

Active Recombinant Human IFNG Protein

Cat. No. IFNG-264I **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human IFNG Protein without tag was expressed in CHO.
Species	Human
Source	CHO
Description	Human Interferon gamma (hIFN-γ) is a macrophage-activating factor and the lone member of Interferon type II. The active form of IFN-γ is an antiparallel dimer that interacts with the receptor IFN-γR1 and sets off IFN-γ/JAK/STAT pathway. IFN-γ signaling does diverse biological functions primarily related to host defense and immune regulation, including antiviral and antibacterial defense, apoptosis, inflammation, and innate and acquired immunity. While IFN-γ-induced inflammatory cascade summons a variety of immune-related cell types, such as macrophages, natural killer (NK) cells and cytotoxic T lymphocytes (CTLs), IFN-γ is also implicated in resistance to NK cell and CTL responses and in immune escape in a variety of cancers.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	ED50 < 2 ng/mL, measured in a cytotoxicity assay using HT-29 cells, corresponding to a specific activity of > 5 $\times$ 10 ⁵ units/mg.
Molecular Mass	15-25 kDa, observed by non-reducing SDS-PAGE.

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AA Sequence	QDPYVKEAENLKKYFNAGHSDVADNGTLFLGILKNWKEESDRKIMQSQIVSFYFKLF KNFKDDQSIQKSVETIKEDMNVKFFNSNKKKRDDFEKLTNYSVTDLNVQRKAIHELIQ VMAELSPAAKTGKRKRSQMLFRGRRASQ
Endotoxin	< 0.2 EU/μg, determined by LAL method.
Purity	> 95% as analyzed by SDS-PAGE and HPLC.
Storage	Lyophilized recombinant Human Interferon gamma (IFN-γ) remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, rh IFN-γ should be stable up to 1 week at 4 centigrade or up to 2 months at -20 centigrade.
Storage Buffer	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH ₂ O or PBS at 100 μg/mL.

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

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MIM	147570
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UniProt ID	P01579
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