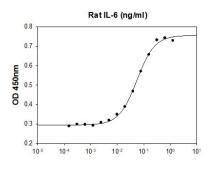


**Biological Activity** 

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

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