VeriKine-HS™ Human Interferon Beta Serum ELISA
Catalog No. 41415

- Allows accurate Human IFN-β measurement to as low as 1.2 pg/ml in human serum, plasma, autoimmune disease sera or cell culture media
- Provides high precision assay reproducibility with <8% inter- and intra-assay CV
- Suitable for measurement of trademarked therapeutic molecules such as Rebif®, Avonex®, Betaseron® and Extavia® in human serum samples*

**Fig 1.** Dose Response in Normal Human Serum Spiked with 0, 1, 3 & 10 U/ml IFN-β

The VeriKine-HS™ Human Interferon Beta Serum ELISA has been developed to measure low or basal levels of human IFN-β in serum, plasma or tissue culture media samples. This assay is also suitable for measurement of trademarked IFN-β therapeutic compounds in human serum.* Researchers and clinical investigators examining a) the pharmacokinetics of IFN-β molecules, b) IFN-β as a biomarker, or c) IFN-β as a pharmacodynamic marker of TLR agent or other immune response modifier activity will find this highly sensitive and specific assay to be an essential laboratory tool.

* Human IFN-β compounds validation performed independently by PharmaNet/i3. Data presented at 2012 AAPS annual meeting.
Interferon beta (IFN-β) has long been known to function as an inhibitor of viral replication as part of body's innate antiviral response. It is also widely used as a treatment for Multiple Sclerosis (MS) patients, either as a single agent or as part of a combinatorial approach. With the resurgence of interest in antitumor immunity as a promising treatment approach for several types of cancers, there has been renewed focus on applying IFN-β as a therapy due to the anti-tumor and immunomodulatory properties of the protein. In addition, ligation of Toll-Like Receptors (TLRs) leads to IFN-β production and, as novel TLR agonists and antagonists are being developed as therapeutics for several diseases, it may be useful to monitor IFN-β level as a downstream readout for compound effectiveness.

**Figure 2.** Correlation between ELISA Standard Curves prepared in Standard Diluent and Normal Human Serum

![Graph](image)

**Figure 3.** IFN Beta in Normal and MS Patient Sera Detected by ELISA kit 41415

![Graph](image)

**Product Information**

- **Catalog Number**: 41415-1
- **Description**: VeriKine-HS™ Human Interferon Beta Serum ELISA
- **Size**: 1 x 96-well plate
- **Compatibility**: Human Serum, Plasma, Cell Culture Media
- **Assay Range**: 1.2 - 150 pg/ml

For more information on this product, visit our website.