

Active Recombinant Human Interferon, Beta 1, Fibroblast

Cat. No. IFNB1-35H Lot. No. (See product label)

SPECIFICATION

Species Human

Source E.coli

Description


Interferon β is one of the type I interferons produced by fibroblasts in response to stimulation by live or inactivated virus or by double-stranded RNA. It is a cytokine with antiviral, antiproliferative, and immunomodulating activity. The synthesis of IFN- β can be induced by common inducers of interferons, including viruses, double-stranded RNA, and microorganisms. It is induced also by some cytokines such as TNF and IL-1. Recombinant human IFN- β 1b produced in *E. coli* is a single, non-glycosylated form of human Interferon β 1b polypeptide chain containing 165 amino acids and having a molecular mass of 18.511 kDa. The Interferon β gene was cloned from human fibroblasts and altered to substitute Serine for the Cysteine residue found at position 17. IFN- 1b is purified by proprietary chromatographic techniques.

Endotoxin Less than 0.1 ng/ μ g (IEU/ μ g) of IFN- β .


Purity \geq 98% by SDS-PAGE, RP-HPLC and FPLC.

Form Lyophilized.

Solubility It is recommended to reconstitute the lyophilized IFN- β in sterile bidest H₂O not less than 100 μ g/ml, which can then be further diluted to other aqueous solutions.

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Activity	EC ₅₀ : 3.2 x 10 ⁷ IU/mg, determined in a viral resistance assay (human "Wish" cell line and VSV virus or the monkey VERO cell line with EMCV virus).
Storage	Quality guaranteed for 12 months. Store at -20°C. Avoid freeze / thaw cycles.
Usage	For in vitro use only.

GENE INFORMATION

Gene Name	IFNB1 interferon, beta 1, fibroblast [Homo sapiens]
Synonyms	IFNB1; Interferon, beta 1, fibroblast; IFB; IFF; IFNB; MGC96956; Interferon beta; Leukocyte interferon; B cell interferon; Type I interferon; IFNB1; IFN-b 1a; IFN-beta; OTTHUMP00000021131; Fibroblast interferon
Gene ID	3456
mRNA Refseq	NM_002176
Protein Refseq	NP_002167
MIM	147640
UniProt ID	P01574
Chromosome Location	9p21
Pathway	Cytokine-cytokine receptor interaction; Jak-STAT signaling pathway; Natural killer cell mediated cytotoxicity; Toll-like receptor signaling pathway

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Function

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

PDB rendering based on 1au1.



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