

Active GMP Recombinant Human IFNG protein

Cat. No. IFNG-158HG Lot. No. (See product label)

SPECIFICATION

Product Overview	Active GMP Recombinant Human IFNG protein was expressed in E. coli.
Species	Human
Source	E. coli
Form	Lyophilized from a 0.2 µ filtered concentrated solution in PBS, 3% Trehalose, pH 5.0.
Bio-activity	Assay #1: Fully biologically active when compared to standard. The ED50 as measured in anti-viral assays using human HeLa cells infected with encephalomyocarditis (EMC) virus is 0.15-0.80 ng/mL. The specific activity of recombinant human IFN-γ is > 1.0 × 10 ⁷ IU/mg, which is calibrated against rHuIFN-γ WHO International Standard (NIBSC code: 87/586). Assay #2: The ED50 as determined by a cytotoxicity assay using human MCF-7 cells is less than 14 ng/mL.
Molecular Mass	Approximately 16.9 kDa, a single non-glycosylated polypeptide chain containing 144 amino acids.
AASequence	MQDPYVKEAE NLKKYFNAGH SDVADNGTLF LGILKNWKEE SDRKIMQSQI VSFYFKLFKN FKDDQSIQKS VETIKEDMNV KFFNSNKKKR DDFEKLTNYS VTDLNVQRKA IHELIQVMAE LSPAAGTKGR KRSQMLFRGR RASQ
Endotoxin	Less than 0.01 EU/g of rHuIFN-γ GMP as determined by LAL method.
Purity	> 98 % by SDS-PAGE and HPLC analyses.

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Storage

Use a manual defrost freezer and avoid repeated freeze-thaw cycles. - 12 months from date of receipt, -20 to -70 °C as supplied. - 1 month, 2 to 8 °C under sterile conditions after reconstitution. - 3 months, -20 to -70 °C under sterile conditions after reconstitution.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.

GENE INFORMATION

Gene Name

IFNG interferon, gamma [[Homo sapiens](#)]

Official Symbol

IFNG

Synonyms

IFNG; interferon, gamma; interferon gamma; IFN-gamma; immune interferon; IFG; IFI;

Gene ID

3458

mRNA Refseq

[NM_000619](#)

Protein Refseq

[NP_000610](#)

MIM

147570

UniProt ID

[P01579](#)

SDS-PAGE

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