

GFH77 Recombinant Human IFN- γ

Description

Interferon γ (IFN- γ) is a type II interferon that is critical during adaptive and innate immune responses to infection. IFN- γ is produced by T cells and Natural Killer cells following antigen-specific activation. IFN- γ binds IFN- γ receptors (IFN- γ R1 and IFN- γ R2), which are expressed on most immune cells, to activate the JAK-STAT pathway. IFN- γ induced signaling increases the expression of class I major histocompatibility complex (MHC) molecules. Human IFN- γ is not cross-reactive with mouse IFN- γ .

Length	144 aa
Molecular Weight	16.9 kDa
Source	E. coli
Accession Number	P01579
Purity	$\geq 95\%$ determined by reducing and non-reducing SDS-PAGE

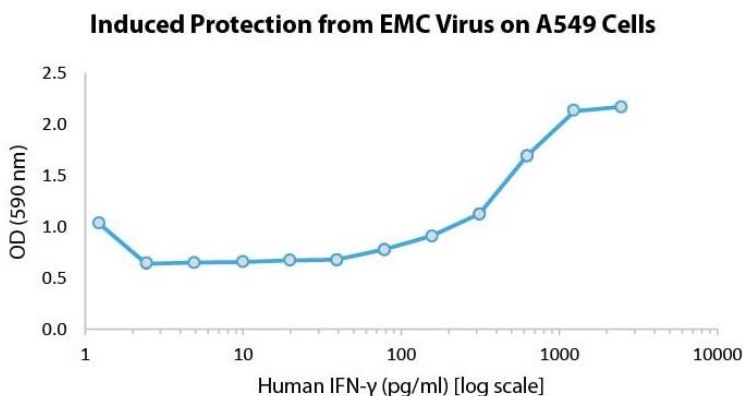
Specifications

Alternative Names	Interferon- γ , interferon-gamma, interferon gamma, type II interferon, T cell interferon, immune Interferon, MAF, IFG, IFI
Biological Activity	Human IFN- γ is fully biologically active when compared to standard. The activity is determined by the viral CPE assay using EMC virus on A549 cells. The activity corresponds to an expected specific activity of 1.0×10^7 units/mg.
Endotoxin Level	≤ 1.00 EU/ μ g as measured by kinetic LAL
Formulation	Lyophilized from a sterile filtered solution containing 10 mM sodium phosphate, 50 mM sodium chloride, pH 7.5
AA Sequence	MQDPYVKEAE NLKKYFNAGH SDVADNGTLF LGILKNWKEE SDRKIMQSQI VSFYFKLFKN FKDDQSIQKS VETIKEDMNV KFFNSNKKKR DDFEKLTYNS VTDLNVQRKA IHELIQVMAE LSPAAKTGKR KRSQMLFQGR RASQ

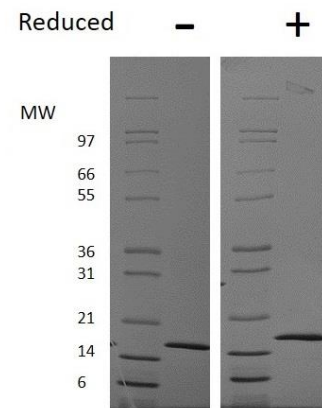
Preparation and Storage

Reconstitution	Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at 0.1 mg/ml, which can be further diluted into other aqueous solutions. If a precipitate is observed, centrifuge the solution thoroughly and use only the soluble fraction (removing it from the precipitate). A 10% overfill has been added to compensate for any loss of protein in the precipitate.
Stability and Storage	12 months from date of receipt when stored at -20°C to -80°C as supplied. 1 month when stored at 4°C after reconstituting as directed. 3 months when stored at -20°C to -80°C after reconstituting as directed.

Data



Viral CPE assay using EMC virus on A549 cells for Human IFN- γ .



Non-reducing (-) and reducing (+) conditions in a 4 - 20% Tris-Glycine gel stained with Coomassie Blue. 1 μ g of protein was loaded in each lane. Human IFN- γ has a predicted Mw of 16.9 kDa.