

# Active Recombinant Human IFNA1 protein, His-GST-tagged

Cat. No. IFNA1-637H Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Active Recombinant Human IFNA1 protein(P01562)(24~181 aa), fused with N-terminal His tag and GST tag, was expressed in E.coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	24-181 aa
<b>Form</b>	Lyophilized from sterile PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
<b>Bio-activity</b>	Interferon-alpha (IFN- $\alpha$ ), also known as leukocyte interferon, represents a group of related but distinct proteins that share over 95% amino acid sequence homology. They are members of the type I interferon family which share a common cell surface receptor composed of two subunits. IFN- $\alpha$ has both anti-viral and immunomodulatory activities on target cells. To test the effect of IFN- $\alpha$ on cell apoptosis, A549 cells were seeded into 96-well plates at a density of 3,000 cells/well with 1% serum standard DMEM including various concentrations of recombinant human IFN- $\alpha$ . After incubated for 48h, cells were observed by inverted microscope and cell proliferation was measured by Cell Counting Kit-8 (CCK-8). Briefly, 10 $\mu$ of CCK-8 solution was added to each well of the plate, then the absorbance at 450 nm was measured using a microplate reader after incubating the plate for 2 hours at 37°C. Proliferation of A549 cells after incubation with IFN- $\alpha$ for 48h observed by inverted microscope was shown.

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Cell viability was assessed by CCK-8 (Cell Counting Kit-8 ) assay after incubation with recombinant human IFN- $\alpha$  for 48h. It was obvious that IFN- $\alpha$  significantly inhibit cell viability of A549 cells. The ED50 is 3.4 g/mL.

<b>Molecular Mass</b>	48.2kDa
<b>Endotoxin</b>	<1.0EU per 1 $\mu$ g (determined by the LAL method).
<b>Purity</b>	> 90% as determined by SDS-PAGE.
<b>Storage</b>	Avoid repeated freeze/thaw cycles. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.
<b>Reconstitution</b>	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0mg/mL. Do not vortex.

## GENE INFORMATION

<b>Gene Name</b>	IFNA1 interferon, alpha 1 [ Homo sapiens ]
<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; MGC138505; MGC138507;
<b>Gene ID</b>	3439
<b>mRNA Refseq</b>	NM_024013

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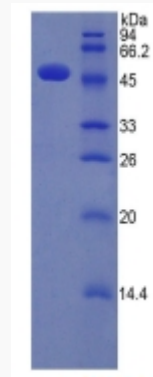
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**Protein Refseq** NP\_076918

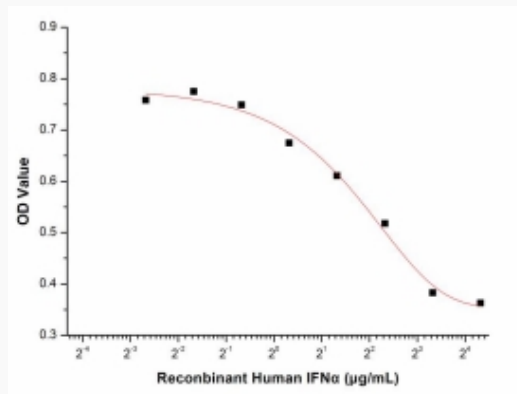
**MIM** 147660

**UniProt ID** P01562

**SDS-PAGE**



**Activity**



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