

For Research Use Only

# Recombinant Human IFNA1 protein (His Tag)



Catalog Number: Eg1177

## Basic Information

**Species:**  
Human

**Purity:**  
>90 %, SDS-PAGE

**Tag:**  
His Tag

## Technical Specifications

**Purity:**

>90 %, SDS-PAGE

**Endotoxin Level:**

<0.1 EU/  $\mu$ g protein, LAL method

**Source:**

HEK293-derived Human IFNA1 protein Cys24-Glu189 (Accession# P01562) with a His tag at the C-terminus.

**GeneID:**

3447/3439

**Accession:**

P01562

**Predicted Molecular Mass:**

20.2 kDa

**SDS-PAGE:**

16-18 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

IFNA1 is a member of the Type I IFN (1) family best known for their antiviral activity. It is a key cytokine regulating the activity of B cells, T-helper cells (Th cells), cDCs and natural killer cells (NK cells). Interferon-alpha induces B cell maturation into plasma cells and immunoglobulin production. Interferon-alpha plays an important role in the pathogenesis of systemic lupus erythematosus (SLE). Interferon-alpha was the first cytokine to show clinical benefit in the treatment of certain types of cancer, including melanoma, chronic myelogenous leukemia, and renal cancer.

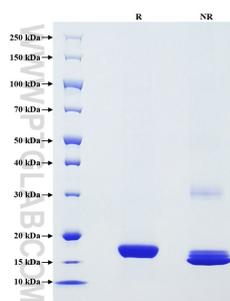
## References

1. Lande R. et al. (2010). Ann N Y Acad Sci. 1183: 89-103.
2. Poeck H. et al. (2004). Blood. 103: 3058-64.
3. Lindau D. et al. (2013). Ann Rheum Dis. Sep 7
4. Belardelli F. et al. (2002). Cytokine Growth Factor Rev. 13: 119-34.
5. Brassard DL. et al. (2002). J Leukoc Biol. 71: 565-81.

## Synonyms

IFNA13, IFN alpha 1/13, IFNA1, Interferon alpha 1/13

## Selected Validation Data



Purity of Recombinant Human IFNA1 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.

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

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