

Active Recombinant Human IFNA1 protein, His-GST-tagged

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

SPECIFICATION

Product Overview	Active Recombinant Human IFNA1 protein(P01562)(24~181 aa), fused with N-terminal His tag and GST tag, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	24-181 aa
Form	Lyophilized from sterile PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Bio-activity	Interferon-alpha (IFN-α), 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-α has both anti-viral and immunomodulatory activities on target cells. To test the effect of IFN-α 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-α. After incubated for 48h, cells were observed by inverted microscope and cell proliferation was measured by Cell Counting Kit-8 (CCK-8). Briefly, 10 μl 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-α 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- α for 48h. It was obvious that IFN- α significantly inhibit cell viability of A549 cells. The ED50 is 3.4 g/mL.

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

GENE INFORMATION

Gene Name	IFNA1 interferon, alpha 1 [Homo sapiens]
Official Symbol	IFNA1
Synonyms	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;
Gene ID	3439
mRNA Refseq	NM_024013

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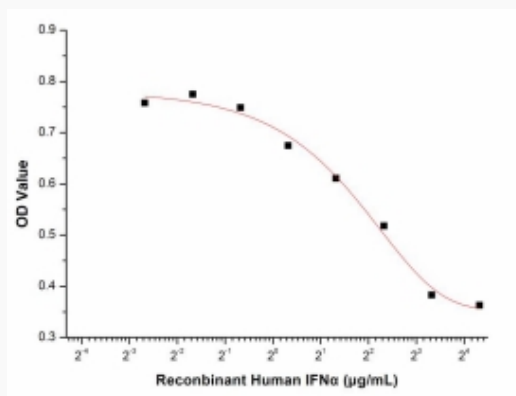
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Protein Refseq NP_076918

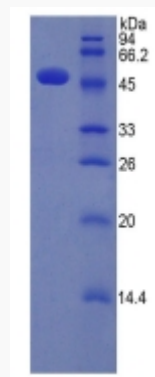
MIM 147660

UniProt ID P01562

Activity



SDS-PAGE



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