



## Synonym

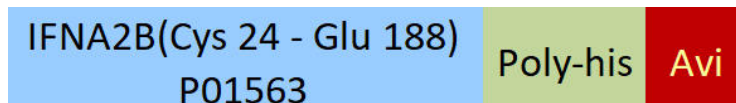
IFN-alpha 2b,IFNA2B,IFN-alpha 2 (alpha 2b),interferon alpha 2b

## Source

Biotinylated Human IFN-alpha 2b Protein, His,Avitag(IFB-H82E3) is expressed from human 293 cells (HEK293). It contains AA Cys 24 - Glu 188 (Accession # [P01563](#)).

Predicted N-terminus: Cys 24

## 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 23.0 kDa. The protein migrates as 23-28 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) 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

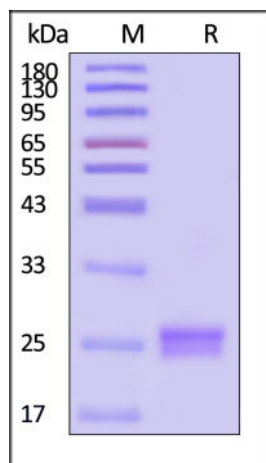
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*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.

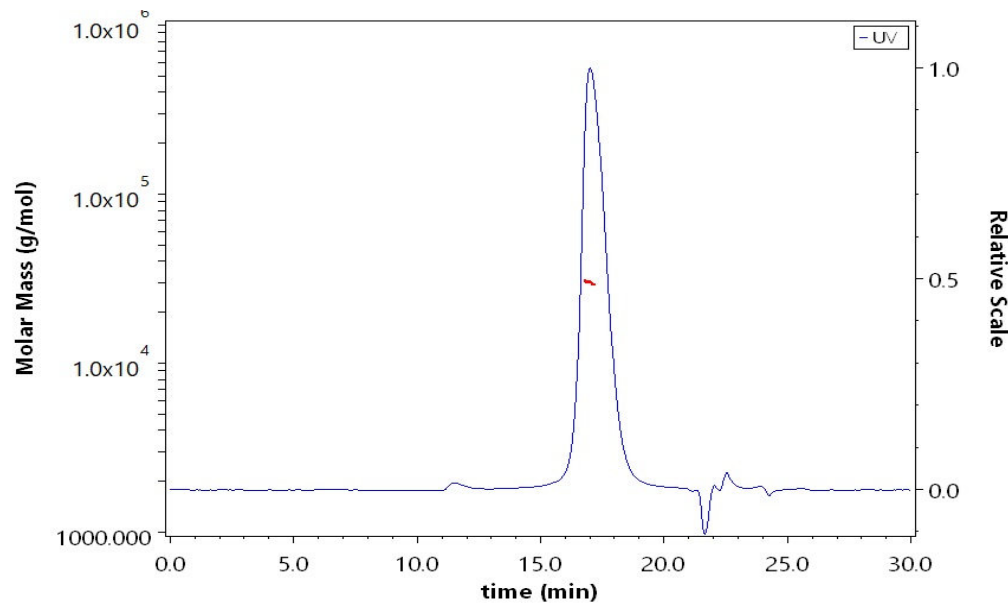
## SDS-PAGE



Biotinylated Human IFN-alpha 2b 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% (With [Star Ribbon Pre-stained Protein Marker](#)).

## Bioactivity-ELISA

## SEC-MALS

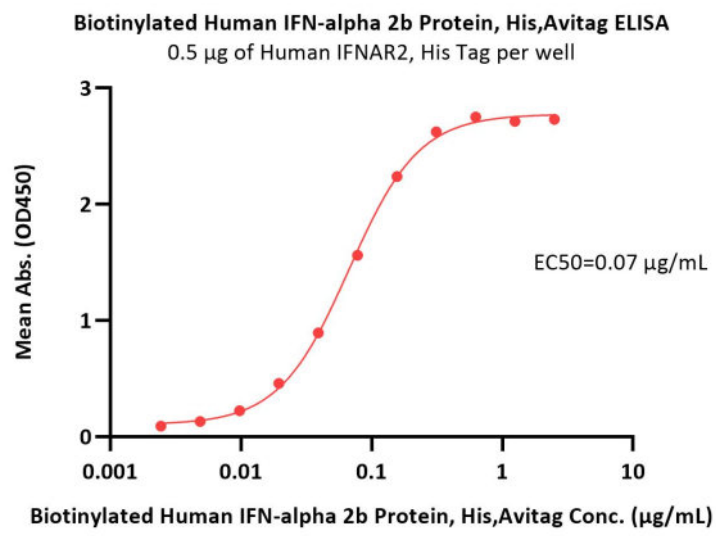


The purity of Biotinylated Human IFN-alpha 2b Protein, His,Avitag (Cat. No. IFB-H82E3) is more than 90% and the molecular weight of this protein is around 23-35 kDa verified by SEC-MALS.

[Report](#)

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Immobilized Human IFNAR2, His Tag (Cat. No. IF2-H5224) at 5 µg/mL (100 µL/well) can bind Biotinylated Human IFN-alpha 2b Protein, His,Avitag (Cat. No. IFB-H82E3) with a linear range of 0.002-0.156 µg/mL (QC tested).

## Background

IFN-alpha is a cytokine that has an immunomodulatory function. It plays an important role not only in antiviral activity but also in several physiologic functions, such as activation of dendritic cells and accelerated expression of major histocompatibility complex I and II molecules that may cause increased antigen presentation. Variants of human leukocyte interferon alpha 2 (IFN-alpha 2a, alpha 2b, and alpha 2c) differ from each other by changes in their coding regions at nucleotide positions 137 and 170. IFN-alpha 2b (IFN $\alpha$ -2b) is an important cytokine and used for antiviral and anticancer treatment.

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