## **PRODUCT INFORMATION**

**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**

#### **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

#### 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



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

### **Amino acid Sequence**

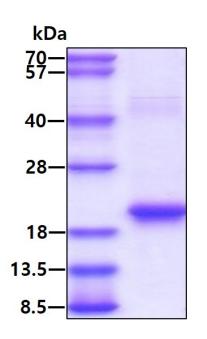
<MGSSHHHHHH SSGLVPRGSH> MNFGRLHCTT AVIRNINDQV LFVDKRQPVF EDMTDIDQSA SEPQTRLIIY MYKDSEVRGL AVTLSVKDSK MSTLSCKNKI ISFEEMDPPE NIDDIQSDLI FFQKRVPGHN KMEFESSLYE GHFLACQKED DAFKLILKKK DENGDKSVMF TLTNLHQS

## **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



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