Active Recombinant Dog IFNB1 protein, His-GST-tagged

Cat. No. IFNB1-241D **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Dog IFNB1 protein(B6E116)(21~186 aa), fused with N-terminal His tag and GST tag, was expressed in E.coli.
Species	Dog
Source	E.coli
ProteinLength	21-186 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 dog 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 absorbance at 450 nm

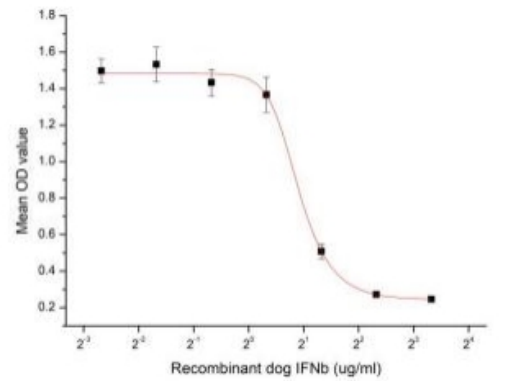
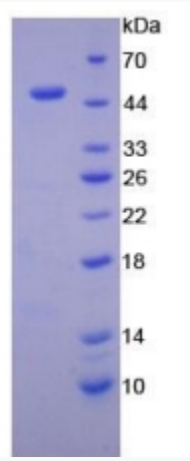
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	was measured using a microplate reader after incubating the plate for 1-4 hours at 37°C. Apoptosis of A549 cells after incubation with IFNb for 72h observed by inverted microscope was shown. Cell viability was assessed by CCK-8 (Cell Counting Kit-8) assay after incubation with recombinant dog IFNb for 72h. It was obvious that IFNb significantly decreased cell viability of A549 cells. The EC50 of recombinant dog IFNb is 1.86 μg/ml.
Molecular Mass	50.1kDa
Endotoxin	<1.0EU per 1μg (determined by the LAL method).
Purity	> 97% 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 [Canis lupus familiaris]
Official Symbol	IFNB1
Synonyms	IFNB1; interferon, beta 1, fibroblast; interferon beta;
Gene ID	481558
mRNA Refseq	NM_001135787

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Protein Refseq	NP_001129259
Activity	
SDS-PAGE	

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