

Human IFN-omega Protein, His Tag (BLI & MALS verified)

Catalog # IFA-H52H3



BIOSYSTEMS
Acro

Surprise Inside!

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 21.9 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 / rFC 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.

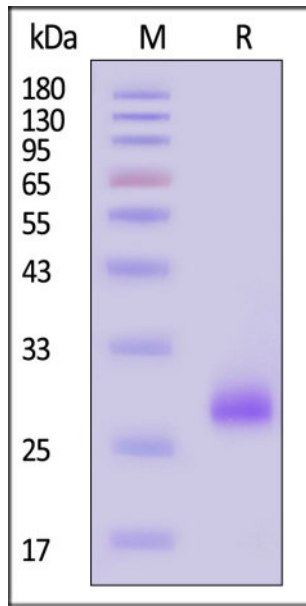
This product is stable after storage at:

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

ACRO Quality Management System

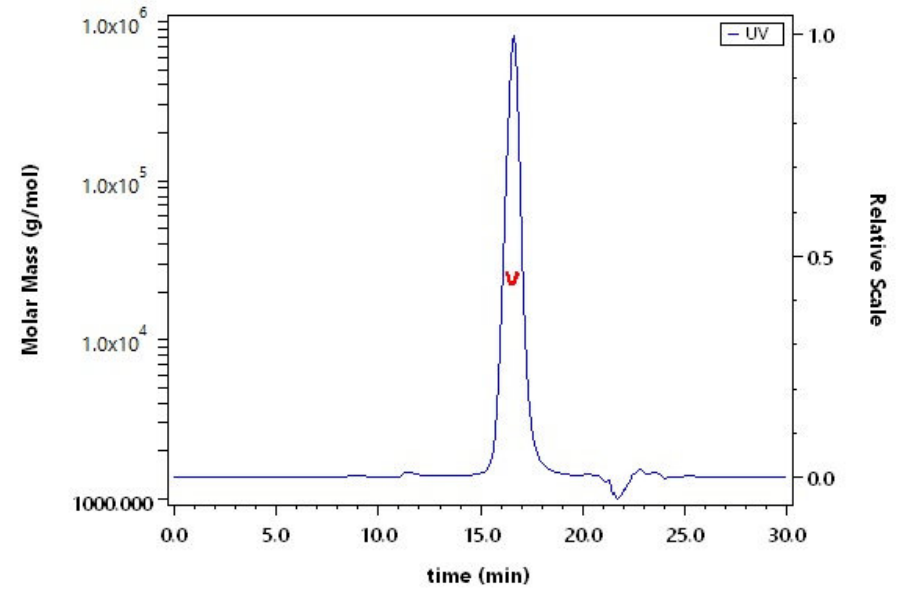
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



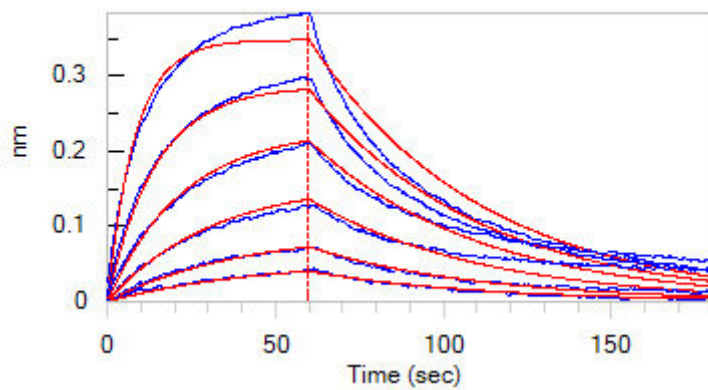
Human IFN-omega Protein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

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.

Bioactivity-BLI



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.

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