

# Human IFN-alpha / beta R2 Protein, Fc Tag

Catalog # IF2-H5255



BIOSYSTEMS  
**Acro**

Surprise Inside!

## Synonym

IFNAR2, IFNARB, IFNABR, IFN-R-2, IFN-alpha, beta receptor 2

## Source

Human IFNAR2, Fc Tag (IF2-H5255) is expressed from human 293 cells (HEK293). It contains AA Ile 27 - Lys 243 (Accession # [P48551-2](#)).  
Predicted N-terminus: Ile 27

## Molecular Characterization

IFNAR2(Ile 27 - Lys 243) P48551-2	Fc(Pro 100 - Lys 330) P01857
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### [Other Tags and Version](#) [Biotin & Other Labeled Version](#)

This protein carries a human IgG1 Fc tag at the C-terminus.

The protein has a calculated MW of 51.4 kDa. The protein migrates as 64-80 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

## Endotoxin

Less than 1.0 EU per µg by the LAL method / rFC method.

## Purity

>95% as determined by SDS-PAGE.

## Formulation

Lyophilized from 0.22 µm filtered solution in Tris with Glycine, Arginine and NaCl, pH7.5 with trehalose as protectant.

Contact us for customized product form or formulation.

## Reconstitution

Please see Certificate of Analysis for specific instructions.

**For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.**

## Storage

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

**Please avoid repeated freeze-thaw cycles.**

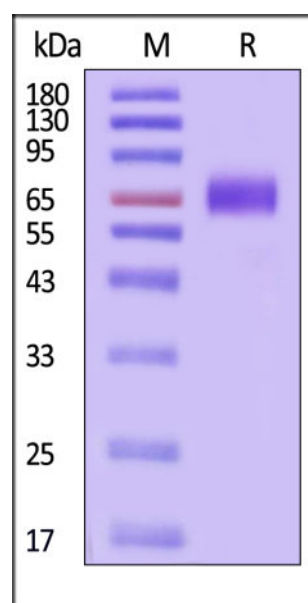
This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

## ACRO Quality Management System

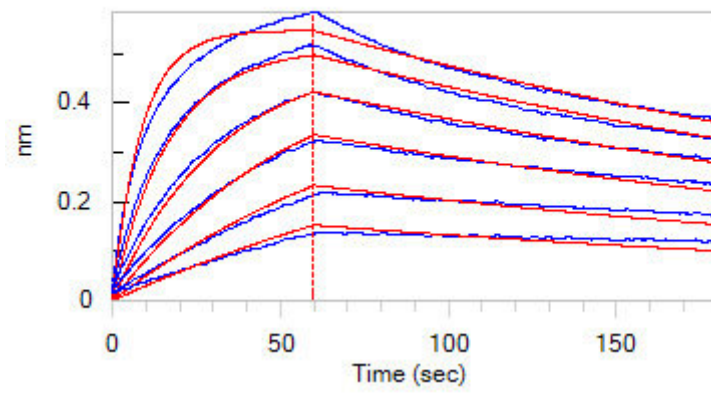
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

## SDS-PAGE



Human IFNAR2, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

## Bioactivity-BLI



Loaded Human IFN-alpha 1, His Tag (Cat. No. IFA-H52H9) on HIS1K Biosensor, can bind Human IFNAR2, Fc Tag (Cat. No. IF2-H5255) with an affinity constant of 19.5 nM as determined in BLI assay (ForteBio Octet Red96e) (Routinely tested).

## Background

Interferon alpha/beta receptor 2 (IFNAR2) is also known as IFN-alpha binding protein, IFN-alpha/beta receptor 2, Type I interferon receptor 2, IFNABR and IFNARB, which is a single-pass type I membrane protein and belongs to the type II cytokine receptor family. IFNAR2 can associate with IFNAR1 to form the type I interferon receptor. IFNAR2 is a receptor for interferons alpha and beta. IFNAR2 involves in IFN-mediated STAT1, STAT2 and STAT3 activation. Isoform 1 and isoform 2 of IFNAR2 are directly involved in signal transduction due to their association with the TYR kinase, JAK1. Isoform 3 of IFNAR2 is a potent inhibitor of type I IFN receptor activity. Genetic variations in IFNAR2 influence susceptibility to hepatitis B virus (HBV) infection.

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