

Recombinant Mouse Interferon Beta 1, Fibroblast

Cat. No. Ifnb1-684M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouselfnb1 was expressed in E.coli.
Species	Mouse
Source	E.coli
Description	Ifnb1 is a protein that in humans is encoded by the Ifnb1 gene.
Form	Liquid in PBS, carrier free.
Molecular Weight	19.6 kDa
Concentration	1 x 10 ⁶ units/ml
Purity	> 95%
Endotoxin Level	< 0.1 EU/μg Ifnb1.
Purification	Combination of ion exchange, hydrophobic interaction, and size exclusion chromatography.
Specific Activity	Ifnb1 was titrated with the use of the cytopathic effect inhibition assay. Units of activity were measured on mouse L929 cells with encephalomyocarditis virus (EMCV); in this assay, the EC ₅₀ for Ifnb1 is ~ 2.5 U/ml. The activity was determined relative to a lab standard of mouse Ifnb1 which was calibrated to the NIH Mouse Ifnb1 standard.

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Storage

Store in working aliquots at -80°C. Further dilutions should be made in buffers containing proteins such as 0.1% BSA. Please note that the addition of any carrier protein into this product may produce unwanted endotoxin. This depends upon the particular application employed. Avoid repeated freeze-thaw cycles.

Official Symbol

Ifnb1

GENE INFORMATION

Gene Name

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

Synonyms

Ifnb1; interferonbeta 1, fibroblast; Ifb; IFNB; IFN-beta; interferon beta; OTTMUSP00000008111

Gene ID

[15977](#)

mRNA Refseq

[NM_010510](#)

Protein Refseq

[NP_034640](#)

Chromosome

4 C4; 442.6 cM

Location

Pathway

Chagas disease(American trypanosomiasis); Cytokine-cytokine receptor interaction; Cytokines and Inflammatory Response (BioCarta); Cytosolic DNA-sensing pathway; Hepatitis C; Herpes simplex infection; Influenza A; Jak-STAT signaling pathway; Measles; Natural killer cell mediated cytotoxicity; Osteoclast; Osteoclast differentiation; RIG-I-like receptor signaling pathway; Senescence and Autophagy; Toll-like receptor signaling pathway; Tuberculosis; Type II interferon signaling (IFNG)

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Function	cytokine activity;cytokine receptor binding; transcription corepressor activity
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