

**Catalog No.:** RP01725    **Recombinant**    **2 Publications**

Species	Gene ID	Swiss Prot
Mouse	15965	P01573

**Tags**  
NO-tag

**Synonyms**  
IFNA2; IFN-alphaA; IFNA; IFNA2B; INFA2;  
interferon alpha-2; Interferon alpha 2  
(IFN- $\alpha$ 2; IFN-alphaA; IFNA; IFNA2B; INFA2

<b>Source</b>	<b>Purification</b>
<i>Pichia</i>	≥ 95 % as determined by SDS-PAGE

Calculated MW	Observed MW
19.33 kDa	20-25 kDa

< 0.1 EU/μg of the protein by LAL method.

Lyophilized from a 0.22  $\mu\text{m}$  filtered solution of PBS, pH 7.4.

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.

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IFNA2 (Interferon Alpha 2) is a Protein Coding gene. This gene is a member of the alpha interferon gene cluster on chromosome 9. The encoded protein is a cytokine produced in response to viral infection. Type I Interferons (IFNs) are well-known cytokines that exert antiviral activity, antitumor activity, and immunomodulatory effects. Interferon tau (IFNT), a type I IFN similar to alpha IFNs (IFNA), is the pregnancy recognition signal produced by the ruminant conceptus. Among the IFN- $\alpha$  genes, a total of 28 different sequence variants have been described. The three principal subtypes of IFN $\alpha$ -2 are designated  $\alpha$ -2a,  $\alpha$ -2b, and  $\alpha$ -2c. IFN $\alpha$ -2b is being the predominant allele while IFN $\alpha$ -2a is less predominant and IFN $\alpha$ -2c only a minor allelic variant.

Recombinant Mouse IFN-alpha 2 Protein is produced by *Pichia* expression system. The target protein is expressed with sequence (Cys24-Glu190) of mouse IFN-alpha 2 (Accession #) fused with no additional amino acid.

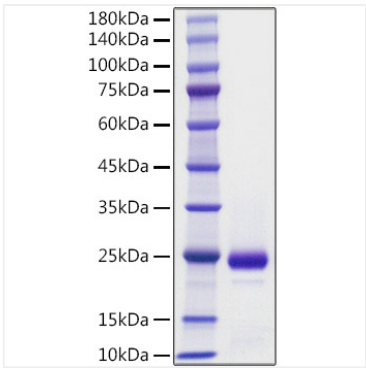
Measured in a cell cytotoxicity assay using TF-1 cells. The ED<sub>50</sub> for this effect is 51.80-207.20 ng/mL, corresponding to a specific activity of 4.83×10<sup>3</sup>~1.93×10<sup>4</sup> units/mg.

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

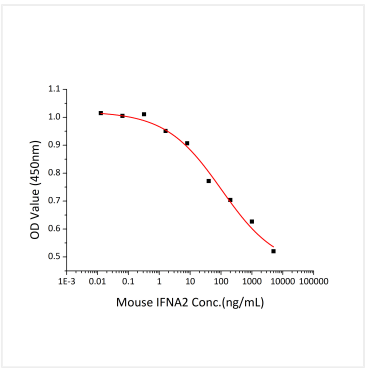
Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.  
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.  
Avoid repeated freeze/thaw cycles.

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

# Validation Data



Recombinant Mouse IFN-alpha 2 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Recombinant Mouse IFN-alpha 2 was measured in a cell cytotoxicity assay using TF-1 cells. The ED<sub>50</sub> for this effect is 51.80-207.20 ng/mL, corresponding to a specific activity of 4.83×10<sup>3</sup>~1.93×10<sup>4</sup> units/mg.