

Active Recombinant Human IFNA2 Protein (24-188aa)

Cat. No. IFNA2-10H Lot. No. (See product label)

SPECIFICATION

Product Overview	Interferon alpha-2b was expressed in E. coli and purified by conventional chromatography, after refolding of the isolated inclusion bodies in a renaturation buffer.
Species	Human
Source	E.coli
ProteinLength	24-188aa
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.
Form	Liquid
Bio-activity	Measured by its binding ability in a functional ELISA with Human IFN-alpha/beta R2

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in the presence of Human IFN-alpha/beta R1.

Molecular Mass	19.4 kDa (166aa) confirmed by MALDI-TOF
AA Sequence	MCDLPQTHSLGSRRTLMLLAQMRRISLFSCLKDRHDFGFPQEEFGNQFQKAETIPVL HEMIQQIFNLFSTKDSSAAWDETLDDKFKYTELYQQLNDLEACVIQGVGVTTETPLMKE DSILAVRKYFQRITLYLKEKKYSPCAWEVVRAEIMRSFSLSTNLQESLRSKE
Endotoxin	< 1 EU/μg of protein (determined by LAL method)
Purity	> 95% by SDS-PAGE
Applications	SDS-PAGE, Bioactivity
Storage	Can be stored at +2 to +8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -80 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	0.5 mg/mL (determined by Bradford assay)
Storage Buffer	Phosphate-Buffered Saline (pH 7.4), 10% glycerol

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; alpha-2a interferon; interferon alpha 2a; interferon alpha 2b; interferon alpha A

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Gene ID 3440

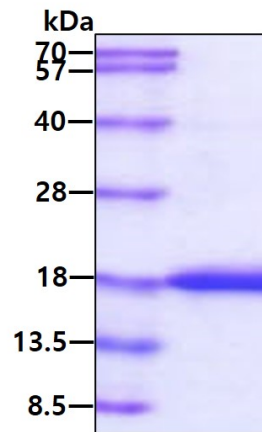
mRNA Refseq NM_000605

Protein Refseq NP_000596

MIM 147562

UniProt ID P01563

SDS-PAGE



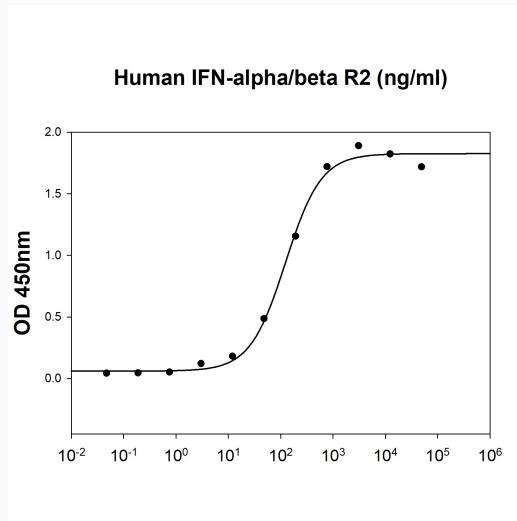
3 µg by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

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Biological Activity



Human IFN-alpha 2 is coated at 10 µg/mL (100 µL/well) can bind Human IFN-alpha/beta R2 in the presence of Human IFN-alpha/beta R1.

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