## **PRODUCT INFORMATION**

**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**

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** > 90% by SDS-PAGE

**Endotoxin level** < 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

#### Description

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

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

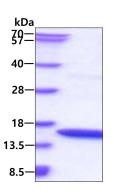
MQDPYVKEAE NLKKYFNAGH SDVADNGTLF LGILKNWKEE SDRKIMQSQI VSFYFKLFKN FKDDQSIQKS VETIKEDMNV KFFNSNKKKR DDFEKLTNYS VTDLNVQRKA IHELIQVMAE LSPAAKTGKR KRSQMLFRG

#### **General References**

Dufour C., et al. (2004) Br. J. Haematol. 126:682-685 Thiel D.J., et al. (2000) Structure 8:927-936

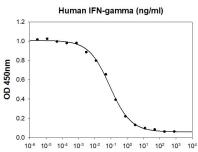
### DATA

#### **SDS-PAGE**



3ug 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 ED50 range  $\leq$  0.5ng/ml.