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Datasheet for ABIN7536323 IFNA1 Protein (His tag)

Overview

Quantity:	100 µg
Target:	IFNA1
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This IFNA1 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Mouse IFNA1 Protein
Sequence:	CDLPQTHNLR NKRALTLVQ MRRLSPLSCL KDRKDFGFPQ EKVDAQQIKK AQAIPLSEL TQQLNIFTS KDSSAAWNTT LLDSFCNDLH QQLNDLQGCL MQQVGVQEFPLTQEDALLAV RKYFHRITVY LREKKHSPCA WEVVRAEVWR ALSSSANVLG RLREEK
Specificity:	Cys24-Lys189
Purity:	> 97 % by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	< 0.1EU/µg

Target Details

Target:	IFNA1
Alternative Name:	IFNA1 (IFNA1 Products)

Target Details

Background: Description: 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.

Name: Ifa1, If1ai14,IFNA1

Gene ID: 15962

UniProt: [P01572](#)

Pathways: [JAK-STAT Signaling](#), [Hepatitis C](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

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.

Concentration: 1.65 mg/mL

Buffer: Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.

Storage: -20 °C,-80 °C

Storage Comment: Store the lyophilized protein at -20°C to -80°C for 12 months. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.