

Human IFN-alpha / beta R1 Protein, Fc Tag

Catalog # IF1-H5253



BIOSYSTEMS
Acro

Synonym

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

Source

Human IFNAR1, Fc Tag (IF1-H5253) is expressed from human 293 cells (HEK293). It contains AA Lys 28 - Lys 436 (Accession # [NP_000620](#)).

Predicted N-terminus: Lys 28

Molecular Characterization

IFNAR1(Lys 28 - Lys 436) NP_000620	Fc(Pro 100 - Lys 330) P01857
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This protein carries a human IgG1 Fc tag at the C-terminus.

The protein has a calculated MW of 73.8 kDa. The protein migrates as 100-130 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

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

Purity

>85% 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.

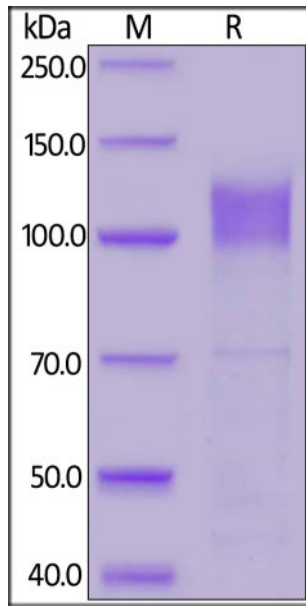
This product is stable after storage at:

- -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

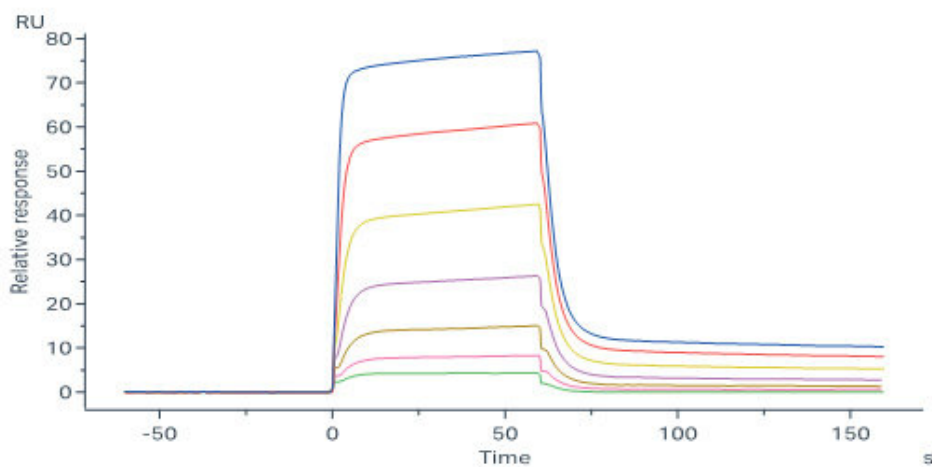
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



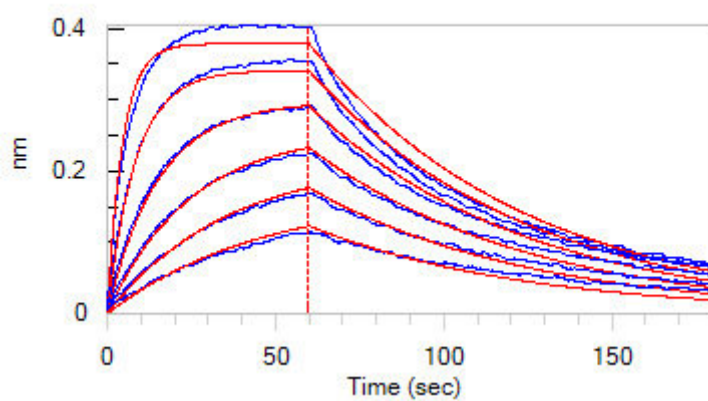
Human IFNAR1, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 85%.

Bioactivity-SPR



Human IFNAR1, Fc Tag (Cat. No. IF1-H5253) captured on Protein A Chip can bind Human IFN-alpha 1, His Tag (Cat. No. IFA-H52H9) with an affinity constant of $0.382 \mu\text{M}$ as determined in a SPR assay (Biacore 8K) (Routinely tested).

Bioactivity-BLI



Loaded Human IFN-alpha 1, His Tag (Cat. No. IFA-H52H9) on HIS1K Biosensor, can bind Human IFNAR1, Fc Tag (Cat. No. IF1-H5253) with an affinity constant of $0.191 \mu\text{M}$ as determined in BLI assay (ForteBio Octet Red96e) (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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