

Active Recombinant Human IFNB1 Protein (Met22-Asn187), C-His tagged, Animal-free, Carrier-free

Cat. No. IFNB1-155H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human IFNB1 Protein (Met22-Asn187) with C-His tag was expressed in E. coli and Animal-free as well as Carrier-free.
Species	Human
Source	E.coli
ProteinLength	Met22-Asn187
Description	Interferon-Beta 1a (IFN-beta 1a) is a leukocyte interferon, which is a variant of Interferon-beta. IFN-beta 1a is a 19 kDa protein containing 166 amino acid residues. It could bind the interferon receptors that activates the signal transduction of immune responses through the Jak/STAT pathway in leukocytes and lymphoblastoid cells.
Form	Lyophilized
Bio-activity	Measure by its ability to induce apoptosis in HeLa cells. The ED50 for this effect is < 15 ng/mL. Measure by its ability to induce cytotoxicity in TF-1 cells. The ED50 for this effect is < 0.1 ng/mL. The specific activity of recombinant human IFN beta 1a is approximately $>1 \times 10^7$ IU/ mg.
Molecular Mass	The protein has a calculated MW of 20.84 kDa. The protein migrates as 15 kDa under reducing condition (SDS-PAGE analysis).

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Endotoxin	< 0.1 EU/μg of the protein by the LAL method.
Purity	>98% as determined by SDS-PAGE analysis.
Storage	This product is stable after storage at: -20 centigrade for 12 months in lyophilized state from date of receipt. -20 or -80 centigrade for 1 month under sterile conditions after reconstitution. Avoid repeated freeze/thaw cycles.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution of PBS, pH 8.0.
Reconstitution	It is recommended to reconstitute the lyophilized protein in sterile H ₂ O to a concentration not less than 200 μg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at -20 centigrade or lower for long term storage.

GENE INFORMATION

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

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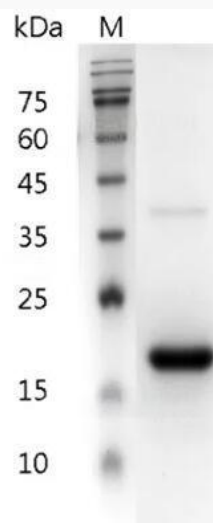
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Protein Refseq NP_002167

MIM 147640

UniProt ID P01574

**SDS-PAGE analysis
of recombinant
human IFN Beta 1a.**



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