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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	≥ 95% as determined by reducing SDS-PAGE.

Calculated MW	Observed MW
19.86 kDa	20-25 kDa

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

Formulation
Lyophilized from 0.22μm 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

Shipping
The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

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

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

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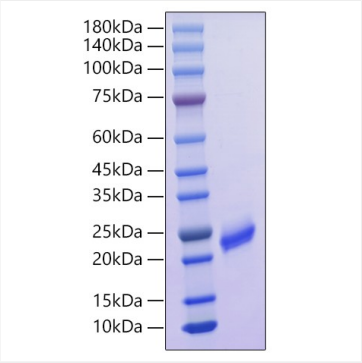
Validation Data



Recombinant Mouse IFN-alpha 7/IFNA7 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.

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