

# Recombinant Human IFNAR2 Protein (His Tag)

Catalog Number:PKSH032605



**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

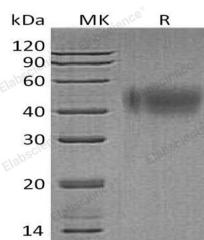
## Description

<b>Synonyms</b>	Interferon Alpha/Beta Receptor 2;IFN-R-2;IFN-Alpha Binding Protein;IFN-Alpha/Beta Receptor 2;Interferon Alpha Binding Protein;Type I Interferon Receptor 2;IFNAR2;IFNABR;IFNARB
<b>Species</b>	Human
<b>Expression Host</b>	HEK293 Cells
<b>Sequence</b>	Ile27-Lys243
<b>Accession</b>	P48551
<b>Calculated Molecular Weight</b>	25.8 kDa
<b>Observed molecular weight</b>	38-55 kDa
<b>Tag</b>	C-His

## Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per $\mu$ g of the protein as determined by the LAL method.
<b>Storage</b>	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from a 0.2 $\mu$ m filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

## Data



> 95 % as determined by reducing SDS-PAGE.

## Background

Interferon  $\alpha/\beta$  Receptor 2 (IFN- $\alpha/\beta$  R2) is a single-pass type I membrane protein which belongs to the type II cytokine receptor family. It complexes with IFN- $\alpha/\beta$  R1 to form the signaling receptor complex for the family of  $\alpha$  and  $\beta$  IFN subtypes. By alternative splicing; IFN- $\alpha/\beta$  R2 can exist as a secreted soluble protein or as a type I membrane protein. IFN- $\alpha/\beta$  R2 is the principal ligand binding subunit of the receptor. Ligand binding is stabilized by the subsequent association with IFN- $\alpha/\beta$  R1; resulting in the formation of a signaling ternary receptor complex. IFNAR2 was detected in most lymphocytes; monocytes; and granulocytes; although IFNAR2 expression was higher in the monocytes and granulocytes

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than in the lymphocytes. 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 I IFN activity.

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