

Interferon- α 1b

Human, Recombinant (rHuIFN- α 1b)

Expressed in *E. coli*

Cat. No. CRP0888

Lot. No. (See product label)

PRODUCT INFORMATION

Description: At least 23 different variants of IFN- α are known. The individual proteins have molecular masses between 19-26 kDa and consist of proteins with lengths of 156-166 and 172 amino acids. All IFN- α subtypes possess a common conserved sequence region between amino acid positions 115-151 while the amino-terminal ends are variable. Many IFN- α subtypes differ in their sequences at only one or two positions. Naturally occurring variants also include proteins truncated by 10 amino acids at the carboxy-terminal end.

Amino-Acid Sequence: 166aa, non-glycosylated

M. W. : approximately 19kDa

Recombinant: Expressed in *E. coli*

Purity: >96% by SDS-PAGE and HPLC analyses.

Formulation: Lyophilized from a 0.2 μ m filtered concentrated (1mg/ml) solution in PBS, pH 7.4.

Endotoxin: Less than 1EU/ μ g of rHuIFN- α 1b as determined by LAL method.

Reconstitution: We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/ml. Stock solutions should be apportioned into working aliquots and stored at <-20°C. Further dilutions should be made in appropriate buffered solutions.

Storage: This lyophilized preparation is stable for several weeks at 2-8°C, but should be kept at -20°C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -70°C. Avoid repeated freeze/thaw cycles.

GENE INFORMATION

Gene Name: [IFNA1](#)

Synonyms: interferon, alpha 1; IFNA@, IFL, IFN, IFN-ALPHA, IFNA13; IFN-alpha 1b, interferon alpha 1b;IFNA1_HUMAN; Interferon alpha-1/13 [Precursor]; Interferon alpha-D; IeIF D;MGC138207; MGC138505; MGC138507; OTTHUMP00000045110.

mRNA Refseq: [NM_024013](#)

Protein Refseq: [NP_076918](#)

MIM : [147660](#)

GeneID: [3439](#)

UniProt ID: P01562

Chromosome Location: 9p22

Pathway: Antigen processing and presentation; Cytokine-cytokine receptor interaction;Jak-STAT signaling pathway; Natural killer cell mediated cytotoxicity; Regulation of autophagy; Toll-like receptor signaling pathway

REFERENCES

- 1.Bekisz J, Schmeisser H, Hernandez J, et al. (2005). Human interferons alpha, beta and omega. *Growth Factors* **22** (4): 243–51.
- 2.Copeland KF (2006). Modulation of HIV-1 transcription by cytokines and chemokines. *Mini reviews in medicinal chemistry* **5** (12): 1093–101.
- 3.Capobianchi MR, Ankel H, Ameglio F, et al. (1992). Recombinant glycoprotein 120 of human immunodeficiency virus is a potent interferon inducer. *AIDS Res. Hum. Retroviruses* **8** (5): 575–9.

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