

# Recombinant Mouse IFN-beta protein (His Tag)

Catalog Number: Eg0660

## Basic Information

**Species:**  
Mouse**Purity:**  
>90 %, SDS-PAGE**Tag:**  
C-His

## Technical Specifications

**Purity:**

&gt;90 %, SDS-PAGE

**Endotoxin Level:**

&lt;0.1 EU/ µg protein, LAL method

**Source:**

HEK293-derived Mouse IFN-beta protein Ile22-Asn182 (Accession# P01575) with a His tag at the C-terminus.

**GeneID:**

15977

**Accession:**

P01575

**Predicted Molecular Mass:**

23.8 kDa

**SDS-PAGE:**

kDa, reducing (R) condition

**Formulation:**

Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

## Biological Activity

Not tested

## Storage and Shipping

**Storage:**

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

**Shipping:**

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

## Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

## Background

Interferon beta (IFN-beta) is a cytokine that is naturally produced by the immune system in response to biological and chemical stimuli. It signals by binding to the heterodimeric type I IFN receptor composed of the IFNAR1 and IFNAR2 chains, and regulates the expression of a plethora of genes by means of the classical JAK/STAT and other pathways. Interferon beta (IFN-beta) has been shown in several clinical trials to have efficacy in multiple sclerosis. Interferon beta gene therapy is expected to become widely available for clinical use in cancer patients, and this new strategy might be extended to molecular targeting therapy, or used in combination with cell therapy or other therapies.

## References

1. M Haji Abdolvahab et al. (2016) Int Rev Cell Mol Biol. 326:343-72.
2. Revel M et al. (2003) Pharmacol Ther. 100(1):49-62.
3. Jun Yoshida et al. (2004) Cancer Sci. 95(11):858-65.

## Synonyms

Ifnb1, IFN-beta, Ifb, IFN beta, IFNB

## Selected Validation Data

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For technical support and original validation data for this product please contact

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