



## Synonym

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

## Source

Human IFNAR2, His Tag(IF2-H5224) 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 Poly-his

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 25.8 kDa. The protein migrates as 34-45 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

## Endotoxin

Less than 1.0 EU per µg by the LAL method.

## Purity

>95% as determined by SDS-PAGE.

## Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 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

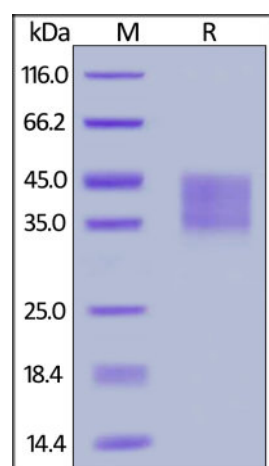
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*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.

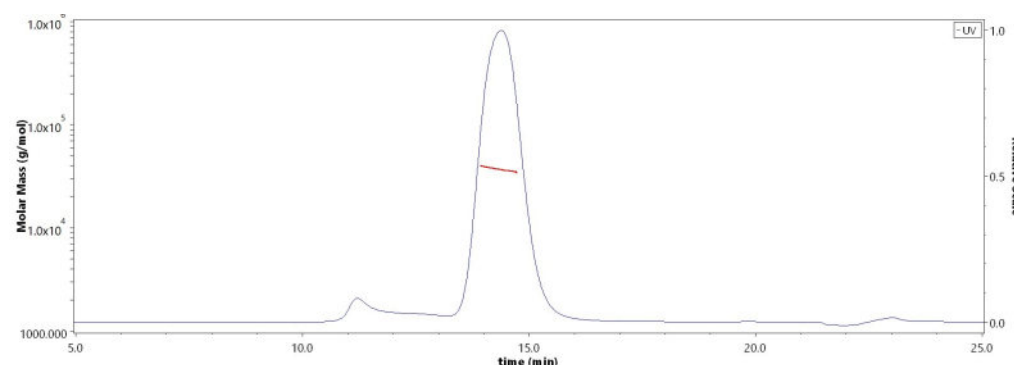
## SDS-PAGE



Human IFNAR2, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

## Bioactivity-SPR

## SEC-MALS



The purity of Human IFNAR2, His Tag (Cat. No. IF2-H5224) is more than 85% and the molecular weight of this protein is around 32-42 kDa verified by SEC-MALS.

[Report](#)

Discounts, Gifts,  
and more!

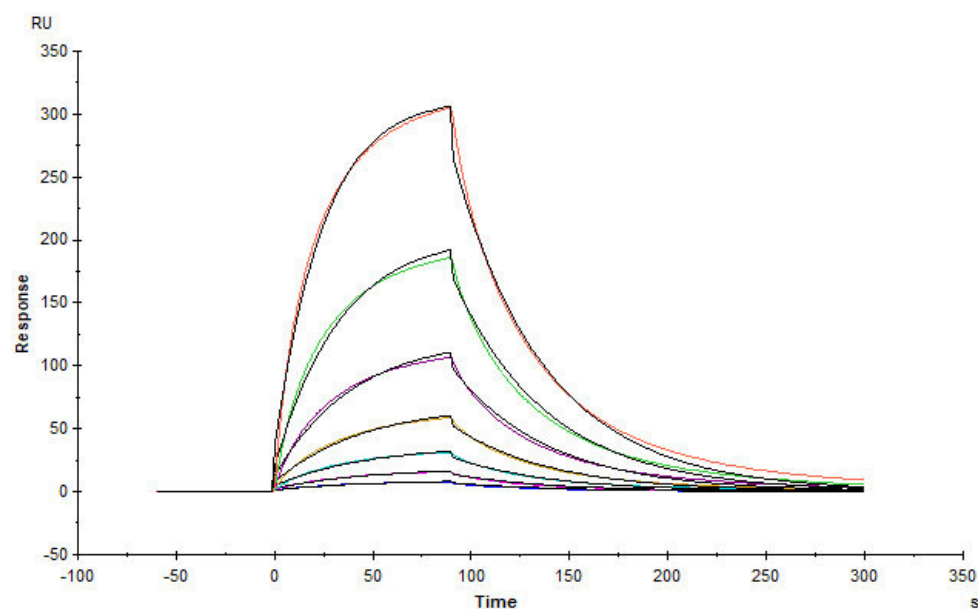


## Human IFN-alpha/beta R2 Protein, His Tag (MALS verified)

Catalog # IF2-H5224

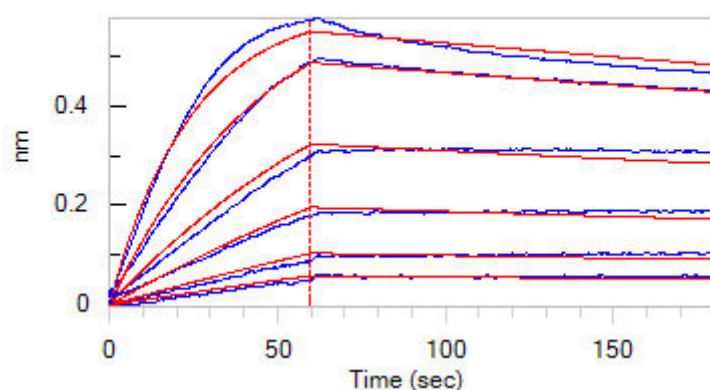


BIOSYSTEMS  
**Acro**  
Surprise Inside!



Human IFN-alpha 2b Protein, Fc Tag (Cat. No. IFB-H5253) immobilized on CM5 Chip can bind Human IFNAR2, His Tag (Cat. No. IF2-H5224) with an affinity constant of  $0.257 \mu\text{M}$  as determined in SPR assay (Biacore T200) (Routinely tested).

### Bioactivity-BLI



Loaded Human IFNAR2, His Tag (Cat. No. IF2-H5224) on HIS1K Biosensor, can bind Human IFN-alpha 1, Fc Tag (Cat. No. IFA-H5258) with an affinity constant of  $2.67 \text{ nM}$  as determined in BLI assay (ForteBio Octet Red96e) (QC 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.

### Clinical and Translational Updates

Please contact us via [TechSupport@acrobiosystems.com](mailto:TechSupport@acrobiosystems.com) if you have any question on this product.

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