

Recombinant human IFN-gamma/IFNG protein

Catalog Number: ATGP2808

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,

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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

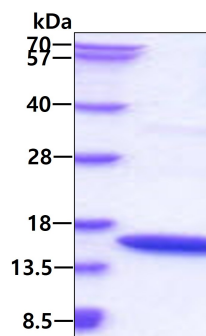
General References

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

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

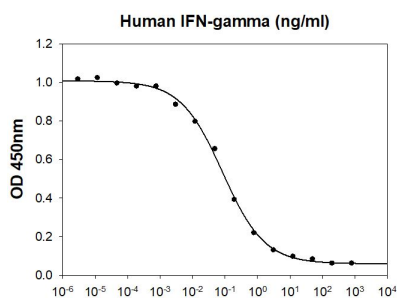
DATA

SDS-PAGE



3µg 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 ≤ 0.5 ng/ml.