

# Recombinant rat IL-6 protein

Catalog Number: ATGP3711

## PRODUCT INFORMATION

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### 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

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### 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

IL6, 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 IL6, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

## Amino acid Sequence

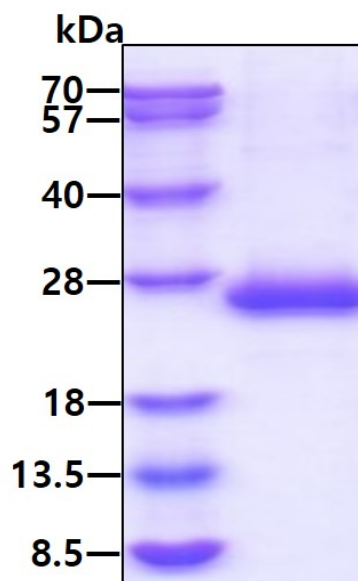
<ADP>FPTSQVR RGDFTEDTTH NRPVYTTSQV GGLITYVLRE ILEMRKELCN GNSDCMNSDDALSENNLKLP EIQRNDGCFQ  
TGYNQEICLL KICSGLLEFR FYLEFVKNNL QDNKKDKARVIQSNTETLVH IFKQEIKDSY KIVLPTPTSN ALLMEKLESQ  
KEWLRTKTIQ LILKALEEFL KVTMRSTRQT <HHHHHH>

## 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

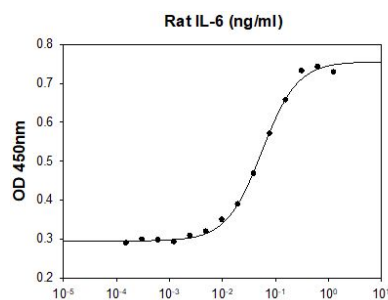


3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

## Biological Activity

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