

## HUMAN IFNB PROTEIN, HFC TAG

**Cat.#:** 11694

**Product Name:** Human IFNB Protein

**Size:** 10 µg, 50 µg and 100 µg

**Synonyms:** IFB;IFF;IFN-beta;IFNB

**Target:** IFNB

**UNIPROT ID:** P01574

**Description:** Recombinant human IFNB protein with C-terminal human Fc tag

**Background:** This gene encodes a cytokine that belongs to the interferon family of signaling proteins, which are released as part of the innate immune response to pathogens. The protein encoded by this gene belongs to the type I class of interferons, which are important for defense against viral infections. In addition, type I interferons are involved in cell differentiation and anti-tumor defenses. Following secretion in response to a pathogen, type I interferons bind a homologous receptor complex and induce transcription of genes such as those encoding inflammatory cytokines and chemokines. Overactivation of type I interferon secretion is linked to autoimmune diseases. Mice deficient for this gene display several phenotypes including defects in B cell maturation and increased susceptibility to viral infection. [provided by RefSeq, Sep 2015]

**Species/Host:** HEK293

**Molecular Weight:** The protein has a predicted molecular mass of 43.6 kDa after removal of the signal peptide.

**Molecular Characterization:** IFNB(Met22-Asn187) hFc(Glu99-Ala330)

**Purity:** The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.

**Formulation & Reconstitution:** Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization.

**Storage & Shipping:** Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.