

## IFN- $\beta$ , Human

**Cat. No.:** Z03109-5

**Size:** 5.0 ug

**Synonyms:** Leukocyte interferon, B cell interferon, Type I interferon

### Description:

Interferon-beta (IFN- $\beta$ ), acting via STAT1 and STAT2, is known to upregulate and downregulate a wide variety of genes, most of which are involved in the antiviral immune response. It is a member of Type I IFNs, which include IFN- $\alpha$ , - $\beta$ ,  $\tau$ , and  $\omega$ . IFN- $\beta$  plays an important role in inducing non-specific resistance against a broad range of viral infections. It also affects cell proliferation and modulates immune responses.

### Amino Acid Sequence:

```
00001 MSYNLLGFLQ RSSNFQCQKL LWQLNGRLEY CLKDRMNFDI
00041 PEEIKQLQQF QKEDAALTIY EMLQNIFAIF RQSSSTGWN
00081 ETIVENLLAN VYHQINHLKT VLEEKLEKED FTRGKLMSSL
00121 HLKRYYGRI L HYLKAKEYSH CANTIVRVEI LRNFYFINRL
00161 TGYLRN
```

**Source:** HEK 293

**Species:** Human

**Biological Activity:** ED<sub>50</sub> < 0.1 ng/ml, measured in a proliferation assay using TF-1 Cells.

**Molecular Weight:** 23 kDa, observed by reducing SDS-PAGE.

**Formulation:** Lyophilized after extensive dialysis against PBS.

**Reconstitution:** Reconstituted in ddH<sub>2</sub>O or PBS at 100  $\mu$ g/ml.

**Purity:** > 95% as analyzed by SDS-PAGE.

**Endotoxin Level:** < 0.2 EU/ $\mu$ g, determined by LAL method.

**Storage:** Lyophilized recombinant Human Interferon-beta remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, Human Interferon-beta should be stable up to 1 week at 4°C or up to 2 months at -20°C.