

## Recombinant Mouse IFNA5 Protein, His-tagged

**Cat. No.** IFNA5-434M    **Lot. No.** (See product label)

### SPECIFICATION

**Product Overview**      Recombinant Mouse IFNA5 (NP\_034635.2) (Cys24-Glu189) was expressed with a polyhistidine tag at the C-terminus.

**Species**                      Mouse

**Source**                        Yeast

**ProteinLength**              Cys24-Glu189

**Description**

Interferon, alpha 5 (IFNA5) belongs to the alpha/beta interferon family. IFNA5 is the only IFNA subtype detected in normal liver, while a mixture of subtypes is observed in the liver tissue of patients with chronic hepatitis C. Interferons are produced by macrophages, IFN-alpha have antiviral activities. Interferon stimulates the production of two enzymes: a protein kinase and an oligoadenylate synthetase. IFN-alpha, the first cytokine to be produced by recombinant DNA technology, has emerged as an important regulator of growth and differentiation, affecting cellular communication and signal transduction pathways as well as immunological control. Originally discovered as an antiviral substance, the efficacy of IFN-alpha in malignant, viral, immunological, angiogenic, inflammatory, and fibrotic diseases suggests a spectrum of interrelated pathophysiology. IFN-alpha emerged as a prototypic tumor suppressor protein that represses the clinical tumorigenic phenotype in some malignancies capable of differentiation.

**Predicted N Terminal**      Cys 24

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<b>Form</b>	Lyophilized from sterile PBS, pH 7.4. Normally 5 %- 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
<b>Molecular Mass</b>	The recombinant mouse IFNA5 consists of 176 amino acids and predicts a molecular mass of 20.3 kDa.
<b>Endotoxin</b>	< 1.0 EU per µg protein as determined by the LAL method.
<b>Purity</b>	> 90 % as determined by SDS-PAGE.
<b>Storage</b>	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.
<b>Reconstitution</b>	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

<b>Official Symbol</b>	IFNA5
<b>Synonyms</b>	IFNA5; interferon, alpha 5; interferon alpha-5; IFN alphaG; IeIF G; IFN-alpha-5; interferon alpha-G; interferon alpha-61; INFA5; IFN-alphaG;

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