

**Synonym**

IFNW1,IFN-omega

**Source**

Human IFN-omega Protein, His Tag(IFA-H52H3) is expressed from human 293 cells (HEK293). It contains AA Cys 24-Ser 195 (Accession # [P05000](#)).

Predicted N-terminus: Cys 24

**Molecular Characterization**

IFN-omega(Cys 24-Ser 195) P05000	Poly-his
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This protein carries a polyhistidine tag at the C-terminus

The protein has a calculated MW of 21.8 kDa. The protein migrates as 27-30 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.

**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.*

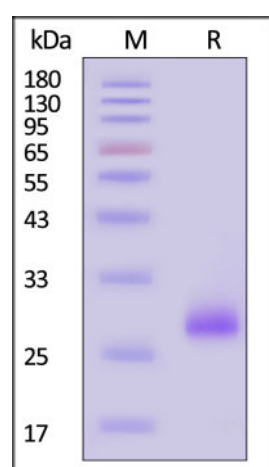
**Storage**

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

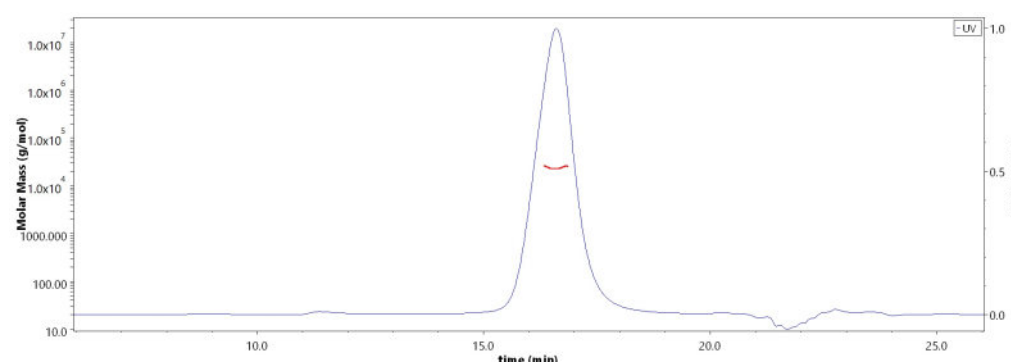
*Please avoid repeated freeze-thaw cycles.*

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.

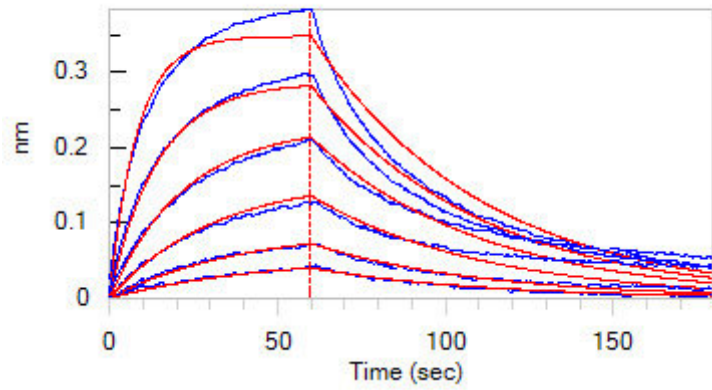
**SDS-PAGE**

Human IFN-omega Protein, 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-BLI****SEC-MALS**

The purity of Human IFN-omega Protein, His Tag (Cat. No. IFA-H52H3) is more than 90% and the molecular weight of this protein is around 18-30 kDa verified by SEC-MALS.

[Report](#)



Loaded Human IFN-omega Protein, His Tag (Cat. No. IFA-H52H3) on NTA Biosensor, can bind Human IFNAR1, Fc Tag (Cat. No. IF1-H5253) with an affinity constant of 245 nM as determined in BLI assay (ForteBio Octet Red96e) (QC tested).

### Background

The protein encoded by this gene is an interferon and possesses antiviral activity. The encoded protein binds to the interferon alpha/beta receptor but not to the interferon gamma receptor. This intronless gene has several pseudogenes spread throughout the genome.

### Clinical and Translational Updates

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