Recombinant Human IFNG therapeutic protein (Interferon gamma-1b)

Cat. No. IFNG-P011H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human Interferon gamma-1b (140 residues), produced from E. coli. Production of Actimmune is achieved by fermentation of a genetically engineered Escherichia coli bacterium containing the DNA which encodes for the human protein. Purification of the product is achieved by conventional column chromatography. The sequence displayed is a cDNA sequence which codes for human interferon gamma, as described by Gray et. al. and not specifically interferon gamma 1b.
Species	Human
Source	E.coli
ProteinLength	146aa
Description	This gene encodes a member of the type II interferon family. The protein encoded is a soluble cytokine with antiviral, immunoregulatory and anti-tumor properties and is a potent activator of macrophages. Mutations in this gene are associated with aplastic anemia. The expression product is the active ingredient of Actimmune.
Molecular Mass	17.1 Kda
AA Sequence	CYCQDPYVKEAENLKKYFNAGHSDVADNGTLFLGILKNWKEESDRKIMQSQIVSFYF KLFKNFKDDQSIQK SVETIKEDMNVKFFNSNKKKRDDFEKLTNYSVTDLNVQRKAIH ELIQVMAELSPAAKTGKRKRSQMLFRGR RASQ

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Endotoxin	< 1.0 EU per μg of the protein
Purity	>95%
Storage	Can be stored at +4 centigrade short term (1-2weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoidrepeated freezing and thawing cycles.
Alias	IFNG; IFN-gamma; IFG; IFI; Interferon gamma-1b

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

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Pathway	ATF-2 transcription factor network, organism-specific biosystem; African 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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