

**Synonym**

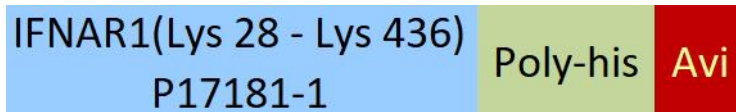
IFNAR1,IFNAR,CRF2-1,IFN-R-1,IFNAR-1

**Source**

Biotinylated Human IFN-alpha / beta R1 Protein, His,Avitag(IF1-H82E3) is expressed from human 293 cells (HEK293). It contains AA Lys 28 - Lys 436 (Accession # [P17181-1](#) ).

Predicted N-terminus: Lys 28

**Molecular Characterization**



This protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag (Avitag™)

The protein has a calculated MW of 50 kDa. The protein migrates as 66-90 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

**Labeling**

*Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.*

**Protein Ratio**

Passed as determined by the HABA assay / binding ELISA.

**Endotoxin**

Less than 1.0 EU per µg by the LAL method.

**Purity**

>90% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

**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**

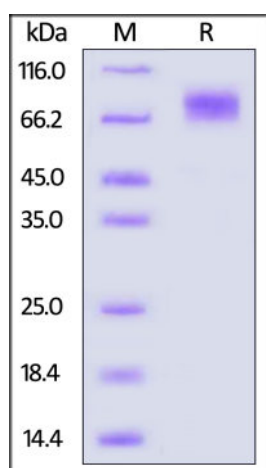
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*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.

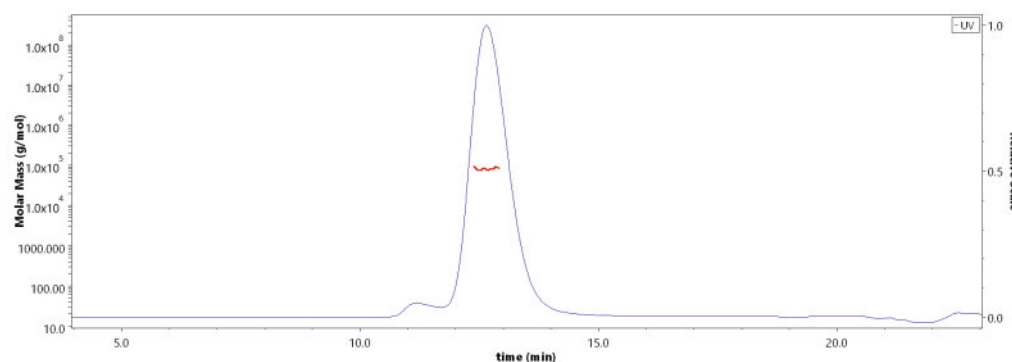
**SDS-PAGE**



Biotinylated Human IFN-alpha / beta R1 Protein, His,Avitag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%.

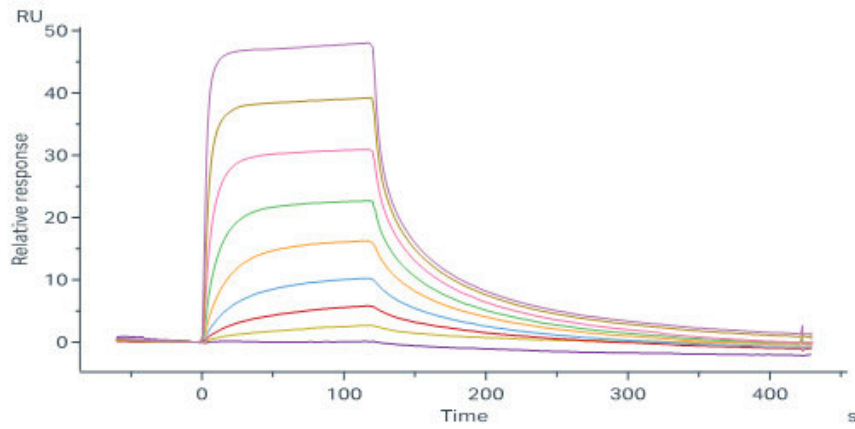
**Bioactivity-SPR**

**SEC-MALS**



The purity of Biotinylated Human IFN-alpha / beta R1 Protein, His,Avitag (Cat. No. IF1-H82E3) is more than 90% and the molecular weight of this protein is around 70-90 kDa verified by SEC-MALS.

[Report](#)



Biotinylated Human IFN-alpha / beta R1 Protein, His,Avitag (Cat. No. IF1-H82E3) captured on Biotin CAP-Series S Sensor Chip can bind Human IFN-alpha 1, Fc Tag (Cat. No. IFA-H5258) with an affinity constant of 0.177  $\mu$ M as determined in a SPR assay (Biacore 8K) (QC 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

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