

# Recombinant Human IFN-alpha 21/IFNA21 Protein

**Catalog No.: RP01900** **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Human	3452	P01568

### Tags

C-His

### Synonyms

IFNA21; IFN-alpha 21; IFNalpha F; IFN-alpha F; IFN-alpha-21; IFN-alpha1; interferon alpha-21; Interferon alpha-F; interferon; alpha 21; LeIF F; leukocyte interferon protein; MGC126687; MGC126689

## Product Information

Source	Purification
HEK293 cells	

### Endotoxin

<0.01EU/μg of the protein by LAL method.

### Formulation

Lyophilized from a 0.22 μm 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

Interferons (IFN) are a family of cytokines with potent antiviral, anti-proliferative and immunomodulatory properties, classified based on their binding specificity to cell surface receptors. Human IFNA21 was originally cloned in the early '80s and now more than a dozen closely related IFN alpha subtypes have been identified in both the human and mouse genome, each sharing about 80% amino acid (aa) sequence homology. Structurally, type I IFNs belong to the class of five helical bundle cytokines, with the IFNA subtypes containing 2 conserved disulfide bonds. There is not a mouse homolog for IFNA21, but mature human IFNA21 is identical to chimpanzee IFNA21. The type I IFNs bind to the interferon alpha receptor (IFNAR), which consists of two subunits: IFNAR1 (alpha -subunit) and IFNAR2 (beta -subunit). Individual IFNA subtypes are known to display unique efficacies to viral protection, with IFNA21 displaying intermediate activity inducing interferon stimulating genes. Further, human IFNA21 has shown weak anti-viral activity against viruses such as metapneumovirus.

## Basic Information

### Description

Recombinant Human IFN-alpha 21/IFNA21 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Cys24-Glu189) of Human IFN-alpha 21/IFNA21 (Accession #NP\_002166.2) fused with a His tag at the C-terminus.

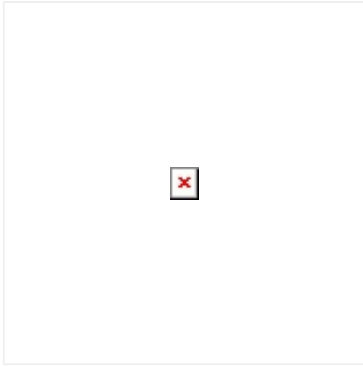
### Bio-Activity

### Storage

Store the lyophilized protein at -20°C to -80°C for long term. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.

## Validation Data

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Recombinant Human IFN-alpha 21/IFNA21  
Protein was determined by SDS-PAGE with  
Coomassie Blue, showing a band at 20-25  
KD.