

Active Recombinant Mouse Ifna13, His-tagged

Cat. No. Ifna13-54M Lot. No. (See product label)

SPECIFICATION

Product Overview A DNA sequence encoding the mouse IFNA13 (Met1-Glu189) was expressed with a C-terminal polyhistidine tag.

Species Mouse

Source Human Cells

ProteinLength 1-189 a.a.

Description

Interferon alpha-13, also known as IFN-alpha-13, Interferon alpha-D, and IFNA13, is a secreted protein which belongs to the alpha / beta interferon family. Interferon alpha-13 / IFNA13 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.
Bio-activity	Measured in antiviral assays using L929 cells infected with vesicular stomatitisvirus (VSV). The ED50 for this effect is typically 10-80 pg/mL.
Molecular Mass	The recombinant mouse IFNA13 comprises 177 amino acids and has a predicted molecular mass of 20.5 kDa. The apparent molecular mass of the protein is approximately 26-31 kDa in SDS-PAGE under reducing conditions.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method
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.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products.

GENE INFORMATION

Gene Name	<i>ifna13</i> interferon alpha 13 [<i>Mus musculus</i> (house mouse)]
Official Symbol	Ifna13
Synonyms	Ifna13; interferon alpha 13; interferon alpha-13; IFN-alpha-13; interferon alpha family, gene 13

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Gene ID	230396
mRNA Refseq	NM_177347
Protein Refseq	NP_796321
UniProt ID	Q80SU4
Chromosome Location	4 C4; 4 42.02 cM
Pathway	Autoimmune thyroid disease; Cytokine-cytokine receptor interaction; Factors involved in megakaryocyte development and platelet production
Function	cytokine activity; cytokine receptor binding

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