

## Interferon-beta (IFN- $\beta$ ), Human

**Cat.no.** PK0146

**Product size:** 5ug 25ug 1mg

**Source:** HEK 293

**Species:** Human

**Biological Activity:** ED50 < 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 at 100  $\mu$ g/mL.

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

**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.

**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 RQDSSSTGWN

00081 ETIVENLLAN VYHQINHLKT VLEEKLEKED FTRGKLMSSL

00121 HLKRYYGRIL HYLKAKEYSH CAWTIVRVEI LRNFYFINRL

00161 TGYLRN

**Synonyms:** Interferon beta, IFN-beta, Fibroblast interferon, IFNB1, IFB, IFNB, IFN $\beta$ , Interferon- $\beta$ , Interferon  $\beta$

**Note:** For research use only, not for use in diagnostic procedure.