

Active Recombinant Human IFNA2 Protein

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

SPECIFICATION

Product Overview	The mature recombinant human IFN- α 2 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 1.86×10^8 units/mg, as determined in a cytopathic effect inhibition assay using EMC virus on A549 cells.
Molecular Mass	19.4 kDa
Endotoxin	< 0.1

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

	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

Gene Name	IFNA2 interferon alpha 2 [Homo sapiens (human)]
Official Symbol	IFNA2
Synonyms	IFNA2; interferon alpha 2; IFNA; IFNA2B; IeIF 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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