Recombinant Human IFN-alpha 2 Protein

Catalog No.: RP01432

Sequence Information

Species
Human

Gene ID
3440

Swiss Prot
P01563

Tags
C-His

Synonyms
IFNA2, IFN-alphaA, IFNA, IFNA2B, INFA2, interferon alpha-2, Interferon alpha 2 (IFN-α2) ,IFN-alphaA,IFNA,IFNA2B,INFA2

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
20.08 kDa

Observed MW
20-23 kDa

Endotoxin
Please contact us for more information.

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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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 IFNα-2 are designated α-2a, α-2b, and α-2c. IFNα-2b is being the predominant allele while IFNα-2a is less predominant and IFNα-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×His tag at the C-terminus.

Activity
1.Measured by its binding ability in a functional ELISA.Immobilized Human IFNA2 at 2 μg/mL (100 μL/well) can bind Human IFNAR2 with a linear range of 0.2-617ng/mL.
2.Recombinant human IFN-α2 (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)

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

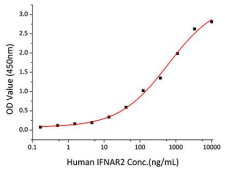
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

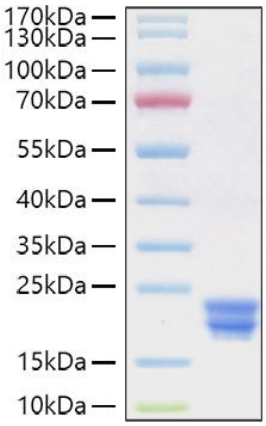
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Validation Data



Immobilized recombinant Human IFNA2 at 2 μg/mL (100 μL/well) can bind Human IFNAR2 with a linear range of 0.2-617ng/mL.



Recombinant Human IFN-alpha 2 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.