

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 / rFC 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

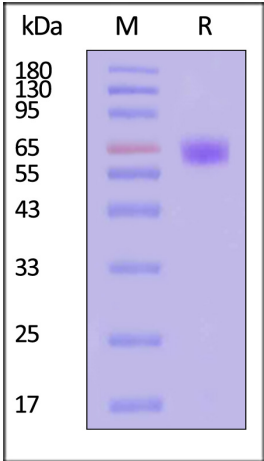
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*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

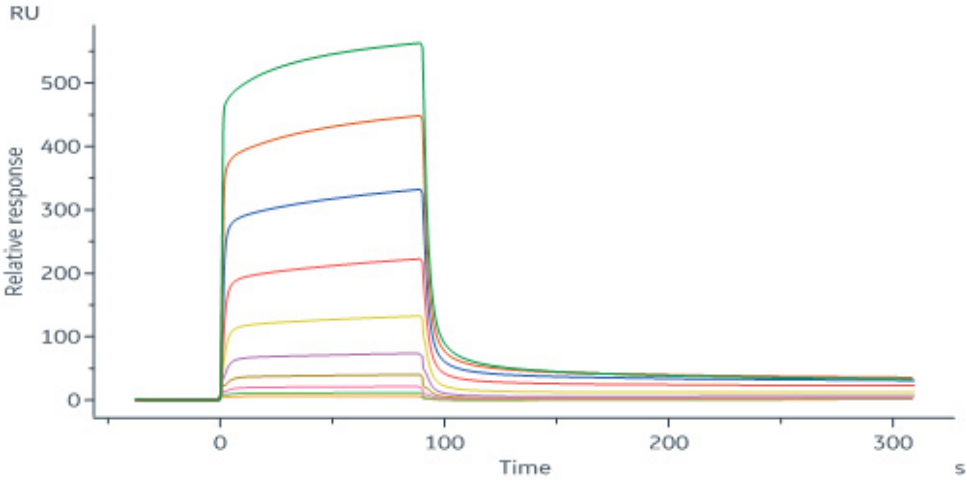


Mouse IFN-alpha / beta R1, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

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.

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