



Synonym

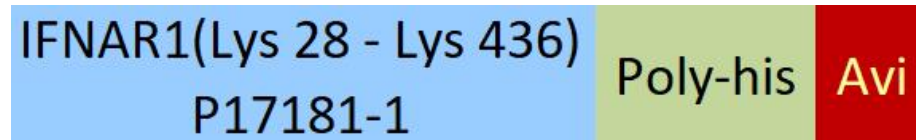
IFNAR1, IFNAR, CRF2-1, IFN-R-1, IFNAR-1

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 50.7 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.

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.

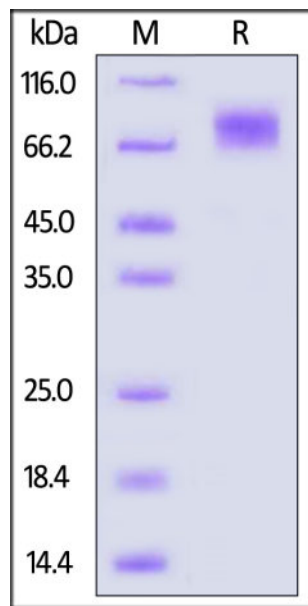
This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

ACRO Quality Management System

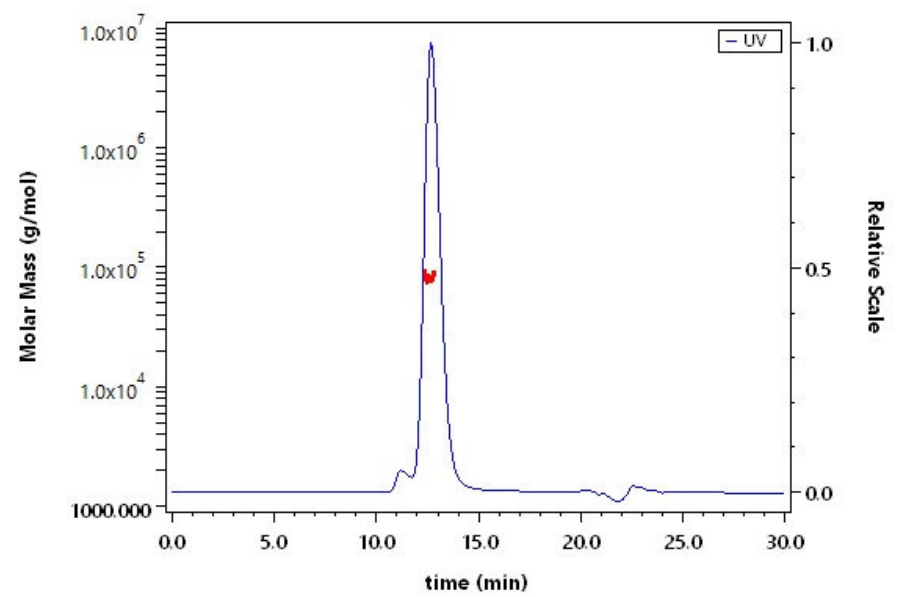
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



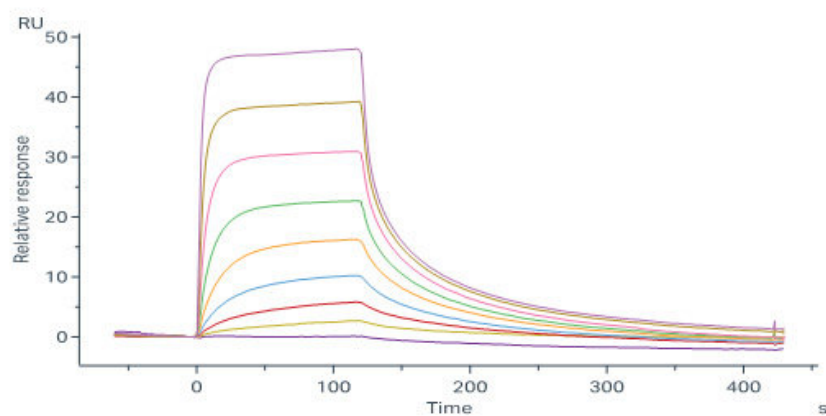
Biotinylated Human IFN-alpha / beta R1 Protein, His,Avitag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%.

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.

Bioactivity-SPR



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 $0.177 \mu\text{M}$ 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.

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