

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 $> 1.0 \times 10^7$ 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 LSPAAGTGKR 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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HPLC