

Active Recombinant Mouse Ifna1 Protein, His-tagged

Cat. No. Ifna1-429M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Ifna1 (NP_034632.2) (Cys24-Lys189) was expressed with a polyhistidine tag at the C-terminus.
Species	Mouse
Source	Yeast
ProteinLength	Cys24-Lys189
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 lymph centigradeytes; and they also increase the ability of uninfected host cells to resist new infection by virus. Leuk centigradeyte interferon is produced predominantly by B lymph centigradeytes. Immune interferon is produced by mitogen- or antigen-stimulated T lymph centigradeytes. IFNA1 is produced by macrophages and has antiviral activities.
Predicted N Terminal	Cys 24

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Form	Lyophilized from sterile PBS, pH 7.4. Normally 5 %- 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Bio-activity	Measured in antiviral assays using L929 cells infected with vesicular stomatitisvirus (VSV). The ED50 for this effect is 3-15pg/mL.
Molecular Mass	The recombinant mouse Ifna1 consists of 176 amino acids and predicts a molecular mass of 20.5 kDa
Endotoxin	< 1.0 EU per µg protein as determined by the LAL method.
Purity	> 90 % as determined by SDS-PAGE.
Storage	Samples are stable for up to twelve months from date of receipt at -70 centigrade. Store it under sterile conditions at -20 centigrade to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name	Ifna1 interferon alpha 1 [Mus musculus]
Official Symbol	Ifna1
Synonyms	IFNA1; interferon alpha 1; interferon alpha-1; IFN-alpha-1; interferon alpha family gene 1; Ifa1;
Gene ID	15962

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mRNA Refseq	NM_010502
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Protein Refseq	NP_034632
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