

## Recombinant Mouse interferon beta 1, fibroblast Protein, Tag Free

**Cat. No.** Ifnb1-178M    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant mouse IFN-beta protein (P01575) (Ile 22-Asn 182) without tag was expressed in HEK293.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>ProteinLength</b>    | 22-182aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <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.</p> |
| <b>Tag</b>              | Non                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Molecular Mass</b>   | 20.1 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

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|                       |                                                                                                                                                                                                                               |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Endotoxin</b>      | Less than 1.0 EU/μg by the LAL method.                                                                                                                                                                                        |
| <b>Purity</b>         | >95% as determined by SDS-PAGE.                                                                                                                                                                                               |
| <b>Storage</b>        | Please avoid repeated freeze-thaw cycles. Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade. It is recommended that aliquot the reconstituted solution to minimize freeze-thaw cycles. |
| <b>Storage Buffer</b> | Lyophilized from a 0.2 μm filtered solution of PBS, pH7.4, 5% Trehalose, 5% mannitol.                                                                                                                                         |
| <b>Reconstitution</b> | Reconstitute at 250 μg/mL in sterile water.                                                                                                                                                                                   |

## GENE INFORMATION

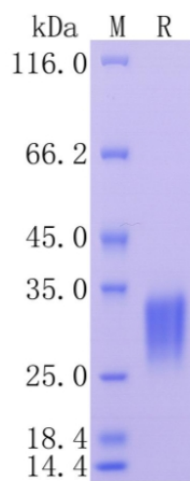
|                        |                                                                                                    |
|------------------------|----------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | <a href="#">Ifnb1</a> interferon beta 1, fibroblast [ <a href="#">Mus musculus</a> (house mouse) ] |
| <b>Official Symbol</b> | <a href="#">Ifnb1</a>                                                                              |
| <b>Synonyms</b>        | IFNB1; interferon beta 1, fibroblast; interferon beta; Ifb; IFNB; IFN-beta;                        |
| <b>Gene ID</b>         | <a href="#">15977</a>                                                                              |
| <b>mRNA Refseq</b>     | <a href="#">NM_010510</a>                                                                          |
| <b>Protein Refseq</b>  | <a href="#">NP_034640</a>                                                                          |
| <b>UniProt ID</b>      | <a href="#">P01575</a>                                                                             |

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**Protein on SDS-  
PAGE under  
reducing (R)  
condition.**



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