Recombinant human IFN-gamma/IFNG protein

Catalog Number: IFG4001

PRODUCT INFORMATION

Expression system
E.coli

Domain
24-166aa

UniProt No.
P01579

NCBI Accession No.
NP_000610.2

Alternative Names
Interferon gamma, Immune interferon, IFG, IFI, IMD69

PRODUCT SPECIFICATION

Molecular Weight
16.9 kDa (144aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by absorbance at 280nm)

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

Purity
> 95% 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 ≤ 1.5ng/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

Recombinant human IFN-gamma/IFNG protein

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Description

Nature human interferon-gamma is composed of 143amino acid residues without cysteine residues and is glycosylated. Recombinant human interferon-gamma was expressed in E. coli and purified by FPLC gel-filtration chromatography, after refolding of the isolated inclusion bodies in a renaturation buffer. Additional amino acid (Methionine) is attached at N-terminus.

Amino acid Sequence

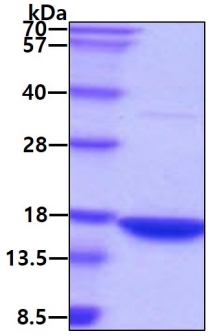
MQDPYVKEAE NLKKYFNAGH SDVADNGTLF LGILKNWKEE SDRKIMQSQI VSFYFKLFKN FKDDQSIQKS VETIKEDMNV KFFNSNKKKR DDFEKLTNYS VTDLNVQRKA IHELIQVMAE LSPAAKTGKR KRSQMLFRGR RASQ

General References

Sen GC, Lengyel P (1992) J. Biol. Chem. 267(8):5017-5020
Tsutomu Arakawa, Yeuh-Rong Hsu (1987) Biochemistry. 26:5428-5432
Ernst Rinderknecht, et al (1984) J. Biol. Chem. 259(11):6790-6797

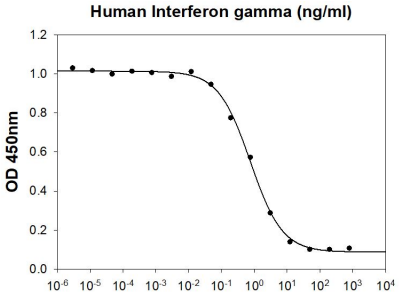
DATA

SDS-PAGE



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

Biological Activity



Human Interferon-gamma stimulates cytotoxicity of the WiDr human colon colorectal adenocarcinoma cells. The ED50 range ≤ 1.5ng/ml