

# Recombinant Human Interferon, Gamma, His-tagged

**Cat. No.** IFNG-145H    **Lot. No.** (See product label)

## SPECIFICATION

|                                |                                                                                                                                                                                                                                                                                                                                                                                                                      |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>        | Recombinant humanIFNG protein,fused to His-tag at N-terminus, was expressed in E. coli andpurified by using conventional chromatography.                                                                                                                                                                                                                                                                             |
| <b>Species</b>                 | Human                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Source</b>                  | E.coli                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Description</b>             | IFNG, also known as interferon gamma, is secreted by lymphocytes stimulatedby mitogen and is involved in the differentiation, maturation, andproliferation of hematopoietic cells. Nature human IFNG is composed of 143amino acid residues without cysteine residues and is glycosylated.Proteolytic processing produces C-terminal heterogeneity, with proteinsending alternatively at Gly-150, Met-157 or Gly-161. |
| <b>Form</b>                    | Liquid.Phosphate buffered saline (pH 7.4).                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Molecular Weight</b>        | 18.5 kDa (159aa)confirmed by MALDI-TOF                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Purity</b>                  | > 90% by SDS-PAGE                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Concentration</b>           | 1 mg/ml(determined by Bradford assay)                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Sequences of aminoacids</b> | MGSSHHHHHH SSGLVPRGSH MQDPYVKEAE NLKKYFNAGHSDVADNGTLF<br>LGILKNWKEE SDRKIMQSQI VSFYFKLFKN FKDDQSIQKS VETIKEDMNV<br>KFFNSNKKKRDDFEKLTNYS VTDLNVQRKA IHELIQVMAE LSPAAGTGKR                                                                                                                                                                                                                                             |

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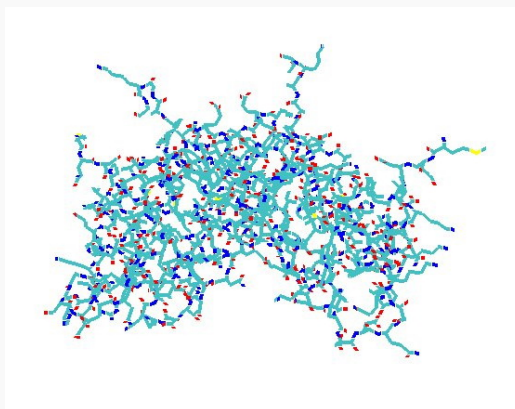
|                                |                                                                                                                                                                                                                                                                                                                                              |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                | KRSQMLFRG                                                                                                                                                                                                                                                                                                                                    |
| <b>Storage</b>                 | Can bestored at +4°C short term (1-2 weeks). For long term storage, aliquot andstore at -20°C or -70°C. Avoid repeated freezing and thawing cycles.                                                                                                                                                                                          |
| <b>OfficialSymbol</b>          | IFNG                                                                                                                                                                                                                                                                                                                                         |
| <b>nullValue_other</b>         | Pathway<br>Allograft rejection; Cytokine-cytokine receptor interaction;Graft-versus-host disea<br>se; Jak-STAT signaling pathway; Natural killer cellmediated cytotoxicity; Proteaso<br>me; Regulation of autophagy; Systemic lupuserythematosus; T cell receptor signali<br>ng pathway; TGF-beta signaling pathway;Type I diabetes mellitus |
| <b>GENE INFORMATION</b>        |                                                                                                                                                                                                                                                                                                                                              |
| <b>Gene Name</b>               | IFNG interferon, gamma [ Homosapiens ]                                                                                                                                                                                                                                                                                                       |
| <b>Synonyms</b>                | IFNG; Interferon, gamma; IFG; IFI;IFN-gamma; Immune interferon; Type II interferon;<br>T cell interferon; MAF; OTTHUMP00000240111;interferon gamma                                                                                                                                                                                           |
| <b>Gene ID</b>                 | 3458                                                                                                                                                                                                                                                                                                                                         |
| <b>mRNA Refseq</b>             | NM_000619                                                                                                                                                                                                                                                                                                                                    |
| <b>Protein Refseq</b>          | NP_000610                                                                                                                                                                                                                                                                                                                                    |
| <b>MIM</b>                     | 147570                                                                                                                                                                                                                                                                                                                                       |
| <b>UniProt ID</b>              | P01579                                                                                                                                                                                                                                                                                                                                       |
| <b>Chromosome<br/>Location</b> | 12q14                                                                                                                                                                                                                                                                                                                                        |

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Line representation  
of the  
crystallographic  
structure  
of interferon gamma.



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