

Recombinant Mouse IFNA14, His-tagged

Cat. No. IFNA14-224M Lot. No. (See product label)

SPECIFICATION

Product Overview

A DNA sequence encoding the mouse IFNA14 (NP_996858.1)(Cys24-Lys189) was expressed with a C-terminal polyhistidine tag.

Species

Mouse

Source

Human Cells

ProteinLength

24-189 a.a.

Description

Interferon alpha-14, also known as Interferon alpha-H, IFN-alpha-14, LeIF H, Interferon lambda-2-H and IFNA14, is a secreted protein which belongs to the alpha/beta interferon family. IFNA14 is produced by macrophages, IFN-alpha have antiviral activities. Interferon stimulates the production of two enzymes: a protein kinase and an oligoadenylate synthetase. Interferons (IFNs) are proteins made and released by host cells in response to the presence of pathogens such as viruses, bacteria, or parasites or tumor cells. They allow communication between cells to trigger the protective defenses of the immune system that eradicate pathogens or tumors. IFNs belong to the large class of glycoproteins known as cytokines. IFNs have other functions: they 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 increase the ability of uninfected host cells to resist new infection by virus. Certain host symptoms, such as aching muscles and fever, are related to the production of IFNs during infection.

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Predicted N Terminal	Cys 24
Form	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose and mannitol are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.
Molecular Mass	The recombinant mouse IFNA14 comprises 177 amino acids and has a predicted molecular mass of 20.5 kDa. The apparent molecular mass of the protein is approximately 20 kDa in SDS-PAGE under reducing conditions.
Endotoxin	< 1.0 eu per µg of the protein as determined by the lal
Purity	>90 % as determined by SDS-PAGE
Stability	Samples are stable for up to twelve months from date of receipt at -70°C
Storage	Store it under sterile conditions at -70°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	Ifna14 interferon, alpha 14 [Mus musculus]
Official Symbol	IFNA14
Synonyms	IFNA14; interferon, alpha 14; RP23-67C1.2; MGC155959; OTTMUSG00000007662;
Gene ID	404549
mRNA Refseq	NM_206975

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Protein Refseq

NP_996858

Pathway

Autoimmune thyroid disease, organism-specific biosystem; Autoimmune thyroid disease, conserved biosystem; Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Cytosolic DNA-sensing pathway, organism-specific biosystem; Cytosolic DNA-sensing pathway, conserved biosystem; Hepatitis C, organism-specific biosystem;

Function

cytokine activity;

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