

# Recombinant Human Interferon, Alpha 1

**Cat. No.** IFNA1-5280H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant Human IFNA1 is produced in E. coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	At least 23 different variants of IFNA1 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 IFNA1 subtypes possess a common conserved sequence region between amino acid positions 115-151 while the amino-terminal ends are variable. Many IFNA1 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.
<b>Form</b>	Lyophilized from a 0.2 um filtered solution in PBS, pH 7.4.
<b>Purity</b>	> 96% by SDS-PAGE and HPLC analyses.
<b>Endotoxin Level</b>	Less than 1 EU/mL of rHuIFN- $\alpha$ 1b as determined by LAL method.
<b>Biological Activity</b>	Fully biologically active when compared to standard. The specific activity as determined in a viral resistance assay was found to be no less than 1.0 x 10 <sup>8</sup> IU/mg.
<b>Reconstitution</b>	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 to

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a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at  $\leq 20^{\circ}\text{C}$ . Further dilutions should be made in appropriate buffered solutions.

**Storage**

This lyophilized preparation is stable at  $2-8^{\circ}\text{C}$ , but should be kept at  $-20^{\circ}\text{C}$  for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at  $2-8^{\circ}\text{C}$ . For maximal stability, apportion the reconstituted preparation into working aliquots and store at  $-20^{\circ}\text{C}$  to  $-80^{\circ}\text{C}$ . Avoid repeated freeze/thaw cycles.

**Official Symbol**

IFNA1

## GENE INFORMATION

**Gene Name**

IFNA1 interferon, alpha 1 [ [Homo sapiens](#) ]

**Synonyms**

IFNA1;interferon, alpha 1; IFL; IFN; IFNA; IFNA13; IFN-ALPHA;MGC138207; MGC138505; MGC138507; IFN-alphaD; interferon alpha-1/13; IeIF D;IFN-alpha 1b; IFN-alpha-1/13; interferon-alpha1; OTTHUMP00000021142;interferon alpha-D; interferon alpha 1b

**Gene ID**

[3439](#)

**mRNA Refseq**

[NM\\_024013](#)

**Protein Refseq**

[NP\\_076918](#)

**MIM**

[139250](#)

**UniProt ID**

[P01562](#)

**Chromosome**

9p22

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**Location****Pathway**

Autoimmune thyroiddisease; Cytokine Signaling in Immune system; Cytokine-cytokine receptorinteraction; Cytosolic DNA-sensing pathway; Factors involved in megakaryocytedevelopment and platelet production; Hemostasis; Hepatitis C; Herpes simplexinfection; IL-2 Signaling Pathway; Immune System; Interferon Signaling

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