

Recombinant Mouse IFN-alpha 2 Protein

Catalog No.: RP01725 **Recombinant** **1 Publications**

Sequence Information

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- α 2; IFN-alphaA; IFNA; IFNA2B; INFA2)

Product Information

Source	Purification
<i>Pichia</i>	

Calculated MW	Observed MW
19.33 kDa	20-25 kDa

Endotoxin
< 0.1EU/ μ g

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.

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Background

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- α genes, a total of 28 different sequence variants have been described. The three principal subtypes of IFN α -2 are designated α -2a, α -2b, and α -2c. IFN α -2b is being the predominant allele while IFN α -2a is less predominant and IFN α -2c only a minor allelic variant.

Basic Information

Description

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.

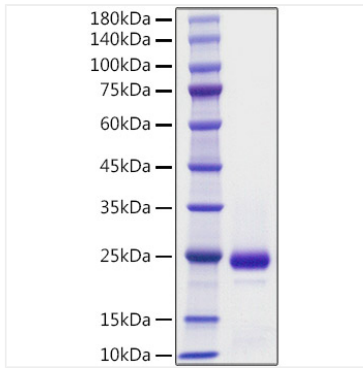
Bio-Activity

Measured in a cell cytotoxicity assay using TF-1 cells. The ED₅₀ for this effect is 51.80-207.20 ng/mL, corresponding to a specific activity of 4.83 \times 10³~1.93 \times 10⁴ units/mg.

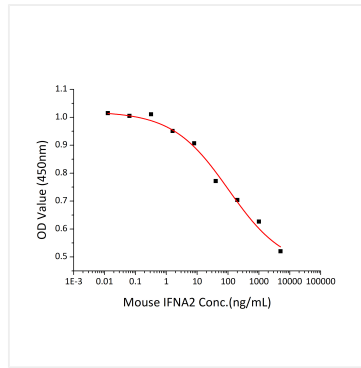
Storage

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.

Validation Data



Recombinant Mouse IFN-alpha 2 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 20-25 kDa.



Recombinant Mouse IFN-alpha 2 was measured in a cell cytotoxicity assay using TF-1 cells. The ED₅₀ for this effect is 51.80-207.20 ng/mL, corresponding to a specific activity of $4.83 \times 10^3 \sim 1.93 \times 10^4$ units/mg.