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# **Synonym/Alternative name(s):** IFNB1, Type I Interferon

## Activity:

Measure by its ability to induce apoptosis in HeLa cells.

The ED50 for this effect is <15 ng/mL.

☐ 5ug;20ug;100ug;500ug;

Measure by its ability to induce cytotoxicity in TF-1 cells.

The ED50 for this effect is <0.1 ng/mL.

The specific activity of recombinant human IFN beta 1a is approximately >1 x107 IU/ mg.

#### **Protein Description:**

Interferon-beta is, a cytokine, released by fibroblasts and pathogen-exposed dendritic cells, macrophages, and endothelial cells. IFN beta 1a conducts through the heterodimeric IFN-alpha/beta Receptor. IFN-beta-deficient mice are easier to suffer from experimental autoimmune encephalomyelitis (EAE), a disease model of human multiple sclerosis (MS). In addition, IFN-beta has been proved to suppress the Th17 cell response in both MS and EAE and is usually used to treat MS disease.

Protein Accession: P01574.1

Gene ID: 3456

### **Expression Sequence:**

MSYNLLGFLQRSSNFQCQKLLWQLNGRLEYCLKDRMNFDIPEEIKQLQQFQKEDAALTIYEMLQNIFAIFRQDSSSTGWNETIVENLLA NVYHQINHLKTVLEEKLEKEDFTRGKLMSSLHLKRYYGRILHYLKAKEYSHCAWTIVRVEILRNFYFINRLTGYLRN with polyhistidine tag at the C-terminus.

Fusion tag: His-tag?at?the?C-terminus

**Species:** Human Reactivity: Human

**Expression Host:** Escherichia coli

Source: E. coli Purity/method:

>98% as determined by SDS-PAGE. Ni-NTA chromatography

#### **Endotoxin level:**

<0.1 EU per 1  $\mu g$  of the protein by the LAL method.

Calculated Molecular Weight: 20.84 kDa

## Formulation:

The protein was lyophilized from a solution containing 1X PBS, pH 8.0.

#### Reconstitution:

It is recommended to reconstitute the lyophilized protein in sterile H2O to a concentration not less than 100 μg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.

Shipping: Blue Ice

## Stability and Storage:

Lyophilized protein should be stored at -20°C for 1 year.

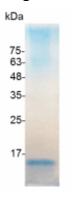
Upon reconstitution, store at 2°C to 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1%

BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at -20°C or -80°C for 3-6 months.

Category: Cytokines

**Application :** Cell culture, Elisa

# Image:



SDS- PAGE analysis of recombinant human IFN beta

1a