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## Recombinant mouse IFN-beta 1/IFNB1 protein

Catalog Number: ATGP0317

#### PRODUCT INFORMATION

## **Expression system**

E.coli

#### **Domain**

22-182aa

#### UniProt No.

P01575

#### **NCBI Accession No.**

NP 034640.1

#### **Alternative Names**

Ifb, IFN-beta, IFNB, Interferon beta 1, Interferon beta, Fibroblast interferon

## **PRODUCT SPECIFICATION**

## **Molecular Weight**

22.0 kDa (182aa) confirmed by MALDI-TOF

### Concentration

0.25mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM HEPES buffer (pH 6.0) containing 0.5M NaCl, 10% glycerol

## **Purity**

> 95% by SDS-PAGE

#### **Endotoxin level**

< 1 EU per 1ug of protein (determined by LAL method)

#### Tag

His-Tag

## **Application**

SDS-PAGE

## **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## **BACKGROUND**

#### **Description**

Interferon beta 1, also known as IFN-beta, is produced mainly by fibroblasts and some epithelial cell types. IFN-beta is involved in the regulation of unspecific humoral immune responses and immune responses against viral infections. It also increases the expression of HLA class I antigens and blocks the expression of HLA class II antigens stimulated by IFN-gamma. Interferon beta 1 can be used for topic treatment of condylomata



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acuminata. Some studies suggest that Interferon beta 1 tends to prevent disease activity in patients with multiple sclerosis. Recombinant Interferon beta 1 protein was expressed in E. coli and purified by using conventional chromatography techniques.

## **Amino acid Sequence**

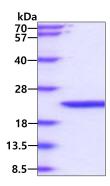
<MGSSHHHHHH SSGLVPRGSH M>INYKQLQLQ ERTNIRKCQE LLEQLNGKIN LTYRADFKIP MEMTEKMQKS YTAFAIQEML QNVFLVFRNN FSSTGWNETI VVRLLDELHQ QTVFLKTVLE EKQEERLTWE MSSTALHLKS YYWRVQRYLK LMKYNSYAWM VVRAEIFRNF LIIRRLTRNF ON

## **General References**

Fierlbeck G, et al. (1992) Hautarzt. 43(1):16-21. Panitch HS. (1992) Drugs. 44(6):946-62.

## **DATA**

#### **SDS-PAGE**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

