# Active Recombinant Human IFNA2 Protein

**Cat. No.** IFNA2-075H **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | The mature recombinant human IFN-α2 protein containing 166 amino acid residues without tag was expressed in E. coli. |
| **Species** | Human |
| **Source** | E.coli |
| **Description** | This gene is a member of the alpha interferon gene cluster on chromosome 9. The encoded cytokine is a member of the type I interferon family that is produced in response to viral infection as a key part of the innate immune response with potent antiviral, antiproliferative and immunomodulatory properties. This cytokine, like other type I interferons, binds a plasma membrane receptor made of IFNAR1 and IFNAR2 that is ubiquitously expressed, and thus is able to act on virtually all body cells. The encoded protein is effective in reducing the symptoms and duration of the common cold and in treating many types of cancer, including some hematological malignancies and solid tumors. A deficiency of type I interferon in the blood is thought to be a hallmark of severe COVID-19 and may provide a rationale for a combined therapeutic approach. |
| **Bio-activity** | Specific activity is 1.86 x 108 units/mg, as determined in a cytopathic effect inhibition assay using EMC virus on A549 cells. |
| **Molecular Mass** | 19.4 kDa |
| **Endotoxin** | < 0.1 |

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| | EU/μg of the protein as determined by the LAL method |
| **Purity** | > 95 % as determined by SDS-PAGE |
| **Storage** | At -80 centigrade. Avoid repeated freeze-thaw cycles. |
| **Storage Buffer** | PBS |

## GENE INFORMATION

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| **Gene Name** | IFNA2 interferon alpha 2 [ Homo sapiens (human) ] |
| **Official Symbol** | IFNA2 |
| **Synonyms** | IFNA2; interferon alpha 2; IFNA; IFNA2B; leIF A; IFN-alphaA; IFN-alpha-2; interferon alpha-2; Names; alpha-2a interferon; interferon alpha 2a; interferon alpha 2b; interferon alpha A |
| **Gene ID** | 3440 |
| **mRNA Refseq** | NM_000605 |
| **Protein Refseq** | NP_000596 |
| **MIM** | 147562 |
| **UniProt ID** | P01563 |

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