Active Recombinant Human Interferon(alpha, beta and omega) Receptor 2, Fc-tagged

Cat. No. IFNAR2-6952H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	A DNA sequence encoding the extracellular domain of human IFNAR2 isoform a was fused with the Fc region of human IgG1 at the C-terminus.The recombinant human IFNAR2 is a disulfide-linked homodimeric protein. The reduced monomer consists of 458 amino acids and predicts a molecular mass of 51.8 kDa.
Species	Human
Source	Human Cells
ProteinLength	458 amino acids
Description	IFNAR2 is a single-pass type Imembrane protein which belongs to the type I I cytokine receptor family. IFNAR2 is a receptor for interferons alpha and beta. IFNAR2 was detected in most lymphocytes, monocytes, and granulocytes, although IFNAR2 expression was higher in the monocytes and granulocytes than in the lymphocytes. The intra- and interdaily variations of IFNAR2 in lymphocytes, monocytes, and granulocytes were small. Among the lymphocyte subsets, IFNAR2 showed high expression in natural killer (NK) cells and low expression in T lymphocytes. Isoform 1 and isoform 3 of IFNAR2 are directly involved in signal transduction due to their interaction with the TYR kinase, JAK1. Isoform 1 also interacts with the transcriptional factors, STAT1 and STAT2. Both forms are potent inhibitors of type IIFN activity. Defects in IFNAR2 are associated with susceptibility to hepatitis B virus infection (HBV infection). Approximately one third of all cases of cirrhosis and half of all cases

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	of hepatocellular carcinoma can be attributed to chronic HBV infection. HBV infection may result in subclinical or asymptomatic infection, acute self-limited hepatitis, or fulminant hepatitis requiring liver transplantation.
Predicted N Terminal	Ile 27
Form	Lyophilized from sterile PBS , pH 7.4. Normally 5 % - 8 % trehalose and mannitol are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA.
Bio-activity	1. Measured by its ability to inhibit rh IFNβ mediated protection of WISH human amnion cells infected with vesicular stomatitis virus (VSV) to viral lysis.2. The EC50 for this effect is typically 0.08 - 0.4 μg/Ml.
Molecular Mass	The recombinant human IFNAR2 is a disulfide-linked homodimeric protein. The reduced monomer consists of 458 amino acids and predicts a molecular mass of 51.8 kDa. As a result of glycosylation, the apparent molecular mass of rh IFNAR2 monomer is approximately 65-75 kDa in SDS-PAGE under reducing conditions..
Endotoxin	1.0 eu/μg of the protein as determined by the lal
Purity	>94 % as determined by SDS-PAGE
Stability	Samples are stable for up to twelve months from date of receipt at -70 °C.
Storage	Store it under sterile conditions at -70°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	IFNAR2 interferon (alpha, beta and omega) receptor 2 [Homo sapiens]

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Official Symbol	IFNAR2
Synonyms	IFNAR2; interferon (alpha, beta and omega) receptor 2; IFNABR; interferon alpha/beta receptor 2; IFN-R-2; IFN-alpha binding protein; IFN-alpha/beta receptor 2; type I interferon receptor 2; interferon alpha binding protein; human interferon alpha/beta receptor; interferon-alpha/beta receptor beta chain; IFN-R; IFNARB; IFN-alpha-REC;
Gene ID	3455
mRNA Refseq	NM_000874
Protein Refseq	NP_000865
MIM	602376
UniProt ID	P48551
Chromosome Location	21q22.1
Pathway	Cytokine Signaling in Immune system, organism-specific biosystem; Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Downstream signaling in naive CD8+ T cells, organism-specific biosystem; Hepatitis C, organism-specific biosystem; Hepatitis C, conserved biosystem; Herpes simplex infection, organism-specific biosystem;
Function	protein binding; protein kinase binding; receptor activity; type I interferon binding; type I interferon receptor activity;

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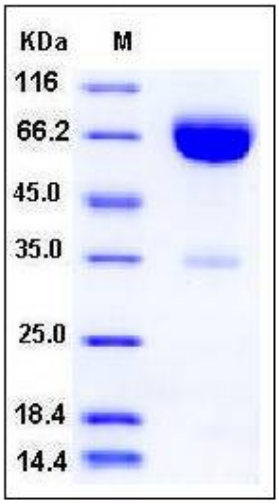
IFNABR protein	

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