

RP01883

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# Recombinant Mouse IFN-beta Protein

Catalog No.: RP01883

Recombinant

## Sequence Information

### Species Gene ID Swiss Prot

<I>Pichia</I> 115977 P01575

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### Tags

No-tag

### Synonyms

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

## Product Information

### Source

### Purification

### 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.

## 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 <I>Pichia</I> 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. <br/>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.

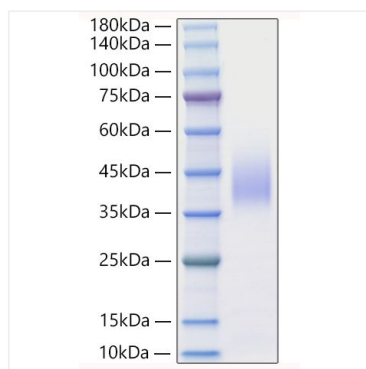
## Contact



[www.abclonal.com](http://www.abclonal.com)

## Validation Data

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