



Recombinant Human IFN- γ

Product Details

Catalogue Number: PEP-300-02

Description:

IFN- γ is an acid-labile interferon produced by CD4 and CD8 T lymphocytes as well as activated NK cells. IFN- γ receptors are present in most immune cells, which respond to IFN- γ signaling by increasing the surface expression of class I MHC proteins. This promotes the presentation of antigen to T-helper (CD4+) cells. IFN- γ signaling in antigen-presenting cells, and antigen-recognizing B and T lymphocytes, regulates the antigen-specific phases of the immune response. Additionally, IFN- γ stimulates a number of lymphoid cell functions, including the anti-microbial and anti-tumor responses of macrophages, NK cells, and neutrophils. Human IFN- γ is species-specific and is biologically active only in human and primate cells. Recombinant Human IFN- γ is a 16.8 kDa protein containing 144 amino acid residues.

Source: *E. coli*

Synonyms: Immune Interferon, type II interferon, T cell interferon, MAF

AA Sequence: MQDPYVKEAE NLKKYFNAGH SDVADNGTLF LGILKNWKEE SDRKIMQSQI
VSFYFKLFKN FKDDQSIQKS VETIKEDMNV KFFNSNKKKR DDFEKLTNYS VTDLNVQRKA
IHELIQVMAE LSPAAGTGKR KRSQMLFQGR RASQ

Purity: \geq 98% by SDS-PAGE gel and HPLC analyses.

Biological Activity:

Assay #1: Determined by its ability to induce STAT1/STAT2 activation in Human COLO 205 ISRE LUC reporter cells.

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Assay #2: The **ED₅₀** determined by a cytotoxicity assay using HT-29 cells is ≤ 0.05 ng/ml, corresponding to a specific activity of $\geq 2 \times 10^7$ units/mg.

Calculated Molecular Weight:16.8 kDa

Accession Number:P01579.1

Gene ID:3458

Crossreactivity:

Bacteria, Fish + Virus, Human , Human + Bacteria, Human + Hamster, Human + Mouse, Human + Virus, Mandarin Fish, Monkey, Mouse, N/A, Pig, Rabbit, Rat

Country Of Origin: USA

Not for human use.

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