

Recombinant Human Interferon, Alpha 1

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

SPECIFICATION

Product Overview	Recombinant Human IFNA1 is produced in E. coli.
Species	Human
Source	E.coli
Description	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.
Form	Lyophilized from a 0.2 µm filtered solution in PBS, pH 7.4.
Purity	> 96% by SDS-PAGE and HPLC analyses.
Endotoxin Level	Less than 1 EU/mL of rHuIFN-α1b as determined by LAL method.
Biological Activity	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 ⁸ IU/mg.
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 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°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°C to -80°C . Avoid repeated freeze/thaw cycles.

Official Symbol

IFNA1

GENE INFORMATION

Gene Name

IFNA1 interferon, alpha 1 [Homosapiens]

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 thyroid disease; Cytokine Signaling in Immune system; Cytokine-cytokine receptor interaction; Cytosolic DNA-sensing pathway; Factors involved in megakaryocyte development and platelet production; Hemostasis; Hepatitis C; Herpes simplex infection; IL-2 Signaling Pathway; Immune System; Interferon Signaling

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