

Recombinant Mouse IFN-alpha 2 Protein

Catalog No.: RP02903LQ

Recombinant

1 Publications

Sequence Information

Species	Gene ID	Swiss Prot
Mouse	15965	P01573

Tags

No tag

Synonyms

IFNA2;IFN-alpha 2

Product Information

Source	Purification
HEK293	> 95% by Tris-Bis PAGE;> 95% by SEC-HPLC

Calculated MW **Observed MW**

Endotoxin

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

Formulation

0.22 μm filtered solution of PBS, pH 7.4.

Reconstitution

0.2 mg/mL in sterile PBS, pH7.4

Background

Interferon-alpha 2 (IFN alpha -2) is one of 14 subtypes within the IFN-alpha class of Type I Interferons (1). The members of the IFN-alpha class, also known as alpha leukocyte interferons, encompass a group of distinct but closely related proteins which share approximately 80% amino acid (aa) sequence identity and have a similar globular structure composed of five alpha-helices (1,3,4). IFN-alpha class members signal through a common cell surface receptor complex composed of IFN-alpha R2 and IFN-alpha R1 subunits (3). As the first highly active IFN to be cloned and produced, IFN alpha -2 has become the prototypic IFN for academic and pharmaceutical research (2). The mature extracellular domain (ECD) of mouse IFN alpha -2 shares 60% and 83% aa sequence identity with human and rat, respectively. Murine IFN-alpha 2 can eliminate cardiac viral load and protect cardiomyocytes from injury in animals infected with coxsackievirus B3 (CVB3) (5). IFN alpha -2 derived mutants with reduced IFNR2 binding inhibited HIV replication and mutants with more IFNAR1 binding potentiated antiviral activity (6)

Basic Information

Description

Recombinant mouse IFN-alpha 2 Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Cys24-Glu191) of mouse IFN-alpha 2 (Accession #) fused with additional amino acid free.

Bio-Activity

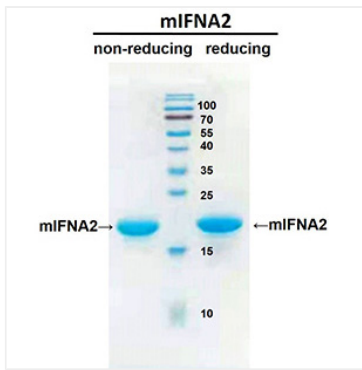
Storage

Store at -70°C. This product is stable at ≤ -70°C for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature. Avoid repeated freeze-thaw cycles. Avoid repeated freeze/thaw cycles.

Contact

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Validation Data



Mouse IFN-alpha 2 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.