

Active Recombinant Human IFNG Protein

Cat. No. IFNG-115H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human IFNG Protein without tag was expressed in E. coli.
Species	Human
Source	E.coli
Description	Interferon gamma (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 1 major histocompatibility complex (MHC) molecules. Human IFN-γ is not cross-reactive with mouse IFN-γ.
Bio-activity	Activity of HEK-Blue™ IFN-γ Cells, ≤0.7 ng/mL; ≥1.4 x 10 ⁶ units/mg
Molecular Mass	Monomer, 16.9 kDa (144 aa)
AA Sequence	MQDPYVKEAENLKKYFNAGHSDVADNGTLFLGILKNWKEESDRKIMQSQIVSFYFKL FKNFKDDQSIQKSVETIKEDMNVKFFNSNKKKRDDFEKLTNYSVTDLNVQRKAIHELI QVMAELSPA AKTGKRKRSQMLFQGRRASQ
Endotoxin	≤1 EUs/μg, Kinetic LAL

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Purity	≥95%, Reducing and Non-Reducing SDS PAGE
Stability	12 months from date of receipt when stored at -20 to -80 centigrade as supplied. 1 month when stored at 4 centigrade after reconstituting as directed. 3 months when stored at -20 to -80 centigrade after reconstituting as directed.
Storage	Storage Prior to Reconstitution: -20 centigrade
Storage Buffer	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium phosphate, 50 mM sodium chloride, pH 7.5
Reconstitution	Sterile water at 0.1 mg/mL
Shipping	Room temperature
Instructions	Centrifuge vial before opening. Suspend the product by gently pipetting the above recommended solution down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution. 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. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution, store at -80 centigrade and avoid repeat freeze thaws.

GENE INFORMATION

Gene Name	IFNG interferon, gamma [Homo sapiens (human)]
Official Symbol	IFNG
Synonyms	IFNG; interferon, gamma; interferon gamma; IFN-gamma; immune interferon; IFG; IFI;

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Gene ID	3458
mRNA Refseq	NM_000619
Protein Refseq	NP_000610
MIM	147570
UniProt ID	P01579

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA