

Recombinant Human IFN- α B2/IFNA8 Protein

Catalog No.: RP02885

Sequence Information

Species	Gene ID
Human	3445
Swiss Prot	Tags
P32881	C-His

Synonyms

IFNA8; IFN- α 8; IFN α B2; IFN- α B2; IFN- α 8; IFN- α B; interferon α type 201; interferon α -8; Interferon α -B; interferon α -B'; Interferon α -B2; interferon, α 8; I α IF B

Product Information

Source	Purification
HEK293 cells	$\geq 95\%$ as determined by SDS-PAGE.

Calculated MW/Observed MW

20.58 kDa 25–30 kDa

Endotoxin

< 0.01 EU/ μ g of the protein by LAL method

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 free-thaw cycles.

Background

Interferon α -B, also known as IFNA8, belongs to the α /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- α has antiviral activities.

Basic Information

Description

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

Activity

Measured in a cell cytotoxicity assay using TF-1 cells. The ED_{50} 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.

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

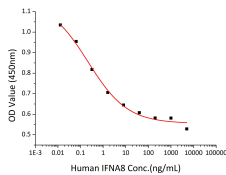
Operational Notes

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

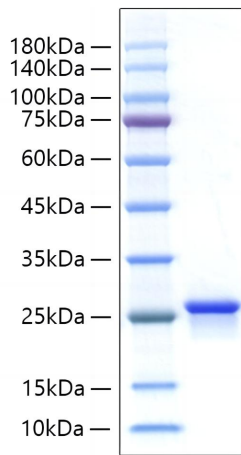
Contact

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Validation Data



Recombinant Human IFN- α B2/IFN α 8 was measured in a cell cytotoxicity assay using TF-1 cells. The ED_{50} 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.



Recombinant Human IFN- α B2/IFN α 8 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.