

## Active Recombinant Mouse IfnI2 Protein

Cat. No. IfnI2-145M    Lot. No. (See product label)

### SPECIFICATION

|                         |   |
|-------------------------|---|
| <b>Product Overview</b> | Purified recombinant protein of Mouse interleukin 28A (Il28a) without tag was expressed in E.coli.  |
| <b>Species</b>          | Mouse   |
| <b>Source</b>           | E.coli  |
| <b>Description</b>      | Cytokine with antiviral, antitumour and immunomodulatory activities. Plays a critical role in the antiviral host defense, predominantly in the epithelial tissues. Acts as a ligand for the heterodimeric class II cytokine receptor composed of IL10RB and IFNLR1, and receptor engagement leads to the activation of the JAK/STAT signaling pathway resulting in the expression of IFN-stimulated genes (ISG), which mediate the antiviral state. Has a restricted receptor distribution and therefore restricted targets: is primarily active in epithelial cells and this cell type-selective action is because of the epithelial cell-specific expression of its receptor IFNLR1. Seems not to be essential for early virus-activated host defense in vaginal infection, but plays an important role in Toll-like receptor (TLR)-induced antiviral defense. Plays a significant role in the antiviral immune defense in the intestinal epithelium. Exerts an immunomodulatory effect by up-regulating MHC class I antigen expression |
| <b>Bio-activity</b>     | Determined by its ability to activate STAT following receptor-ligand interaction.   |
| <b>Molecular Mass</b>   | 19.8 kDa  |
| <b>AA Sequence</b>      | MDPVPRATRLPVEAKDCHIAQFKSLSPKELQAFKKAKDAIEKRLLLEKDMRCSHLISR  |

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AWDLKQLQVQERPKALQAEVALTLKVWENMTDSALATILGQPLHTLSHIHSQLQTCT  
 QLQATAEPKPPSRRLSRWLHRLQEAQSKETPGCLEDSVTSNLFRLLTRDLKCVASG  
 DQCV

**Endotoxin** Endotoxin level is < 0.1 ng/g of protein (< 1 EU/g)

**Purity** >95%, as determined by SDS-PAGE and Coomassie blue staining

**Stability** Stable for at least 6 months from date of receipt under proper storage and handling conditions.

**Storage** Store at -80 centigrade.

**Storage Buffer** Lyophilized from a 0.2 M filtered solution of 20mM phosphate buffer, 100mM NaCl, pH 7.2

**Reconstitution** Resuspend the protein in the desired concentration in proper buffer.

## GENE INFORMATION

**Gene Name** [Ifnl2 interferon lambda 2 \[ Mus musculus \(house mouse\) \]](#)

**Official Symbol** [Ifnl2](#)

**Synonyms** Ifnl2; interferon lambda 2; Il28a; IL-28A; EG330496; interferon lambda-2; IFN-lambda-2; IFN-lambda2; interferon-lambda2; interleukin-28A

**Gene ID** [330496](#)

**mRNA Refseq** [NM\\_001024673](#)

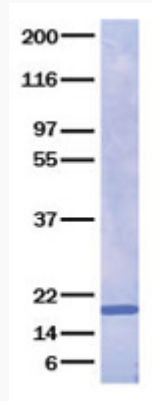
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**Protein Refseq** NP\_001019844

**UniProt ID** Q4VK74



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