NKMAXBio we support you, we believe in your research 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 \leq 5ng/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



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

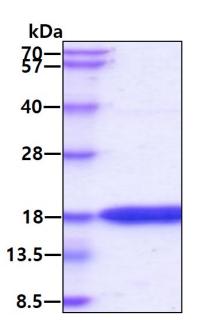
<MGSSHHHHHH SSGLVPRGSH M>QDPYVKEAE NLKKYFNAGH SDVADNGTLF LGILKNWKEE SDRKIMQSQI VSFYFKLFKN FKDDQSIQKS VETIKEDMNV KFFNSNKKKR DDFEKLTNYS VTDLNVQRKA IHELIQVMAE LSPAAKTGKR KRSQMLFRG

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

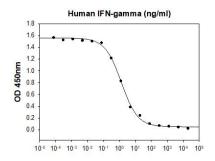
SDS-PAGE



Biological Activity

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

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