

# Recombinant human IFN-gamma/IFNG protein

Catalog Number: ATGP2808

## PRODUCT INFORMATION

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**Expression system**

E.coli

**Domain**

24-161aa

**UniProt No.**

P01579

**NCBI Accession No.**

NP\_000610

**Alternative Names**

Interferon gamma, Immune interferon, IFG, IFI, IMD69

## PRODUCT SPECIFICATION

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**Molecular Weight**

16.3 kDa (139aa) confirmed by MALDI-TOF

**Concentration**

1mg/ml (determined by Bradford assay)

**Formulation**

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

**Purity**

&gt; 90% by SDS-PAGE

**Endotoxin level**

&lt; 1 EU per 1ug of protein (determined by LAL method)

**Biological Activity**Measured in a cytotoxicity assay using WiDr cells. The ED50 range  $\leq$  0.5ng/ml.**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.

## BACKGROUND

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**Description**

IFNG is a member of the type II interferon family. This protein is a soluble cytokine with antiviral,

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immunoregulatory and anti-tumor properties and is a potent activator of macrophages. Mutations in this gene are associated with aplastic anemia. Recombinant human IFNG protein was expressed in *E. coli* and purified by using conventional chromatography techniques.

## Amino acid Sequence

MQDPYVKEAE NLKKYFNAGH SDVADNGTLF LGILKNWKEE SDRKIMQSQI VSFYFKLFKN FKDDQSIQKS VETIKEDMNV  
KFFNSNKKKR DDFEKLTNYS VTDLNVQRKA IHELIQVMAE LSPAAGTGKR KRSQMLFRG

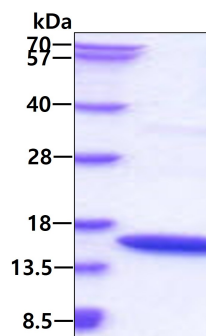
## General References

Dufour C., et al. (2004) Br. J. Haematol. 126:682-685

Thiel D.J., et al. (2000) Structure 8:927-936

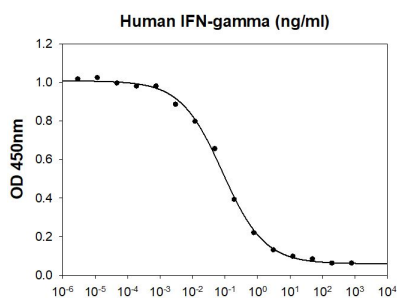
## DATA

### SDS-PAGE



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

### Biological Activity



Human IFN-gamma stimulates cytotoxicity of the WiDr human colon colorectal adenocarcinoma cells. The ED<sub>50</sub> range  $\leq$  0.5ng/ml.