

Recombinant Human IFN- α 1/13(Q114A) Protein

Catalog No.: RP00011

Sequence Information

Species **Gene ID**
Human 3439

Swiss Prot **Tags**
P01562 C-His

Synonyms

IFNA1, IFL, IFN, IFN-ALPHA, IFN-alphaD, IFNA13, IFNA

Product Information

Source **Purification**
E. coli $\geq 95\%$ as determined by SDS-PAGE.

Calculated MW **Observed MW**
21.01 kDa 18 kDa

Endotoxin

< 0.1 EU/ μ g of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μ m filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

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.

Background

IFNA1, also known as IFN- α 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. 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 both anti-viral and immunomodulatory activities on target cells.

Basic Information

Description

Recombinant Human IFN- α 1/13(Q114A) Protein is produced by *E. coli* expression system. The target protein is expressed with sequence (Cys24–Glu189 (Ala114)) of human IFNA1 (Accession #NP_076918.1) fused with an initial Met at the N-terminus and a 6 $\times$ His tag at the C-terminus.

Activity

Measured by its ability to stimulate GBP2 expression in 293T human embryonic kidney cells. 0.1–1 ng/mL of Recombinant Human IFNA1 can effectively stimulate GBP2 expression.

2. Measured by its ability to stimulate human colon adenocarcinoma cells (Caco-2 cells). 10 ng/ μ L of Recombinant Human IFN- α 1/13(Q114A) can upregulate the expression of MDA5.

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°C

Operational Notes

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

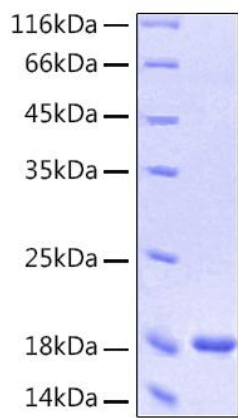
Contact

 | 400-999-6126

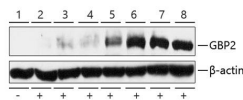
 | cn.market@abclonal.com.cn

 | www.abclonal.com.cn

Validation Data



Recombinant Human IFN-alpha 1/13(Q114A) Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



1. Blank Control (-)	2. IFNA1 10 ⁻² ng/ml (+)
3. IFNA1 10 ⁻² ng/ml (+)	4. IFNA1 10 ⁻² ng/ml (+)
5. IFNA1 10 ⁻² ng/ml (+)	6. IFNA1 10 ⁻² ng/ml (+)
7. IFNA1 10 ⁻² ng/ml (+)	8. IFNA1 10 ⁻² ng/ml (+)

Active Recombinant Human IFNA1 stimulates GBP2 expression in 293T human embryonic kidney cells. 0.1-1ng/mL of Recombinant Human IFNA1 can effectively Stimulating GBP2 expression.