

Recombinant Mouse Interferon Gamma Receptor 1, Fc-tagged

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

SPECIFICATION

Product Overview	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> .
Species	Mouse
Source	Mammalian Cells
Description	IFN- γ receptor ligand-binding chain (IFN γ R1) or IFN- γ R α chain, also known CDw119, is member of the class II cytokine receptor family. The IFN- γ receptor is a complex of a high affinity IFN- γ -binding chain (aka, IFN- γ R α chain) and a second accessory protein required for signal transduction known as IFN- γ R β chain. Binding of IFN- γ induces receptor dimerization and internalization. Signal transduction involves Jak1 and Jak2 protein kinases and involves STAT1 activation. The IFN- γ receptor is expressed at moderate levels on virtually every cell with the exception of erythrocytes.
Molecular Weight	The predicted molecular weight of Recombinant Mouse IFN- γ R1 is Mr 52 kDa. However, the actual molecular weight as observed by migration on SDS Page is Mr 70-90 kDa.
State Of Matter	Lyophilized.
Purity	>95% by SDS Page and analyzed by silver stain.

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Endotoxin	<1.0 EU/g as determined by the LAL method.
Biological Activity	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.
Storage And Stability	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

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

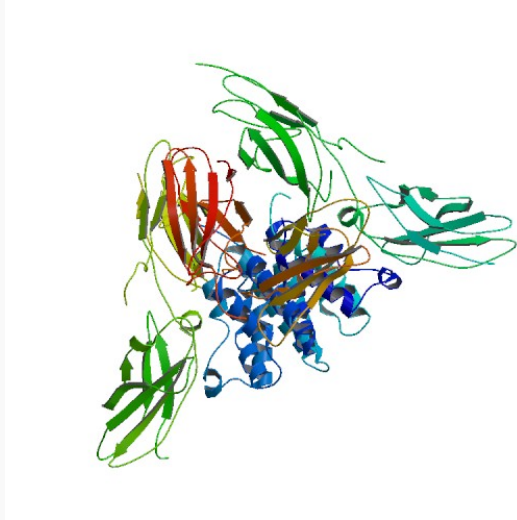
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Function cytokine binding; receptor activity

PDB rendering based on 1fg9.



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