

Recombinant Mouse IFN-alpha 7/IFNA7 Protein

Catalog No.: RP01975 Recombinant

Sequence Information

Species Gene ID Swiss Prot Mouse 15970 P06799

Tags

C-6His

Synonyms

Ifna7; If1ai9; Ifna14; Interferon 1ai9; Interferon alpha 7

Product Information

Source Purification HEK293 cells ≥ 90% as

determined by reducing SDS-PAGE.

Calculated MW Observed MW

19.86 kDa 15-20 kDa

Endotoxin

< 1 EU/µg of the protein by LAL method.

Formulation

Lyophilized from $0.22\mu m$ filtered solution in 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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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Background

IFN are a family of cytokines with potent antiviral, antiproliferative and immunomodulatory properties, classified based on their binding specificity to cell surface receptors. Mature mouse IFNA7 consists of 166 aa and shares 59% identity with human IFNA7. The type I IFNs bind to the interferon alpha receptor (IFNAR), which consists of two subunits: IFNAR1 (alpha -subunit) and IFNAR2 (beta -subunit) . Individual IFN alpha subtypes are known to display unique efficacies to viral protection, with IFNA7 showing slightly lower antiviral potency against Mengo virus but maintaining similar anti-proliferative potency in B16 melanoma cells.

Basic Information

Description

Recombinant Mouse IFN-alpha 7/IFNA7 Protein is produced by HEK293 cells system. The target protein is expressed with sequence (Cys24-Glu190) of Mouse IFN-alpha 7/IFNA7(Accession #P06799) fused with His at the C-Terminus.

Bio-Activity

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.