

Recombinant Human IFN-alpha B2/IFNA8 Protein

Catalog No.: RP02885 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	3445	P32881

Tags

C-His

Synonyms

IFNA8; IFN-alpha 8; IFNalpha B2; IFN-alpha B2; IFN-alpha-8; IFN-alphaB; interferon alpha type 201; interferon alpha-8; Interferon alpha-B; interferon alpha-B'; Interferon alpha-B2; interferon; alpha 8; IeIF B

Product Information

Source	Purification
HEK293 cells	

Calculated MW	Observed MW
20.58 kDa	25-30 kDa

Endotoxin

<0.01EU/μg of the protein by LAL method.

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

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Background

Interferon alpha-B, also known as IFNA8, belongs to the alpha/beta interferon family. Interferons are proteins made and released by host cells in response to the presence of pathogens such as viruses, bacteria, parasites, or tumor cells. Interferon stimulates the production of two enzymes: a protein kinase and an oligoadenylate synthetase. They also allow for communication between cells to trigger the protective defenses of the immune system that eradicate pathogens or tumors. Interferons also activate immune cells, such as natural killer cells and macrophages. They increase recognition of infection or tumor cells by up-regulating antigen presentation to T lymphocytes. They also increase the ability of uninfected host cells to resist new infections by virus. Certain symptoms, such as aching muscles and fever, are related to the production of IFNs during infection. Produced by macrophages, IFN-alpha has antiviral activities.

Basic Information

Description

Recombinant Human IFN-alpha B2/IFNA8 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ser24-Glu189) of Human IFN-alpha B2/IFNA8 (Accession #NP_002161.2) fused with a His tag at the C-terminus.

Bio-Activity

Measured in a cell cytotoxicity assay using TF-1 cells. The ED₅₀ for this effect is 0.10-0.42 ng/mL, corresponding to a specific activity of 2.38×10⁶~1.0×10⁷ units/mg.

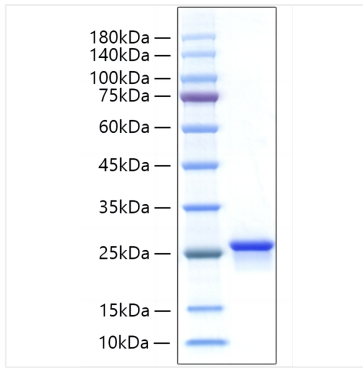
Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

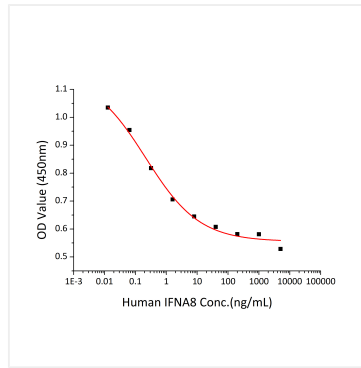
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Human IFN-alpha B2/IFNA8 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 25-30 kDa.



Recombinant Human IFN-alpha B2/IFNA8 was measured in a cell cytotoxicity assay using TF-1 cells. The ED₅₀ for this effect is 0.10-0.42 ng/mL, corresponding to a specific activity of $2.38 \times 10^6 \sim 1.0 \times 10^7$ units/mg.