

Recombinant Mouse IFN-beta Protein

Catalog No.: RP01883 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Mouse	15977	P01575

Tags

No-tag

Synonyms

Ifnb1; Ifb; Ifnb; Interferon beta; IFN-beta

Product Information

Source	Purification
<i>Pichia</i>	

Calculated MW	Observed MW
19.73 kDa	35-45 kDa

Endotoxin

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

Formulation

Lyophilized from a 0.22 μm 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.

Contact

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Background

Interferon beta (IFN-beta), also known as fibroblast IFN, is a secreted, approximately 22 kDa member of the type I interferon family of molecules. Mature mouse IFN-beta shares 75% and 47% amino acid sequence identity with the rat and human proteins, respectively. Fibroblasts are the major producers of IFN-beta, but it can also be produced by dendritic cells, macrophages, and endothelial cells in response to pathogens. It is transcriptionally regulated by TRAF3, IRF3, IRF7, and NF-kappa B. IFN-beta-deficient mice show increased susceptibility to experimental autoimmune encephalomyelitis (EAE), a disease model of human multiple sclerosis (MS). Furthermore, IFN-beta has been shown to suppress the Th17 cell response in both MS and EAE and has commonly been used as a treatment for MS. IFN-beta can additionally induce the expression of the anti-inflammatory cytokine IL-10.

Basic Information

Description

Recombinant Mouse IFN-beta Protein is produced by *Pichia* expression system. The target protein is expressed with sequence (Ile 22 -Asn 182) of Mouse IFN-beta (Accession #NP_034640.1) fused with no tag.

Bio-Activity

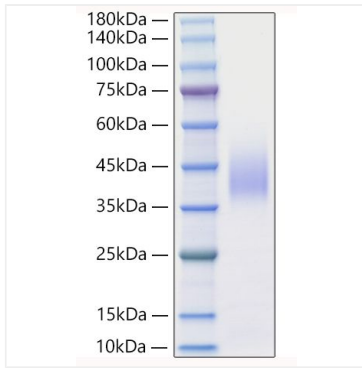
Storage

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-beta Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 35-45 kDa.