

Recombinant human IFNA2, Active, His-tagged

Cat. No. IFNA2-1554H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human IFN-alpha-2a is a polypeptide single chain containing 171 amino acids with a predicted molecular mass of 20.1 kDa. Recombinant human IFN-alpha-2 contains a His-tag at the C-terminal end.
Species	Human
Source	Nicotiana Benthamiana
ProteinLength	171 a.a.
Description	Interferon alpha 2a is an interferon class I produced by the cells of the innate immune system as a part of the defense response to foreign agents such as viruses, parasites and tumour cells. The human alpha-interferon family displays broad spectrum antiviral, antiproliferative and immunomodulatory activities on a variety of cell types. Interferon Alpha-2a (IFNa-2a), one of the subtypes, is a protein consisting of 165 amino acid. Its three-dimensional loop structure is maintained by two disulphide bridges. It has an approximate molecular weight of 20 kDa.
Form	Recombinant human Interferon alpha 2a is lyophilized from a Tris HCl 0.05M buffer at pH 7.4 and 0.01% SDS.
Molecular Mass	20.1 kDa
AA Sequence	CDLPQTHSLGSRRTLMLLAQMRKISLFSLCKDRHDFGFPQEEFGNQFQKAETIPVLH EMIQQIFNLFSTKDSSAA WDETLLDKFYTELYQQLNDLEACVIQGVGVGTETPLMKED

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	SILAVRKYFQRITLYLKEKKYSPCAWEVVRAEIMRS FSLSTNLQESLRSKEHHHHHH
Endotoxin	< 0.04="" eu/μg="" protein="" (lal="">
Purity	>97% by SDS-PAGE gel
Storage	This lyophilized preparation is stable at 2-8o C for short term, long storage it should be kept at -20oC. Reconstituted protein should be stored in working aliquots at –20°C. Repeated freezing and thawing is not recommended.
Reconstitution	Centrifuge vial before opening. Lyophilized protein should be reconstituted in water to a concentration of 50 ng/μl. Optimal concentration should be determined for specific application and cell lines.

GENE INFORMATION

Gene Name	IFNA2 interferon, alpha 2 [Homo sapiens]
Official Symbol	IFNA2
Synonyms	IFNA2; interferon, alpha 2; interferon alpha-2; alpha 2a interferon; IFN alphaA; IFNA; interferon alpha 2b; interferon alpha A; leIF A; IFN-alpha-2; alpha-2a interferon; INFA2; IFNA2B; IFN-alphaA; MGC125764; MGC125765;
Gene ID	3440
mRNA Refseq	NM_000605
Protein Refseq	NP_000596
MIM	147562

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UniProt ID	P01563
Chromosome Location	9p22
Pathway	Autoimmune thyroid disease, organism-specific biosystem; Autoimmune thyroid disease, conserved biosystem; Cytokine Signaling in Immune system, organism-specific biosystem; Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Cytosolic DNA-sensing pathway, organism-specific biosystem; Cytosolic DNA-sensing pathway, conserved biosystem;
Function	cytokine activity; interferon-alpha/beta receptor binding; protein binding;

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