

Recombinant Human IFNGR1 Protein, C-His-tagged

Cat. No. IFNGR1-062H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human IFNGR1 Protein with C-His tag was expressed in E. coli.
Species	Human
Source	E.coli
Description	IFN-γ plays key roles in both the innate and adaptive immune response. IFN-γ activates the cytotoxic activity of innate immune cells, such as macrophages and NK cells. IFN-γ production by NK cells and antigen presenting cells (APCs) promotes cell-mediated adaptive immunity by inducing IFN-γ production by T lymphocytes, increasing class I and class II MHC expression, and enhancing peptide antigen presentation. The anti-viral activity of IFN-γ is due to its induction of PKR and other regulatory proteins. Binding of IFN-γ to the IFNGR1/IFNGR2 complex promotes dimerization of the receptor complexes to form the (IFNGR1/IFNGR2)$_2$ -IFN-γ dimer. Binding induces a conformational change in receptor intracellular domains and signaling involves Jak1, Jak2, and Stat1. The critical role of IFN-γ in amplification of immune surveillance and function is supported by increased susceptibility to pathogen infection by IFN-γ or IFNGR knockout mice and in humans with inactivating mutations in IFNGR1 or IFNGR2. IFN-γ also appears to have a role in atherosclerosis.
Molecular Mass	~25 kDa
AA Sequence	EMGTADLGPSSVPTPTNVTIESYNNMNPVYWEYQIMPQVPVFTVEVKNYGVKNSEWI

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DACINISHHYCNISDHVGDPSNSLWVRVKARVGQKESAYAKSEEFVAVCRDGGKIGPPK
 LDIRKEEKQIMIDIFHPSVFNVDGEQEVDPETTCYIRVYNVYVRMNGSEIQYKILTQ
 KEDDCDEIQCQLAIPVSSLNSQYCVSAEGLVHVWGVVTEKSKEVCITIFNSSIKG

Purity

Transferred into competent cells and the supernatant was purified by NI column affinity chromatography and the purity is > 85% (by SDS-PAGE).

Notes

For research use only, not for use in diagnostic procedure.

Storage

Store at 4 centigrade short term. Aliquot and store at -20 centigrade long term. Avoid freeze-thaw cycles.

Concentration

≥0.5 mg/mL

Storage Buffer

PBS, 4M Urea, pH7.4

GENE INFORMATION

Gene Name

IFNGR1 interferon gamma receptor 1 [Homo sapiens (human)]

Official Symbol

IFNGR1

Synonyms

IFNGR1; interferon gamma receptor 1; IFNGR; CD119; CDw119; AVP, type 2; IFN-gamma-R1; CD119 antigen; IFN-gamma receptor 1; antiviral protein, type 2; immune interferon receptor 1; interferon-gamma receptor alpha chain; FLJ45734;

Gene ID

3459

mRNA Refseq

NM_000416

Protein Refseq

NP_000407

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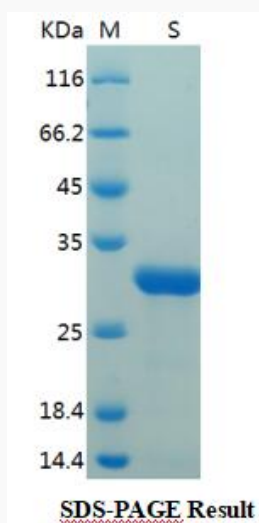
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MIM 107470

UniProt ID P15260

SDS-PAGE



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