

RP01915

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Recombinant Human IFN- α G/IFNA5 Protein

Catalog No.: RP01915

Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
HEK293 cells	3442	P01569

Tags

C-His

Synonyms

Ifa5; IFNA5; IFN α G; IFN- α G;
IFN- α -5; IFN- α G; INFA5;
interferon α -5; Interferon
 α -61; Interferon α -G;
interferon; α 5; LeIF G

Product Information

Source	Purification
HEK293 cells	

Endotoxin

<0.1EU/ μ g of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μ m filtered solution of PBS, pH 7.4.

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.

Background

Interferon, α 5 (IFNA5) belongs to the α /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- α has antiviral activities. Interferon stimulates the production of two enzymes: a protein kinase and an oligoadenylate synthetase. IFN- α , 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- α in malignant, viral, immunological, angiogenic, inflammatory, and fibrotic diseases suggests a spectrum of interrelated pathophysiologies. IFN- α emerged as a prototypic tumor suppressor protein that represses the clinical tumorigenic phenotype in some malignancies capable of differentiation.

Basic Information

Description

Recombinant Human interferon- α /IFNA5 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Leu22-Glu189) of Human interferon- α /IFNA5 (Accession #NP_002160.1) fused with a His tag at the C-terminus.

Bio-Activity

Measured in a cell cytotoxicity assay using TF-1 cells. The ED₅₀ for this effect is 3.27 \pm 13.06 ng/mL, corresponding to a specific activity of 7.66 $\times 10^4$ ~ 3.06 $\times 10^5$ units/mg.

Storage

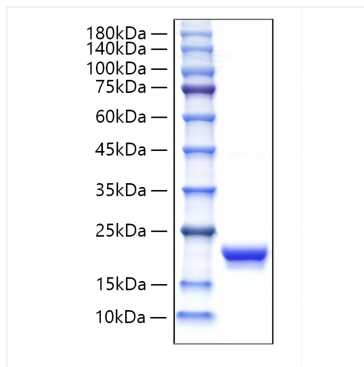
Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.

Contact

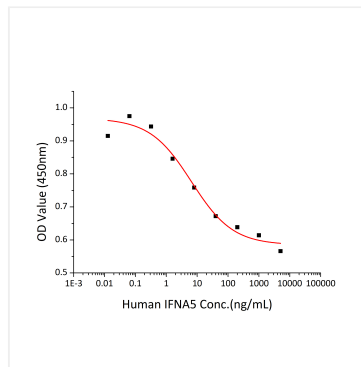


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Validation Data



Recombinant Human IFN-alpha G/IFNA5 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 15-25 KD.



Recombinant Human IFN-alpha G/IFNA5 was measured in a cell cytotoxicity assay using TF-1 cells. The ED₅₀ for this effect is 3.27×10^{-3} ~ 13.06 ng/mL, corresponding to a specific activity of 7.66×10^4 ~ 3.06×10^5 units/mg.