

**Catalog No.: RP00011** **Recombinant**

Species	Gene ID	Swiss Prot
Human	3439	P01562

C-His

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

<b>Source</b> <i>E. coli</i>	<b>Purification</b> ≥ 95 % as determined by SDS- PAGE
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Calculated MW	Observed MW
21.01 kDa	18 kDa

< 0.1 EU/μg of the protein by LAL method.

Lyophilized from a 0.22  $\mu\text{m}$  filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

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.

 | 400-999-6126

 | [cn.market@abclonal.com.cn](mailto:cn.market@abclonal.com.cn)

 | [www.abclonal.com.cn](http://www.abclonal.com.cn)

IFNA1, also known as IFN-alpha 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.

Recombinant Human IFN-alpha 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 6xHis tag at the C-terminus.

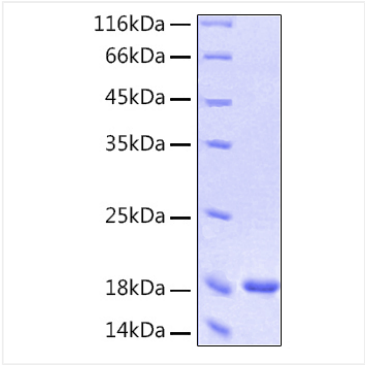
Measured by its ability to stimulate GBP2 expression in 293T human embryonic kidney cells. 0.1-1 ng/mL of Recombinant Human IFNA1 can effectively Stimulating GBP2 expression.[2].Measured by its ability to stimulate human colon adenocarcinoma cells (Caco-2 cells). 10 ng/ $\mu$ L of Recombinant Human IFN- $\alpha$  1/13(Q114A) can upregulate the expression of MDA5.

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

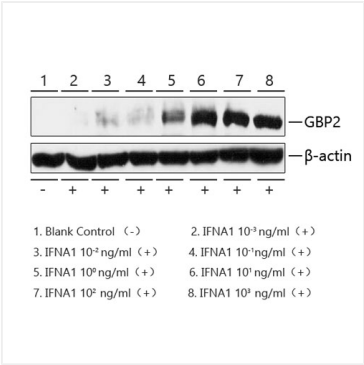
Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.  
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.  
Avoid repeated freeze/thaw cycles.

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

Validation Data



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



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