

Recombinant Human IFN gamma

Cat. No. IFNg-31H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human IFN gamma was produced in yeast and therefore does not have endotoxin, is naturally folded, and post-translationally modified.
Species	Human
Source	Yeast
Description	Interferon-gamma (IFN-gamma) is a dimerized soluble cytokine that is the only member of the type II class of interferons. This interferon was originally called macrophage-activating factor, a term now used to describe a larger family of proteins to which IFN-gamma belongs. IFN-gamma, or type II interferon, is a cytokine that is critical for innate and adaptive immunity against viral and intracellular bacterial infections and for tumor control. Aberrant IFN-gamma expression is associated with a number of autoinflammatory and autoimmune diseases. The importance of IFN-gamma in the immune system stems in part from its ability to inhibit viral replication directly, but, most important, derives from its immunostimulatory and immunomodulatory effects. IFN-gamma is produced predominantly by natural killer (NK) and natural killer T (NKT) cells as part of the innate immune response, and by CD4 and CD8 cytotoxic T lymphocyte (CTL) effector T cells once antigen-specific immunity develops.
Form	Lyophilized
Molecular Mass	16.8 kDa

 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

AA Sequence	QDPYVKEAEN LKKYFNAGHS DVADNGTLFL GILKNWKEES DRKIMQSQIV SFYFKLFKNF KDDQSIQKSV ETIKEDMNVK FFNSNKKKRD DFEKLTNYSV TDLNVQRKAI HELIQVMAEL SPAAKTGKRK RSQMLFRGRR ASQ (143)
Applications	The IFN gamma protein can be used in cell culture, as a IFN gamma ELISA Standard, and as a Western Blot Control.
Storage	-20 C
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
Chromosome Location	12q14
Pathway	ATF-2 transcription factor network, organism-specific biosystem; African

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trypanosomiasis, organism-specific biosystem; African trypanosomiasis, conserved biosystem; Allograft rejection, organism-specific biosystem; Allograft rejection, conserved biosystem; Amoebiasis, organism-specific biosystem; Amoebiasis, conserved biosystem;

Function

cytokine activity; interferon-gamma receptor binding;

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