

Active Recombinant Human IFNB1 Protein

Cat. No. IFNB1-186I **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human IFNB1 Protein without tag was expressed in HEK 293.
Species	Human
Source	HEK293
Description	Interferon-beta (IFN- β), acting via STAT1 and STAT2, is known to upregulate and downregulate a wide variety of genes, most of which are involved in the antiviral immune response. It is a member of Type I IFNs, which include IFN- α , - β , τ , and - ω . IFN- β plays an important role in inducing non-specific resistance against a broad range of viral infections. It also affects cell proliferation and modulates immune responses.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	ED50 < 0.1 ng/mL, measured in a proliferation assay using TF-1 Cells.
Molecular Mass	~23 kDa, observed by reducing SDS-PAGE.
AA Sequence	MSYNLLGFLQRSSNFQCQKLLWQLNGRLEYCLKDRMNFDIPEEIKQLQQFQKEDAA LTIYEMLQNIFAIFRQDSSSTGWNETIVENLLANVYHQINHLKTVLEEKLEKEDFTRGK LMSSLHLKRYYGRIHLHYLKAKEYSHCAWTIVRVEILRNFYFINRLTGYLRN
Endotoxin	< 0.2 EU/ μ g, determined by LAL method.

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Purity	> 95% as analyzed by SDS-PAGE.
Storage	Lyophilized recombinant Human Interferon-beta remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, Human Interferon-beta should be stable up to 1 week at 4 centigrade or up to 2 months at -20 centigrade.
Storage Buffer	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH ₂ O or PBS at 100 µg/mL.

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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