

Synonym

Interferon-gamma ,Interferon- $\gamma$

Source

Mouse IFN-gamma Protein, His Tag(IFG-M52H3) is expressed from human 293 cells (HEK293). It contains AA His 23 - Cys 155 (Accession # [P01580](#)).

Predicted N-terminus: His 23

Molecular Characterization

IFN-gamma(His 23 - Cys 155)  
P01580

Poly-his

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 17.4 kDa. The protein migrates as 22-23 kDa and 27-28 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per  $\mu$ g by the LAL method.

Purity

>90% as determined by SDS-PAGE.

>95% as determined by SEC-MALS.

Formulation

Lyophilized from 0.22  $\mu$ m 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

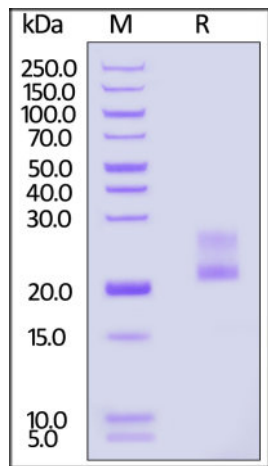
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

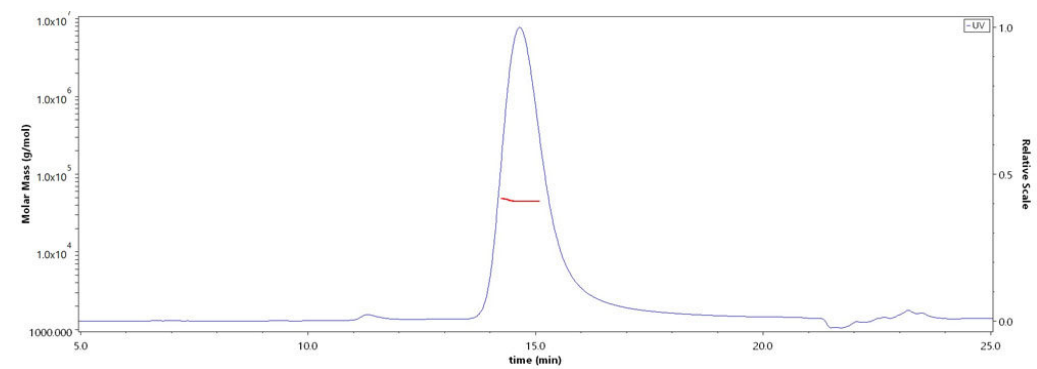
- 20°C to -70°C for 12 months in lyophilized state;
- 70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Mouse IFN-gamma 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%.

SEC-MALS



The purity of Mouse IFN-gamma Protein, His Tag (Cat. No. IFG-M52H3) is more than 95% and the molecular weight of this protein is around 40-50 kDa verified by SEC-MALS.

[Report](#)

Background

Interferon-gamma (IFN- $\gamma$ /IFNG) is a dimerized soluble cytokine that is the only member of the type II class of interferon. This interferon was originally called macrophage-activating factor, a term now used to describe a larger family of proteins to which IFN- $\gamma$  belongs. IFN-gamma has been used in a wide variety of clinical

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Mouse IFN-gamma / IFNG Protein, His Tag (MALS verified)

Catalog # IFG-M52H3



indications. Interferon-gamma (IFNgamma) is a central regulator of the immune response and signals via the Janus Activated Kinase (JAK)-Signal Transducer and Activator of Transcription (STAT) pathway. Interferon gamma has broader roles in activation of innate and adaptive immune responses to viruses and tumors, in part through upregulating transcription of genes involved in cell cycle regulation, apoptosis, and antigen processing/presentation. Despite this, rodent and human trophoblast cells show dampened responses to IFNG that reflect the resistance of these cells to IFNG-mediated activation of major histocompatibility complex (MHC) class II transplantation antigen expression.

Clinical and Translational Updates

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