

Recombinant Human IFNB1 therapeutic protein(Interferon beta-1b)

Cat. No. IFNB1-P022H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human interferon beta (165 residues), cysteine 17 is substituted with serine. Produced in E. coli, no carbohydrates, MW=18.5kD
Species	Human
Source	E.coli
ProteinLength	165aa
Description	This gene encodes a cytokine that belongs to the interferon family of signaling proteins, which are released as part of the innate immune response to pathogens. The protein encoded by this gene belongs to the type I class of interferons, which are important for defense against viral infections. In addition, type I interferons are involved in cell differentiation and anti-tumor defenses. Following secretion in response to a pathogen, type I interferons bind a homologous receptor complex and induce transcription of genes such as those encoding inflammatory cytokines and chemokines. Overactivation of type I interferon secretion is linked to autoimmune diseases. Mice deficient for this gene display several phenotypes including defects in B cell maturation and increased susceptibility to viral infection.
Molecular Mass	20.0kDa
AA Sequence	MSYNLLGFLQRSSNFQSQKLLWQLNGRLEYCLKDRMNFDIPEEIKQLQQFQKEDAA LTIYEMLQNIFAIFR QDSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRG

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KLMSLHLKRYYYGRILHYLKAKEYSHCA WTIVRVEILRNIFYFINRLTGYLRN

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. Avoid repeated freezing and thawing cycles.

Alias IFNB1; IFNB; IFB; IFF; IFN-beta; Interferon beta-1b

GENE INFORMATION

Gene Name IFNB1 interferon, beta 1, fibroblast [Homo sapiens]

Official Symbol IFNB1

Synonyms IFNB1; interferon, beta 1, fibroblast; IFNB; interferon beta; IFB; IFF; IFN-beta; fibroblast interferon; MGC96956;

Gene ID 3456

mRNA Refseq NM_002176

Protein Refseq NP_002167

MIM 147640

UniProt ID P01574

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Chromosome Location	9p22
Pathway	Chagas disease (American trypanosomiasis), organism-specific biosystem; Chagas disease (American trypanosomiasis), conserved biosystem; Cytokine Signaling in Immune system, organism-specific biosystem; Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Cytokines and Inflammatory Response, organism-specific biosystem; Cytosolic DNA-sensing pathway, organism-specific biosystem;
Function	cytokine activity; interferon-alpha/beta receptor binding; transcription corepressor activity;

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