

IFNGR1 active protein

IFNGR1 Protein, Mouse, Recombinant (hFc Tag)

CATALOG #
AAA258195

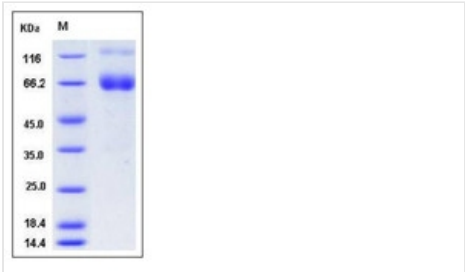
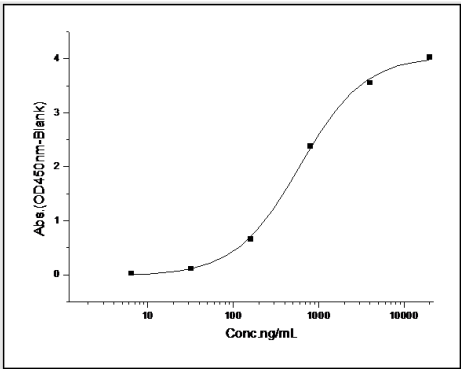
HOST
HEK293 Cells

PRODUCT SYNONYMS

IFNGR1; IFNGR1 Protein; Mouse; Recombinant (hFc Tag); Mouse IFNGR1/CD119 Protein (Fc Tag); CD119 Protein; Ifgr Protein; IFN-gammaR Protein; Ifngr Protein; Nktar Protein; interferon gamma receptor 1; IFNGR1 active protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>95% as determined by SDS-PAGE
Form/Format	Lyophilized from sterile PBS, pH7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of CoA.
Sequence	Met1-Asp25 3
Species	Mouse
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Gly 23
Tag	C-human IgG1-Fc
Protein Construction	A DNA sequence encoding the mouse IFNGR1 (P15261) extracellular domain (Met 1-Asp 253) was fused with the Fc region of human IgG1 at the C-terminus.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
Activity	Measured by its binding ability in a functional ELISA. Immobilized mouse IFNG-His at 10ug/ml (100uL/well) can bind mouse IFNGR1-Fc. The EC50 of IFNGR1-Fc is 58.2-135.9ng/mL.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice.



SDS-PAGE

Application Data
Measured by its binding ability in a functional ELISA. Immobilized mouse IFNG-His at 10 ug/ml (100 ul/well) can bind mouse IFNGR1-Fc. The EC50 of IFNGR1-Fc is 58.2-135.9 ng/ml.

ADDITIONAL INFORMATION

Related Product Information for IFNGR1 active protein	Background: The cluster of differentiation (CD) system is commonly used as cell markers in Immunophenotyping. Different kinds of cells in the immune system can be identified through the surface CD molecules associating with the immune function of the cell. There are more than 320 CD unique clusters and subclusters have been identified. Some of the CD molecules serve as receptors or ligands important to the cell through initiating a signal cascade which then alters the behavior of the cell. Some CD proteins do not take part in the cell signal process but have other functions such as cell adhesion. CD119 (cluster of differentiation 119), also known as IFNGR1 (interferon-gamma receptor 1), is part of the heterodimeric gamma interferon receptor which consists of IFNGR1 (CD119) and IFNGR2. The IFNGR1 gene encodes the ligand-binding chain (alpha) of the interferon receptor while the IFNGR gene encodes the non-ligand binding partner. The ability of the interferon-gamma was achieved through binding to the interferon receptor CD119. After binding, the products of activated T-lymphocytes interferon-gamma exerts antiviral activity, growth inhibitory effect, and several immune- regulatory activities on a variety of cell types.
References	Zola H, et al. (2007) CD molecules 2006-human cell differentiation molecules. J Immunol Methods. 318 (1-2): 1-5.Ho IC, et al. (2009) GATA3 and the T-cell lineage: essential functions before and after T-helper-2-cell differentiation. Nat Rev Immunol. 9 (2): 125-35.Matesanz-Isabel J, et al. (2011) New B-cell CD molecules. Immunology Letters.134 (2): 104-12Novick D, et al. (1987) The human interferon-gamma receptor. The journal of biological chemistry. 262 (18): 8483-7

NCBI AND UNIPROT INFORMATION

NCBI GI #	6754306
NCBI GeneID	15979
NCBI Accession #	NP_034641.1
NCBI GenBank Nucleotide #	NM_010511.2
UniProt Accession #	P15261; Q91Y85
Molecular Weight	52,343 Da
NCBI Official Full Name	interferon gamma receptor 1
NCBI Official Synonym Full Names	interferon gamma receptor 1
NCBI Official Symbol	Ifngr1
NCBI Official Synonym Symbols	Ifgr; CD119; Ifngr; Nktar; IFN-gammaR
NCBI Protein Information	interferon gamma receptor 1; IFN-gamma-R1; INF-g receptor; IFN-gamma receptor 1; interferon-gamma receptor 1
UniProt Protein Name	Interferon gamma receptor 1

UniProt Gene Name	Ifngr1
UniProt Synonym Gene Names	Ifngr; IFN-gamma receptor 1
UniProt Entry Name	INGR1_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/hek293-active-protein/ifngr1/258195>