

# Recombinant Human IFN-alpha 2 Protein

Catalog No.: RP01432 **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Human	3440	P01563

### Tags

C-His

### Synonyms

IFNA2; IFN-alphaA; IFNA; IFNA2B; INFA2; interferon alpha-2; Interferon alpha 2 (IFN- $\alpha$ 2); IFN-alphaA; IFNA; IFNA2B; INFA2

## Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE.

Calculated MW	Observed MW
20.08 kDa	20-23 kDa

### Endotoxin

Please contact us for more information.


### Formulation

Lyophilized from a 0.22  $\mu$ m filtered solution of PBS, pH 7.4.

### Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Contact

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## Background

IFNA2 (Interferon Alpha 2) is a Protein Coding gene. This gene is a member of the alpha interferon gene cluster on chromosome 9. The encoded protein is a cytokine produced in response to viral infection. Type I Interferons (IFNs) are well-known cytokines that exert antiviral activity, antitumor activity, and immunomodulatory effects. Interferon tau (IFNT), a type I IFN similar to alpha IFNs (IFNA), is the pregnancy recognition signal produced by the ruminant conceptus. Among the IFN- $\alpha$  genes, a total of 28 different sequence variants have been described. The three principal subtypes of IFN $\alpha$ -2 are designated  $\alpha$ -2a,  $\alpha$ -2b, and  $\alpha$ -2c. IFN $\alpha$ -2b is being the predominant allele while IFN $\alpha$ -2a is less predominant and IFN $\alpha$ -2c only a minor allelic variant.

## Basic Information

### Description

Recombinant Human IFN-alpha 2 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Cys24-Glu188) of human Interferon alpha 2/IFNA2 (Accession #NP\_000596.2) fused with a 6 $\times$ His tag at the C-terminus.

### Bio-Activity

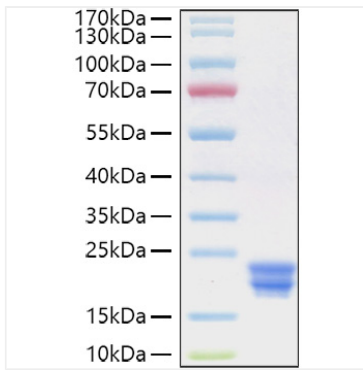
1. Measured by its binding ability in a functional ELISA. Immobilized Human IFNA2 at 2  $\mu$ g/mL (100  $\mu$ L/well) can bind Human IFNAR2 with a linear range of 0.2-617 ng/mL. 2. Recombinant human IFN- $\alpha$ 2 (10 ng/mL) was used to treat HCT116 cells. Western-blot result showed that both the level of phosphorylated STAT1 and STAT3 were increased, indicating the stimulation was successful. (Customer Feedback Data)

### Storage

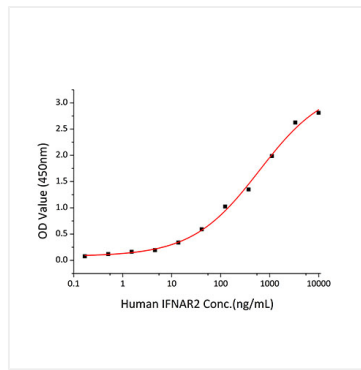
Store at -20 $^{\circ}$ C. Store the lyophilized protein at -20 $^{\circ}$ C to -80 $^{\circ}$ C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20 $^{\circ}$ C for 3 months, at 2-8 $^{\circ}$ C for up to 1 week. Avoid repeated freeze/thaw cycles.

## Validation Data

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Recombinant Human IFN-alpha 2 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 20-23kDa.



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