

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- α 2); IFN-alphaA; IFNA; IFNA2B; INFA2

Product Information

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

Endotoxin

Please contact us for more information.

Formulation

Lyophilized from a 0.22 μ 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 freeze-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- α genes, a total of 28 different sequence variants have been described. The three principal subtypes of IFN α -2 are designated α -2a, α -2b, and α -2c. IFN α -2b is being the predominant allele while IFN α -2a is less predominant and IFN α -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 μ g/mL (100 μ L/well) can bind Human IFNAR2 with a linear range of 0.2-617 ng/mL. 2. Recombinant human IFN- α 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)

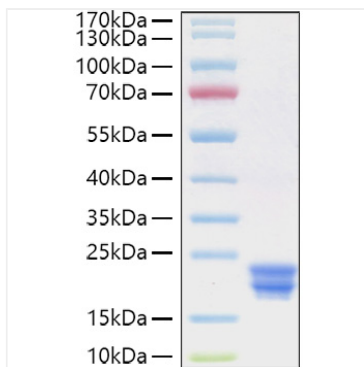
Storage

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

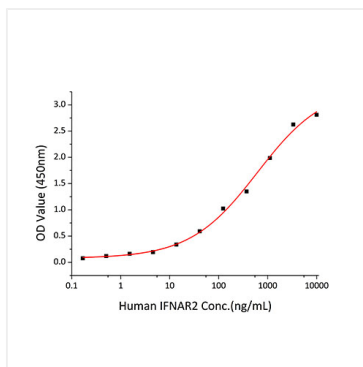
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

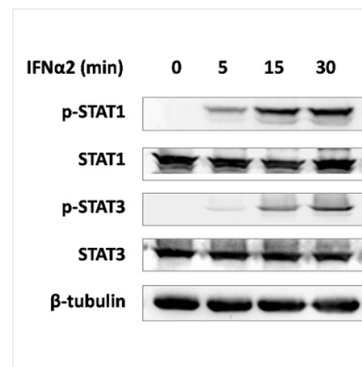
Validation Data



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



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