

Recombinant human IFN-gamma/IFNG protein

Catalog Number: ATGP3723

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

18.4 kDa (159aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 20% 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 human colon colorectal adenocarcinoma cells. The ED50 range ≤ 5 ng/ml.

Tag

His-Tag

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

Recombinant human IFN-gamma/IFNG protein

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Description

IFNG, also known as Interferon gamma, is secreted by lymphocytes stimulated by mitogen and is involved in the differentiation, maturation, and proliferation of hematopoietic cells. Nature human interferon-gamma is composed of 143 amino acid residues without cysteine residues and is glycosylated. Proteolytic processing produces C-terminal heterogeneity, with proteins ending alternatively at Gly-150, Met-157 or Gly-161. Recombinant human IFNG protein, fused to His-tag at N-terminus, was expressed in *E. coli* and purified by using conventional chromatography techniques.

Amino acid Sequence

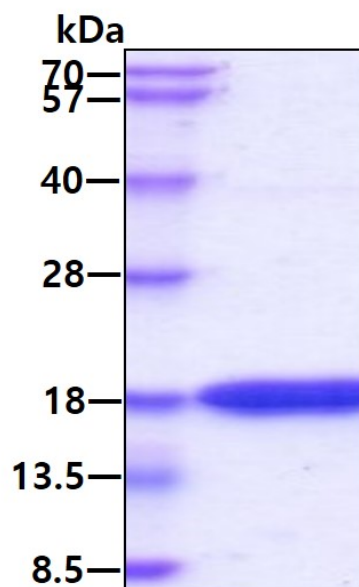
<MGSSHHHHH SSGLVPRGSH M>QDPYVKEAE NLKKYFNAGH SDVADNGTLF LGILKNWKEE SDRKIMQSQI
VSFYFKLFKN FKDDQSIQKS VETIKEDMNV KFFNSNKKKR DDFEKLTNYS VTDLNVQRKA IHELIQVMAE LSPAAGTGKR
KRSQMLFRG

General References

Arakawa T., et al. (1987) *Biochemistry*. 26(17):5428-32
Rinderknecht E., et al. (1984) *J Biol Chem*. 259(11):6790-7

DATA

SDS-PAGE

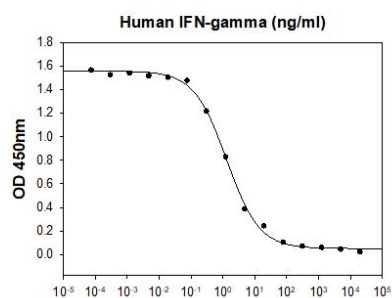


3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

Biological Activity

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Human IFN-gamma stimulates cytotoxicity of the WiDr human colon colorectal adenocarcinoma cells. The ED50 range ≤ 5 ng/ml.