

# Recombinant human IFN-alpha 2/IFNA2 protein

Catalog Number: IFN0502

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

24-188aa

### UniProt No.

P01563

### NCBI Accession No.

NP\_000596.2

### Alternative Names

Interferon alpha 2, IFN-alpha-2, Interferon alpha-A, IFNA, IFN-alphaA, LeIF A, IFNA2A, IFNA2B, IFNA2C, alpha-2a interferon, Interferon alpha 2b

## PRODUCT SPECIFICATION

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### Molecular Weight

19.4 kDa (166aa) confirmed by MALDI-TOF

### Concentration

0.5mg/ml (determined by Bradford assay)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4), 10% glycerol

### Purity

> 95% by SDS-PAGE

### Endotoxin level

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

### Biological Activity

Measured by its binding ability in a functional ELISA with Human IFN-alpha/beta R2 (CAT# ATGP3952) in the presence of Human IFN-alpha/beta R1 (CAT# ATGP3894).

### Tag

Non-Tagged

### 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.

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## BACKGROUND

### Description

Interferon induces a variety of effects on target cells including antiviral, antiproliferative, and immunomodulatory activities. Interferon alpha-2b can either inhibit or enhance immune cell activity within the tightly regulated microenvironment of inflammation, depending upon the concentration of the cytokine and the activation stage of the cell. Interferon alpha-2b was expressed in *E. coli* and purified by conventional chromatography, after refolding of the isolated inclusion bodies in a renaturation buffer.

### Amino acid Sequence

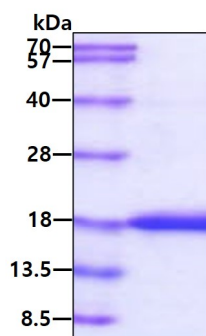
MCDLPQTHSL GSRRTLMLLA QMRRISLFSC LKDRHDFGFP QEEFGNQFQK AETIPVLHEM IQQIFNLFST KDSSAAWDET  
LLDKFYTELY QQLNDLEACV IQGVGVTEPT LMKEDSILAV RKYFQRITLY LKEKKYSPCA WEVVRAEIMR SFSLSTNLQE  
SLRSKE

### General References

Mire-Sluis AR., et al, (1996) *J. Immunol. Methods.*195, 55-61.  
Rubinstein S., et al. (1981) *J. Virol.* 37, 755-758.

## DATA

### SDS-PAGE



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

### Biological Activity

Human IFN-alpha 2 is coated at 10 ug/ml (100 ul/well) can bind Human IFN-alpha/beta R2 (CAT# ATGP3952) in the presence of Human IFN-alpha/beta R1 (CAT# ATGP3894).

