

**DATASHEET**  
Version 20181206**IFN- $\alpha$  2b, Human****Cat. No.:** Z03002-10**Size:** 10.0 ug**Synonyms:** Interferon alpha 2b, IFNA, INFA2, MGC125764, MGC125765**Description:**

Interferon-Alpha 2b (IFN-Alpha 2b) produced by leukocytes is a member of Interferon family. IFN-alpha is mainly involved in innate immune response against a broad range of viral infections. IFN-alpha 2 has three acid stable forms (a,b,c) signaling through IFNAR2. IFN-alpha 2b shares 99.4% aa sequence identity with both IFN-alpha 2a and 2c. IFN-alpha contains four highly conserved cysteine residues which form two disulfide bonds, one of which is necessary for biological activity.

Recombinant human Interferon-Alpha 2b (rhIFN-Alpha 2b) produced in *E.coli* is a single non-glycosylated polypeptide chain containing 165 amino acids. A fully biologically active molecule, rhIFN-Alpha 2b has a molecular mass of 19.2kDa analyzed by reducing SDS-PAGE and is obtained by proprietary chromatographic techniques at GenScript.

**Amino Acid Sequence:**

00001 CDLPQTHSLG SRRTLMLLAQ MRRISLFSCL KDRHDFGFPQ  
00041 EEFGNQFKA ETIPVLHEMI QQIFNLFSTK DSSAAWDETL  
00081 LDKFYTELYQ QLNDLEACVI QGVGVTTETPL MKEDSILAVR  
00121 KYFQRITLYL KEKKYSPCAW EVVRAEIMRS FSLSTNLQES  
00161 LRSKE

**Source:** *E. coli***Species:** Human**Biological Activity:** ED<sub>50</sub> < 0.05 ng/ml, measured by a cytotoxicity assay using TF-1 Cells, corresponding to a specific activity of > 2.0 × 10<sup>7</sup> units/mg.**Molecular Weight:** 19.2kDa, observed by reducing SDS-PAGE.**Formulation:** Lyophilized after extensive dialysis against PBS.**Reconstitution:** Reconstituted in ddH<sub>2</sub>O at 100 µg/ml.**Purity:** > 95% by SDS-PAGE and HPLC analyses.**Endotoxin Level:** < 0.2 EU/µg, determined by LAL method.**Storage:** Lyophilized recombinant human Interferon-Alpha 2b (rhIFN-Alpha 2b) remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, rhIFN-Alpha 2b should be stable up to 2 weeks at 4°C or up to 3 months at -20°C.