

# Recombinant Rat IFNA1 Protein

Catalog No.: RP01836 **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Rat	298210	P05011

### Tags

C-His

### Synonyms

Interferon alpha-1

## Product Information

Source	Purification
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HEK293 cells

### Endotoxin

&lt;0.1EU/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

IFNA1, also known as IFN-alpha and IFNA, belongs to the alpha/beta interferon family. Interferons(IFNs) are proteins made and released by host cells in response to the presence of pathogens such as viruses, bacteria, parasites, or tumor cells. They belong to the large class of glycoproteins known as cytokines. IFNs stimulate the production of two enzymes: a protein kinase and an oligoadenylate synthetase. They allow for communication between cells to trigger the protective defenses of the immune system that eradicate pathogens or tumors. IFNs can activate immune cells, such as natural killer cells and macrophages; they increase recognition of infection or tumor cells by up-regulating antigen presentation to T lymphocytes, and they also increase the ability of uninfected host cells to resist new infection by the virus. Leukocyte interferon is produced predominantly by B lymphocytes. Immune interferon is produced by mitogen- or antigen-stimulated T lymphocytes. IFNA1 is produced by macrophages and has antiviral activities.

## Basic Information

### Description

Recombinant Rat IFNA1 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence Cys24-Ser192 of Rat IFNA1(Accession #NP\_001014786.1) fused with a His at the C-terminus

### Bio-Activity

### Storage

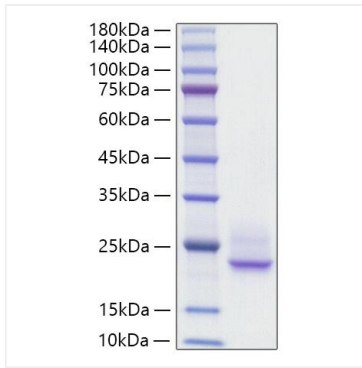
Store the lyophilized protein at -20°C to -80°C for long term.

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 Rat IFNA1 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 20-25 kDa.