

Recombinant Mouse Interferon Beta 1, Fibroblast

Cat. No. Ifnb1-37M Lot. No. (See product label)

SPECIFICATION

| | |
|----------------------------|---|
| Product Overview | Recombinant Mouse Interferon beta produced in <i>E. Coli</i> is a single, non-glycosylated polypeptide chain containing 162 amino acids and having a molecular mass of 19.8 kDa. Mouse IFN beta is purified by proprietary chromatographic techniques. |
| Species | Mouse |
| Source | E.coli |
| Description | Interferon-beta 1b has antiviral, antibacterial and anticancer activities. Influenza A viruses not only inhibit IFN-beta gene induction but also suppress Type-I IFN signaling via mechanism involving induction of the SOCS-3 protein. Intracellular bacteria and cytosolic poly (dA-dT) trigger IFN-beta responses in different human cells without requiring human ZBP1. |
| Amino Acid Sequence | MINYKQLQLQERTNIRKQCQELLEQLNGKINLTYRADFKIPMEMTEKMQKSYTAFAIQE MLQN VFLVFRNNFSS TGWNETIVRLLDELHQQT VFLKTVLE EKQEERLT WEMSS TAL HLKSYWVRVQRYLKLKMKYNSYAWMVVRAEIFR NFLIIRRLTRNFQN. |
| Purity | Greater than 90.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE. |
| Formulation | IFN-b Mouse solution containing 10mM sodium phosphate pH-7.5 and 0.5M ammonium sulfate. |
| Biological Activity | Determined in a viral cytopathic effect inhibition assay. |

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Stability Store the IFN-beta at 4°C for 4 weeks. Do not freeze/thaw.

GENE INFORMATION

Gene Name [Ifnb1 interferon beta 1, fibroblast \[Mus musculus \]](#)

Synonyms Ifnb1; interferon beta 1, fibroblast; Ifb; IFNB; IFN-beta; OTTMUSP00000008111; IFB; IFF; IFN-beta; MGC96956; OTTHUMP00000021131; Fibroblast interferon; interferon beta

Gene ID [15977](#)

mRNA Refseq [NM_010510](#)

Protein Refseq [NP_034640](#)

UniProt ID [P01575](#)

Chromosome Location 4 42.6 cM

Pathway Cytokine-cytokine receptor interaction; Jak-STAT signaling pathway; Natural killer cell mediated cytotoxicity; Toll-like receptor signaling pathway

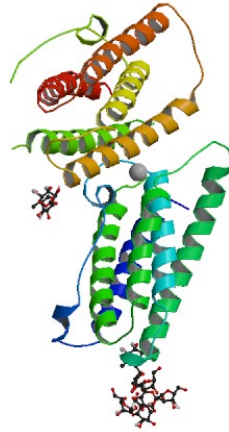
Function cytokine activity; cytokine receptor binding

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PDB rendering based
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