

Active Recombinant Horse IFNB1 protein, His-GST-tagged

Cat. No. IFNB1-1756H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Horse IFNB1 protein(P05012)(22~186 aa), fused with N-terminal His tag and GST tag, was expressed in E.coli.
Species	Horse
Source	E.coli
ProteinLength	22-186 aa
Form	Lyophilized from sterile PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Bio-activity	Interferon Beta (IFNb) is belongs to type I interferons (IFNs) family which a large subgroup of interferon proteins that help regulate the activity of the immune system.The IFNb proteins are produced in large quantities by fibroblasts. They have antiviral activity that is involved mainly in innate immune response. Two types of IFNb have been described, IFNb1 (IFNB1) and IFNb3 (IFNB3). IFNb1 is used as a treatment for multiple sclerosis as it reduces the relapse rate. To test the effect of IFNb on cell apoptosis, A549 cells were seeded into triplicate wells of 96-well plates at a density of 4,000 cells/well and allowed to attach overnight, then the medium was replaced with various concentrations of recombinant horse IFNb diluted with 5% serum standard DMEM. After incubated for 72h, cells were observed by inverted microscope and cell proliferation was measured by Cell Counting Kit-8 (CCK-8). Briefly, 10 µof CCK-8 solution was added to each well of the plate, then the

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absorbance at 450 nm was measured using a microplate reader after incubating the plate for 1-4 hours at 37°C. Apoptosis of A549 cells after incubation with IFNb for 72h observed by inverted microscope was shown. Cell viability was assessed by CCK-8 (Cell Counting Kit-8) assay after incubation with recombinant IFNb for 72h. It was obvious that IFNb significantly decreased cell viability of A549 cells. The ED50 of recombinant horse IFNb is 3.95 ug/ml.

Molecular Mass	49.5kDa
Endotoxin	<1.0EU per 1µg (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 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	IFNB1 interferon, beta 1, fibroblast [Equus caballus]
Official Symbol	IFNB1
Synonyms	IFNB1; interferon, beta 1, fibroblast; interferon beta; IFN-beta; interferon-beta;
Gene ID	100052545
mRNA Refseq	NM_001099440

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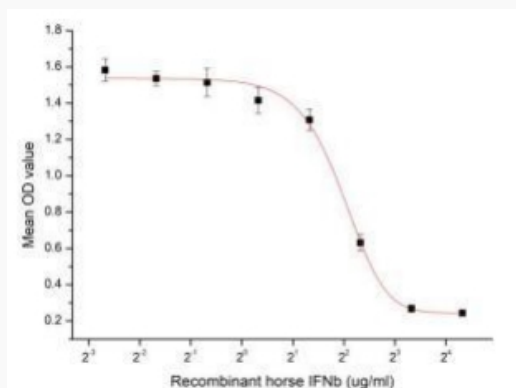
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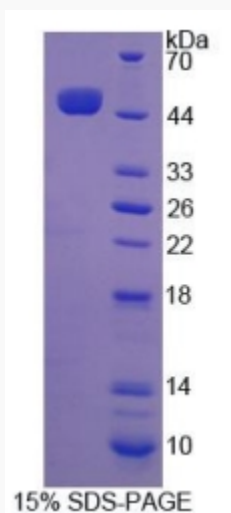
Protein Refseq

NP_001092910

Activity



SDS-PAGE



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