

Recombinant Mouse IFNA1 Protein

Catalog No.: RP01719 Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Mouse	15962	P01572

Tags

C-6His

Synonyms

Ifa1; If1ai14;IFNA1

Product Information

Source	Purification
HEK293 cells	> 97% by SDS-PAGE.

Calculated MW	Observed MW
19.96 kDa	20-26 kDa

Endotoxin

< 0.1EU/μg

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.

Contact

 | 400-999-6126

 | cn.market@abclonal.com.cn
 | www.abclonal.com.cn

Background

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. 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.

Bio-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.

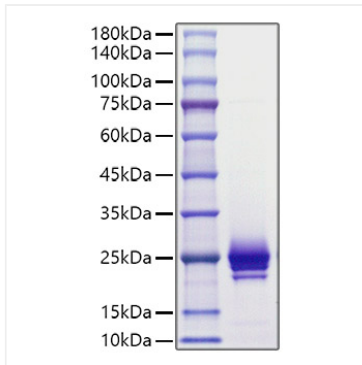
Storage

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

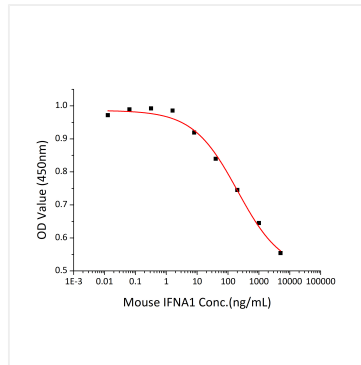
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Mouse IFN α 1 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 20-26 kDa.



Recombinant Mouse IFN α 1 was measured in a cell cytotoxicity assay using TF-1 cells. The ED₅₀ for this effect is 0.10-0.40 μ g/mL, corresponding to a specific activity of $2.48 \times 10^3 \sim 9.91 \times 10^3$ units/mg.