

# Recombinant Mouse Interferon Gamma Receptor 1, Fc-tagged

**Cat. No.** Ifngr1-1748M    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Mouse Ifngr1 encoding the extracellular domain was fused to the carboxy-terminal Fc region of human IgG1 via a linker peptide, inserted into a suitable mammalian expression vector and expressed in <i>NSO cells</i> .                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Source</b>           | Mammalian Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Description</b>      | IFN- $\gamma$ receptor ligand-binding chain (IFN $\gamma$ R1) or IFN- $\gamma$ R $\alpha$ chain, also known CDw119, is member of the class II cytokine receptor family. The IFN- $\gamma$ receptor is a complex of a high affinity IFN- $\gamma$ -binding chain (aka, IFN- $\gamma$ R $\alpha$ chain) and a second accessory protein required for signal transduction known as IFN- $\gamma$ R $\beta$ chain. Binding of IFN- $\gamma$ induces receptor dimerization and internalization. Signal transduction involves Jak1 and Jak2 protein kinases and involves STAT1 activation. The IFN- $\gamma$ receptor is expressed at moderate levels on virtually every cell with the exception of erythrocytes. |
| <b>Molecular Weight</b> | The predicted molecular weight of Recombinant Mouse IFN- $\gamma$ R1 is Mr 52 kDa. However, the actual molecular weight as observed by migration on SDS Page is Mr 70-90 kDa.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>State Of Matter</b>  | Lyophilized.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Purity</b>           | >95% by SDS Page and analyzed by silver stain.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

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|                              |                                                                                                                                                                                                                                                                                                                                                 |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Endotoxin</b>             | <1.0 EU/g as determined by the LAL method.                                                                                                                                                                                                                                                                                                      |
| <b>Biological Activity</b>   | The biological activity of Mouse IFN-γ R1 was determined by its ability to inhibit rmIFN-γ mediated protection of mouse L929 cells viral lysis. The expected ED50 is typically 0.4 - 2 µg/mL in the presence of 1 ng/mL of rmIFN-γ.                                                                                                             |
| <b>Storage And Stability</b> | This lyophilized protein is stable for six to twelve months when stored desiccated at -20°C to -70°C. After aseptic reconstitution, this protein may be stored at 2°C to 8°C for one month or at -20°C to -70°C in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles. See Product Insert for exact lot specific storage instructions. |

## GENE INFORMATION

|                            |                                                                                                               |
|----------------------------|---------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | <a href="#">Ifngr1</a> <a href="#">interferon gamma receptor 1</a> [ <a href="#">Mus musculus</a> ]           |
| <b>Synonyms</b>            | Ifngr1; interferon gamma receptor 1; Ifgr; CD119; Ifngr; Nktar; IFN-gammaR; IFN-gamma R; INF-g receptor       |
| <b>Gene ID</b>             | <a href="#">15979</a>                                                                                         |
| <b>mRNA Refseq</b>         | <a href="#">NM_010511</a>                                                                                     |
| <b>Protein Refseq</b>      | <a href="#">NP_034641</a>                                                                                     |
| <b>UniProt ID</b>          | <a href="#">P15261</a>                                                                                        |
| <b>Chromosome Location</b> | 10 A3; 10 15.0 cM                                                                                             |
| <b>Pathway</b>             | Cytokine-cytokine receptor interaction; Jak-STAT signaling pathway; Natural killer cell mediated cytotoxicity |

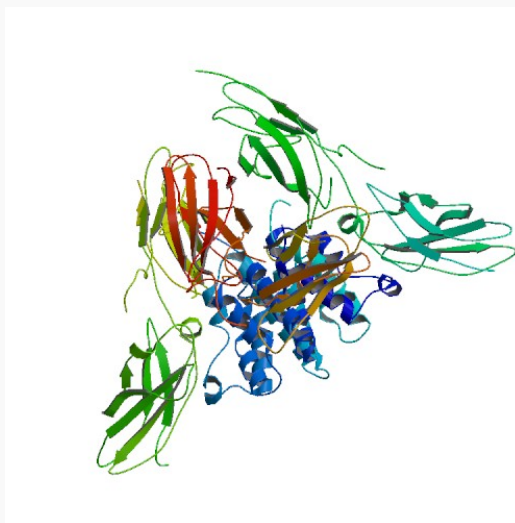
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**Function** cytokine binding; receptor activity

PDB rendering based  
on 1fg9.



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