

# Recombinant mouse IL-18 protein

Catalog Number: ATGP0271

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

36-192aa

### UniProt No.

P70380

### NCBI Accession No.

NP\_032386

### Alternative Names

Interleukin 18, Interferon gamma-inducing factor, IFN-gamma-inducing factor, Interleukin-1 gamma, IL-1 gamma, Igif

## PRODUCT SPECIFICATION

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### Molecular Weight

20.4 kDa (178aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing, 10% glycerol

### Purity

> 90% by SDS-PAGE

### Endotoxin level

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

### Tag

His-Tag

### Application

SDS-PAGE

### 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

Interleukin 18 (IL-18), previously known as interferon-gamma (IFN-gamma) -inducing factor, is an activator of NK cells and a co-inducer of Th1 cytokines. IL-18 is produced from Kupffer cells, activated macrophages, keratinocytes, intestinal epithelial cells, osteoblasts, adrenal cortex cells and murine diencephalon. IL-18 was

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expressed in *E. coli* and purified by conventional chromatography, after refolding of the isolated inclusion bodies in a renaturation buffer.

## Amino acid Sequence

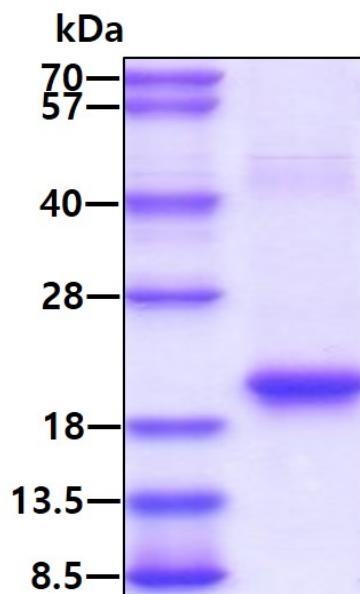
<MGSSHHHHHH SSGLVPRGSH> MNFGRLHCTT AVIRNINDQV LFVDKRQPVF EDMTDIDQSA SEPQTRLIY  
MYKDSEVRGL AVTLVKDSK MSTLSCKNKI ISFEEMDPPE NIDDIQSDLI FFQKRVPGHN KMEFESSLYE GHFLACQKED  
DAFKLILKKK DENGDKSVMF TLTNLHQS

## General References

Okamura H., et al. (1995) *Nature*, 378, 88-91.  
Yoshimoto T., et al. (1998) *J. Immunol*, 161, 3400.  
Gracie JA., et al. (2003) *J Leukoc Biol*. 73,213.

## DATA

### SDS-PAGE



3 $\mu$ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.