

For Research Use Only

Recombinant Human IFNA1 protein (rFc Tag)(HPLC verified)



Catalog Number: Eg2592

Basic Information

Species:
Human

Purity:
>90 %, SDS-PAGE
>90 %, SEC-HPLC

Tag:
rFc Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE
>90 %, SEC-HPLC

Endotoxin Level:
<0.1 EU/ µg protein, LAL method

Source:
HEK293-derived Human IFNA1 protein Cys24-Glu189 (Accession# P01562) with a rabbit IgG Fc tag at the C-terminus.

GeneID:
3439

Accession:
P01562

Predicted Molecular Mass:
45.4 kDa

SDS-PAGE:
42-48 kDa, reducing (R) conditions

Formulation:
Lyophilized from 0.22 µm filtered solution in 0.5M arg, 30mM Tris, pH8.0. 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 (IF-alpha) 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). IFNA1 induces B cell maturation into plasma cells and immunoglobulin production. IFNA1 plays an important role in the pathogenesis of systemic lupus erythematosus (SLE). IFNA1 was the first cytokine to show clinical benefit in the treatment of certain types of cancer, including melanoma, chronic myelogenous leukemia, and renal cancer.

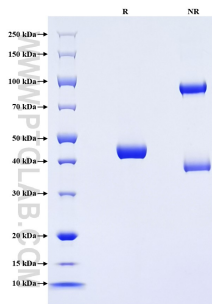
References

1. Jeon K, Kim Y, et al. (2023) Front Immunol. 14:1101808.
2. Jiang S, Sakamoto R, et al. (2019) Front Biosci (Landmark Ed). 24(4):790-797.
3. Wang S, Chen SN, et al. (2021) Fish Shellfish Immunol. 117:70-81.

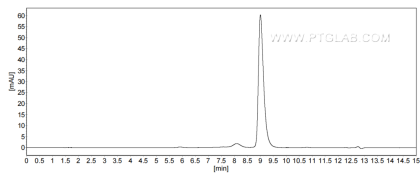
Synonyms

IFN ALPHA, IFN alpha 1/13, IFN alpha1, IFNA 1, IFNA13

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.



The purity of Human IFNA1 was greater than 90% as determined by SEC-HPLC.