

Active Recombinant Human Interferon Gamma Receptor 1

Cat. No. IFNGR1-596 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Interferon Gamma Receptor 1 mRNA (cDNA) obtained from human cells expressed in <i>insect cells (sf9)</i> .
Species	Human
Source	Sf9 Cells
Description	The human interferon-gamma receptor complex consists the heterodimer of two chains: IFNGR1 and IFNGR2. In unstimulated cells, these subunits are not preassociated with each other but rather associate through their intracellular domains with inactive forms of specific Janus family kinases (Jak1 and Jak2). Jak1 and Jak2 constitutively associate with IFNGR1 and IFNGR2, respectively. Binding of IFN-γ to IFNGR1 induces the rapid dimerization of IFNGR1 chains, thereby forming a site that is recognized by the extracellular domain of IFNGR2. The ligand-induced assembly of the complete receptor complex contains two IFNGR1 and two IFNGR2 subunits which bring into close juxtaposition the intracellular domains of these proteins together with the inactive Jak1 and Jak2 kinases that they associate with. In this complex, Jak1 and Jak2 transactivate one another and then phosphorylate IFNGR1, thereby forming a paired set of Stat1 docking sites on the ligated receptor.
Bioactivity	Binds human interferon gamma.
Purity	> 95%, as determined by SDS-PAGE.
Shipping	Ice Pack.

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 45-1 Ramsey Road, Shirley, NY 11967, USA

Temperature

Physical State Of

Product During Frozen.

Shipping

GENE INFORMATION

Gene Name IFNGR1 interferon gamma receptor 1 [Homo sapiens]

Synonyms

IFNGR1; interferon gamma receptor 1; CD119; IFNGR; FLJ45734; AVP, type 2; CD119 antigen; immune interferon receptor 1; interferon-gamma receptor alpha chain; IFN-gamma-R1; OTTHUMP00000017285; interferon gamma receptor 1

Gene ID

3459

mRNA Refseq

NM_000416

Protein Refseq

NP_000407

MIM

107470

UniProt ID

P15260

**Chromosome
Location**

6q23-q24

Pathway

Cytokine-cytokine receptor interaction; Jak-STAT signaling pathway; Natural killer cell mediated cytotoxicity

Function

cytokine binding; interferon-gamma receptor activity; receptor activity

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**Crystallographic
structure of IFN- γ
ligand.**

