

Recombinant Mouse IFNA9 protein (rFc Tag) (HPLC verified)

Catalog Number: Eg3040

Basic Information

Species:
Mouse**Purity:**
>90 %, SDS-PAGE
 >90 %, SEC-HPLC**Tag:**
rFc Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE
 >90 %, SEC-HPLC**Endotoxin Level:**
<0.1 EU/ µg protein, LAL method**Source:**
HEK293-derived Mouse IFNA9 protein Cys24-Glu190 (Accession# P09235) with a rabbit IgG Fc tag at the C-terminus.**GeneID:**
15972**Accession:**
P09235**Predicted Molecular Mass:**
45.1 kDa**SDS-PAGE:**
44-52 kDa, reducing (R) conditions**Formulation:**
Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

Shipping:

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

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

Interferons (IFNs) are a family of cytokines with potent antiviral, antiproliferative, and immunomodulatory properties. Ifna9 is a type I interferon that binds to the interferon alpha receptor (IFNAR), which consists of two subunits: IFNAR1 (alpha-subunit) and IFNAR2 (beta-subunit). Ifna9 is expressed in various tissues and is induced in L929 cells 6-9 hours after Poly(I).Poly(C) treatment. Differential expression of the IFN-alpha subtypes is observed in influenza A/NWS/33- and B/Lee/40-infected L929 cells. Ifna9 interacts with several proteins, including Ifnar1, Ifna14, Ifna5, Ifna12, Ifna11, Jak2, Irf7, Irf3, and Egfr. These interactions are crucial for the signaling pathways involved in the immune response and antiviral activities. The human ortholog of Ifna9 is IFNA1.

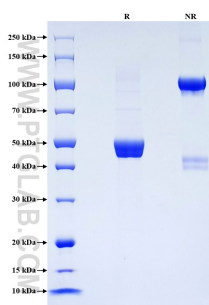
References

1. Bartlett EJ, et al. (2004). Immunol Cell Biol. 82(2):119-26.

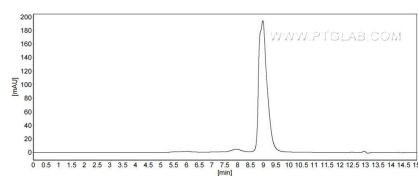
Synonyms

Ifa9, IFN-alpha 9, IFN-alpha-9, Interferon alpha-9

Selected Validation Data



Purity of Recombinant Mouse IFNA9 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.



The purity of Mouse IFNA9 was greater than 90% as determined by SEC-HPLC.