

Recombinant Human IFN- α G/IFNA5 Protein

Catalog No.: RP01915

Sequence Information

Species Gene ID

Human 3442

Swiss Prot Tags

P01569 C-His

Synonyms

Ifa5; IFNA5; IFNalpha G; IFN- α G; IFN- α 5; IFN- α G; INFA5; interferon α -5; Interferon α -61; Interferon α -G; interferon, α 5; LfL G

Product Information

Source Purification

HEK293 cells $\geq 90\%$ as determined by SDS-PAGE.

Calculated MW Observed MW

20.53 kDa 20–25 kDa

Endotoxin

< 0.1 EU/ 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.

Activity

Measured in a cell cytotoxicity assay using TF-1 cells. The ED_{50} for this effect is 3.27–13.06 ng/mL, corresponding to a specific activity of $7.66 \times 10^4 \sim 3.06 \times 10^5$ units/mg.

Shipping

Lyophilized proteins are shipped at ambient temperature. Liquid proteins are shipped at frozen temperature with dry ice. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

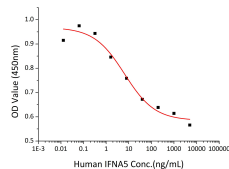
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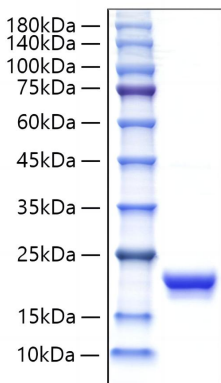
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Validation Data



Recombinant Human IFN-alpha G/IFNA5 was measured in a cell cytotoxicity assay using TF-1 cells. The ED₅₀ for this effect is 3.27~13.06 ng/mL, corresponding to a specific activity of 7.66×10⁴~3.06×10⁵ units/mg.



Recombinant Human IFN-alpha G/IFNA5 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.