

Recombinant Mouse IFNA1 Protein

Catalog No.: RP01719

Sequence Information

Species	Gene ID
Mouse	15962
Swiss Prot	Tags
P01572	C-6His

Synonyms

Ifa1; If1ai14;IFNA1

Product Information

Source	Purification
HEK293 cells	≥ 95 % as determined by SDS-PAGE.

Calculated MW

19.96 kDa

Observed MW
20–26 kDa

Endotoxin

< 0.1 EU/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.

Background

IFNA1, also known as IFN-α and IFN-α, 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. They belong to the large class of glycoproteins known as cytokines. IFNs stimulate the production of two enzymes: a protein kinase and an oligoadenylate synthetase. They allow for communication between cells to trigger the protective defenses of the immune system that eradicate pathogens or tumors. IFNs can 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, and they also increase the ability of uninfected host cells to resist new infection by the virus. 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 antiviral activities.

Basic Information

Description

Recombinant Mouse IFNA1 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Cys24–Lys189) of mouse IFNA1 (Accession #NP_034632.2) fused with and a 6×His tag at the C-terminus.

Activity

Measured in a cell cytotoxicity assay using TF-1 cells. The ED₅₀ for this effect is 0.10–0.40 μg/mL, corresponding to a specific activity of 2.48×10³–9.91×10³ 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.

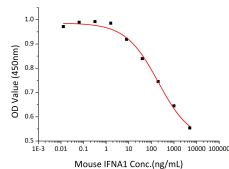
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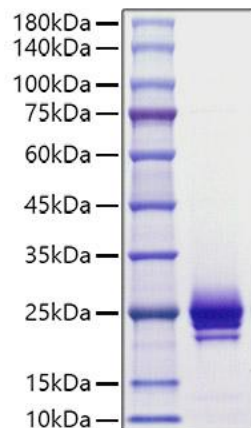
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Validation Data



Recombinant Mouse IFNA1 was measured in a cell cytotoxicity assay using TF-1 cells. The ED₅₀ for this effect is 0.10-0.40 µg/mL, corresponding to a specific activity of 2.48×10³~9.91×10³ units/mg.



Recombinant Mouse IFNA1 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.