



## Synonym

IFNAR1,IFNAR,CRF2-1,IFN-R-1,IFNAR-1

## Source

Mouse IFN-alpha / beta R1, His Tag(IF1-M5225) is expressed from human 293 cells (HEK293). It contains AA Glu 27 - Thr 429 (Accession # [P33896-1](#)).

Predicted N-terminus: Glu 27

## Molecular Characterization

IFNAR1(Glu 27 - Thr 429)  
P33896-1 Poly-his

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

The protein has a calculated MW of 47.6 kDa. The protein migrates as 57-66 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.

## Purity

>90% 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

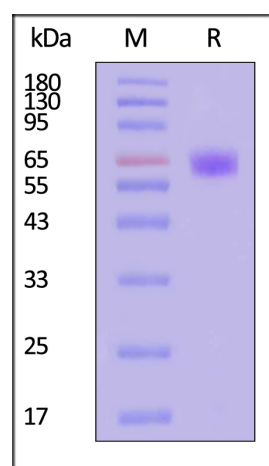
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*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

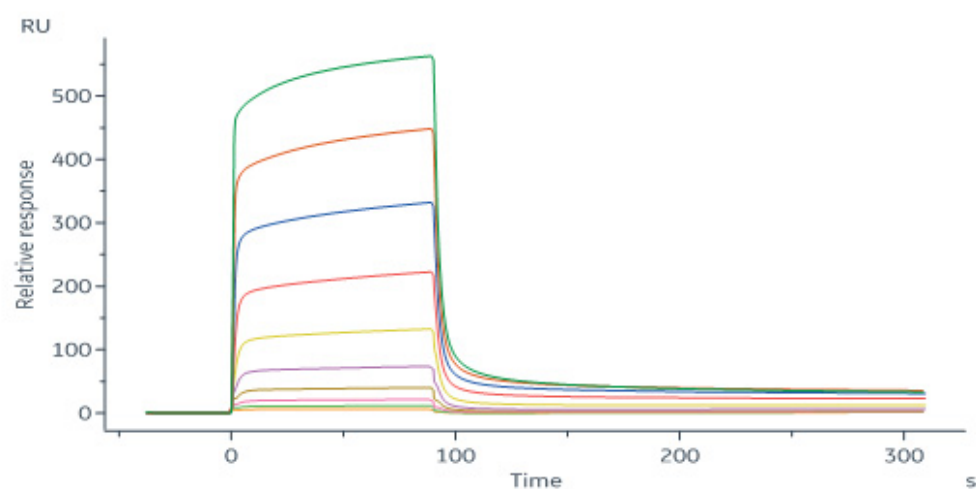


Mouse IFN-alpha / beta R1, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

## Bioactivity-SPR

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Mouse IFN-alpha / beta R1, His Tag (Cat. No. IF1-M5225) immobilized on CM5 Chip can bind Mouse IFN-alpha 1, His Tag (Cat. No. IFA-M52H3) with an affinity constant of 2.96  $\mu$ M as determined in a SPR assay (Biacore 8K) (Routinely tested).

## Background

Interferon alpha/beta receptor 1 (IFNAR1) is also known as Cytokine receptor class-II member 1, Cytokine receptor family 2 member 1 (CRF2-1), Type I interferon receptor 1, IFNAR, which belongs to the type II cytokine receptor family. IFNAR1 /IFNAR contains four fibronectin type-III domains. IFNAR1 associates with IFNAR2 to form the type I interferon receptor. IFNAR1 is receptor for interferons alpha and beta. IFNAR1 can transduce IFNB signals without the help of IFNAR2, and not activating the Jak-STAT pathway.

## Clinical and Translational Updates

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