

Active Recombinant Human Interferon, Beta 1, Fibroblast

Cat. No. IFNB1-93H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human interferon-beta-1b (IFN- β -1b) produced in <i>Pseudomonas fluorescens</i> contains a Cys17Ser substitution; and after expression, lacks the N-terminal methionine. MW = 19.9 kDa.
Species	Human
Source	<i>Pseudomonas Fluorescens</i>
Description	Human interferon beta (IFN- β) is produced in many cell types in response to viral infection, microorganisms, double-stranded RNA, and certain cytokines. IFN- β is known to regulate genes involved in antiviral, antiproliferative, and immunomodulatory activities. Endogenously expressed IFN- β -1a is a glycoprotein; however, nonglycosylated versions have demonstrated similar activities.
N-terminal Sequence	Ser-Tyr-Asn-Leu-Leu.
Purity	>97%, by SDS-CGE under reducing condition.
Formulation	Lyophilized with sucrose and glycine.
Endotoxin Level	<1.0 EU per 1 μ g of the protein by the LAL method.
Activity	Measured in a viral inhibition (CPE) assay using EMC virus on A549 cells. Measured in an interferon receptor-2 binding assay.

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Storage

Store at 2-8°C upon receipt, preferably desiccated. Reconstitute aseptically in sterile 20 mM acetic acid, pH 4.0, to a final IFN-β concentration of 0.15-0.25 mg/mL. A carrier (such as albumin) is recommended if further dilution is needed. Store reconstituted IFN-β at -20°C (not in a frost-free freezer). Avoid repeated freeze-thaw.

GENE INFORMATION
Gene Name

IFNB1 interferon, beta 1, fibroblast [[Homo sapiens](#)]

Synonyms

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

Gene ID

[3456](#)

mRNA Refseq

[NM_002176](#)

Protein Refseq

[NP_002167](#)

MIM

[147640](#)

UniProt ID

[P01574](#)

Chromosome Location

9p21

Pathway

Chagas disease; Cytokine-cytokine receptor interaction; Cytosolic DNA-sensing pathway; Jak-STAT signaling pathway; Natural killer cell mediated cytotoxicity; RIG-I-like receptor signaling pathway; Toll-like receptor signaling pathway

Function

cytokine activity; interferon-alpha/beta receptor binding; transcription corepressor activity

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