

## Recombinant Active Mouse IFNB1 Protein, His-tagged(C-ter)

**Cat. No.** Ifnb1-117M    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
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| <b>Product Overview</b> | Recombinant Active Mouse IFNB1 Protein with His tag (C-ter) was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Description</b>      | <p>This gene encodes a cytokine that belongs to the interferon family of signaling proteins, which are released as part of the innate immune response to pathogens. The protein encoded by this gene belongs to the type I class of interferons, which are important for defense against viral infections. In addition, type I interferons are involved in cell differentiation and anti-tumor defenses. Following secretion in response to a pathogen, type I interferons bind a homologous receptor complex and induce transcription of genes such as those encoding inflammatory cytokines and chemokines. Overactivation of type I interferon secretion is linked to autoimmune diseases. Mice deficient for this gene display several phenotypes including defects in B cell maturation and increased susceptibility to viral infection. [provided by RefSeq, Sep 2015]</p> |
| <b>Form</b>             | Powder                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Bio-activity</b>     | Measure by its ability to protect HeLa cells infected with encephalomyocarditis (EMC) virus. The ED50 for this effect is < 5 pg/ml. The specific activity of recombinant mouse IFN beta 1a is > 1 x 10 <sup>9</sup> IU/mg.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

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|                       |                                                                                                                                                                                                                                                             |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Molecular Mass</b> | ~ 20 kDa                                                                                                                                                                                                                                                    |
| <b>AA Sequence</b>    | MINYKQLQLQERTNIRKCQELLEQLNGKINLTYRADFKIPMEMTEKMQKSYTAFAIQE<br>MLQNVFLVFRNFSSTGWNETIVRLLDELHQQTVFLKTVLEEKQEERLTWEMSSSTAL<br>HLKSYWVRVQRYLKLMKYNSYAWMVVRAEIFRNFLIIRRLTRNFQN                                                                                   |
| <b>Endotoxin</b>      | Endotoxin level is less than 0.1 EU/μg of the protein, as determined by the LAL test.                                                                                                                                                                       |
| <b>Purity</b>         | > 98% (by SDS-PAGE)                                                                                                                                                                                                                                         |
| <b>Applications</b>   | SDS-PAGE                                                                                                                                                                                                                                                    |
| <b>Notes</b>          | For laboratory research only, not for drug, diagnostic or other use.                                                                                                                                                                                        |
| <b>Storage</b>        | Lyophilized protein should be stored at -20°C. After reconstitution, aliquot and store at -20°C or -80°C for up to one month. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. |
| <b>Storage Buffer</b> | PBS (pH 7.4)                                                                                                                                                                                                                                                |
| <b>Reconstitution</b> | It is recommended to reconstitute the lyophilized protein in sterile water to a concentration not less than 100 μg/mL and incubate the stock solution for at least 20 min at room temperature to make sure the protein is dissolved completely.             |

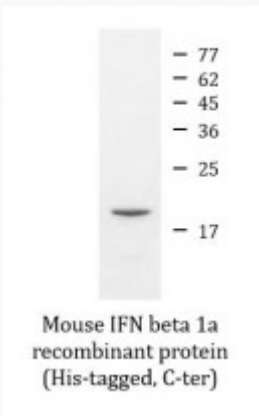
## GENE INFORMATION

|                        |                                                                      |
|------------------------|----------------------------------------------------------------------|
| <b>Gene Name</b>       | <a href="#">Ifnb1 interferon beta 1, fibroblast [ Mus musculus ]</a> |
| <b>Official Symbol</b> | <a href="#">Ifnb1</a>                                                |

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| <b>Synonyms</b>       | IFNB1; interferon beta 1, fibroblast; interferon beta; Ifb; IFNB; IFN-beta;                                                                                  |
| <b>Gene ID</b>        | 15977                                                                                                                                                        |
| <b>mRNA Refseq</b>    | NM_010510                                                                                                                                                    |
| <b>Protein Refseq</b> | NP_034640                                                                                                                                                    |
| <b>SDS-PAGE</b>       |  <p>Mouse IFN beta 1a<br/>recombinant protein<br/>(His-tagged, C-ter)</p> |