

# Recombinant Human IFNA1 protein

Cat. No. IFNA1-06H Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant Human IFNA1 alpha 1a protein was expressed in Escherichia coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	167
<b>Description</b>	<p>IFN-<math>\alpha</math>s are proteins secreted by leukocyte. They are mainly involved in innate immune response against viral infection. The IFN-<math>\alpha</math> family has 13 subtypes and 23 different variants. 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-<math>\alpha</math> subtypes possess a common conserved sequence region between amino acid positions 115-151 while the amino-terminal ends are variable. Many IFN-alpha 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.</p>
<b>Form</b>	Lyophilized from a 0.2 $\mu$ m filtered solution in PBS, pH 7.4, containing 3 % Mannitol, 5 % Trehalose, 0.05 % Tween-80.
<b>Bio-activity</b>	Fully biologically active when compared to standard. The specific activity determined by an anti-viral assay is no less than $1.0 \times 10^8$ IU/mg.

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<b>Molecular Mass</b>	Approximately 19.5 kDa, a single non-glycosylated polypeptide chain containing 167 amino acids.
<b>AA Sequence</b>	MCDLPETHSLDNRRTLMLLAQMSRISPSSCLMDRHDFGFPQEEFDGNQFQKAPAI VLHELIQQIFNLFTTKDSSAAWDEDLLDKFCTELYQQLNDLEACVMQEERVGETPLM NADSILAVKKYFRRITLYLTEKKYSPCAWEVVRAEIMRSLSLSTNLQERLRRKE
<b>Endotoxin</b>	Less than 0.1 EU/g of rHuIFN- $\alpha$ 1a as determined by LAL method.
<b>Purity</b>	>97% by SDS-PAGE and HPLC analysis.
<b>Storage</b>	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
<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 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 $\leq$ -20 centigrade. Further dilutions should be made in appropriate buffered solutions.

## GENE INFORMATION

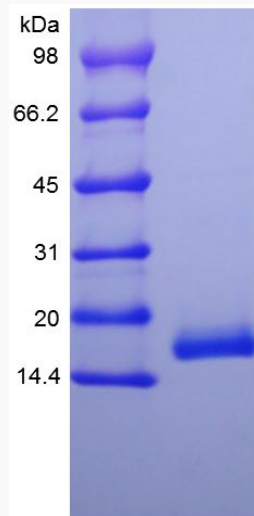
<b>Gene Name</b>	IFNA1
<b>Official Symbol</b>	IFNA1
<b>Synonyms</b>	IFNA1; interferon, alpha 1; interferon alpha-1/13; IFL; IFN; IFN ALPHA; IFN alpha 1b; IFN alphaD; IFNA13; IFNA@; interferon alpha 1b; leIF D; IFN-alpha 1b; IFN-alpha-1/13; interferon-alpha1; interferon alpha-D; IFN-ALPHA; IFN-alphaD; MGC138207;

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MGC138505; MGC138507;

**Gene ID** 3439**mRNA Refseq** NM\_024013**Protein Refseq** NP\_076918**MIM** 147660**UniProt ID** P01562**SDS-PAGE of IFNA1-06H** Tel: 1-631-559-9269 1-516-512-3133 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127 45-1 Ramsey Road, Shirley, NY 11967, USA