

For Research Use Only

# Recombinant Mouse IFN- $\alpha$ 2/IFNA2 protein (rFc Tag) (HPLC verified)



Catalog Number: Eg3079

## Basic Information

**Species:**  
Mouse

**Purity:**  
>90 %, SDS-PAGE<br>>90 %, SEC-HPLC

**Tag:**  
rFc Tag

## Technical Specifications

**Purity:**  
>90 %, SDS-PAGE<br>>90 %, SEC-HPLC

**Endotoxin Level:**  
<0.1 EU/  $\mu$ g protein, LAL method

**Source:**  
HEK293-derived Mouse IFN- $\alpha$  2 protein Cys24-Glu190 (Accession# P01573) with a rabbit IgG Fc tag at the C-terminus.

**GeneID:**  
15965

**Accession:**  
P01573

**Predicted Molecular Mass:**  
45.4 kDa

**SDS-PAGE:**  
45-50 kDa, reducing (R) conditions

**Formulation:**  
Lyophilized from 0.22  $\mu$ m filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

## Biological Activity

Not tested

## Storage and Shipping

### Storage:

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

### Shipping:

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

## Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

## Background

Interferon- $\alpha$  (IFN- $\alpha$ ) is a type I interferon that plays a crucial role in the immune response. It is produced by various cell types in response to viral infections and other stimuli. IFN- $\alpha$  has multiple functions, including the activation of immune cells, enhancement of antigen presentation, and the induction of antiviral states in cells. In mice, the *Ifna2* gene encodes a specific isoform of IFN- $\alpha$ , which is involved in the regulation of the immune system and the defense against pathogens. The expression and function of *Ifna2* in mice can be studied using various experimental models, including transgenic and knockout mice. These models help researchers understand the role of IFN- $\alpha$  in immune responses and the development of diseases such as viral infections and autoimmune disorders.

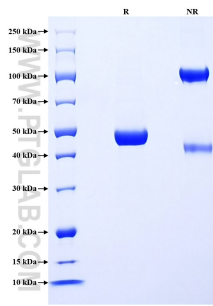
## References

1. Huang C, Jin Y, et al. (2024). *Acta Pharm Sin B*. 14(11):4914-4933.
2. Narovlyansky A, et al. (2024). *Viruses*. 16(11):1718.

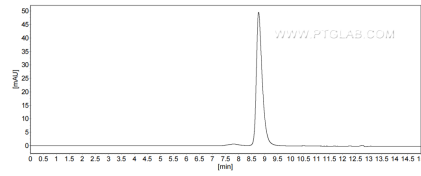
## Synonyms

Ifna2, IFN alpha2, IFN- $\alpha$  2, IFN- $\alpha$ -2, Interferon alpha 2

## Selected Validation Data



Purity of Recombinant Mouse IFN-alpha 2 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.



The purity of Mouse IFN-alpha 2 was greater than 90% as determined by SEC-HPLC.

For technical support and original validation data for this product please contact

T: 027-87531629

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

W: [ptgcn.com](http://ptgcn.com)

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