

Interferon Beta (IFN β) Active Protein | IFN β active protein

Active Interferon Beta (IFN β)

CATALOG # AAA150973	HOST E Coli	APPLICATIONS Activity Assay, Cell Culture
-------------------------------	-----------------------	---

PRODUCT SYNONYMS

Interferon Beta (IFN β); Active Interferon Beta (IFN β); IFN β /Interferon Beta; IFN β 1; IFN-B; IFB; IFF; IFNB; Interferon Beta 1 Fibroblast; IFN β active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 97% by SDS-PAGE
Form/Format	Freeze-dried powder 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Sequence	Met22~Asn1 87
Applicable Applications for IFN β active protein	Activity Assay, Cell Culture
Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Tag	N-terminal His Tag
Biological Activity	Active
Expression System	Prokaryotic expression
Organism Species	Human
Isoelectric Point	8.9
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (PH8.0) to a concentration of 0.1-1.0mg/mL. Do not vortex.
Preparation and Storage	Store at 2-8 degree C for one month, -80 degree C for 12 months Stable for 12 months if correctly stored. The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

IMAGES



ADDITIONAL INFORMATION

Related Product Information for IFNb active protein	Interferon Beta (IFNb) is belongs to type I interferons (IFNs) family which a largesubgroup of interferon proteins that help regulate the activity of the immunesystem. The IFNb proteins are produced in large quantities by fibroblasts. Theyhave antiviral activity that is involved mainly in innate immune response. Two types of IFNb have been described, IFNb1 (IFNB1) and IFNb3 (IFNB3). IFNb1 isused as a treatment for multiple sclerosis as it reduces the relapse rate. To testthe effect of IFNb on cell apoptosis, A549 cells were seeded into triplicate wellsof 96-well plates at a density of 2,000 cells/well and allowed to attach, replacedwith serum-free overnight, then the medium was replaced with 5% serum standard DMEM prior to the addition of various concentrations of recombinanthuman IFNb. After incubated for 48h, cells were observed by invertedmicroscope and cell proliferation was measured by Cell Counting Kit-8 (CCK-8). Briefly, 10 ul 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 incubatingthe plate for 1-4 hours at 37 degree C. Apoptosis of A549 cells after incubation withIFNb for 48h observed by inverted microscope was shown in Figure1. Cellviability was assessed by CCK-8 (Cell Counting Kit-8) assay after incubation with recombinant IFNb for 48h.
Product Categories/Family for IFNb active protein	Cytokine; Tumor immunity; Infection immunity; Active, prokaryotic recombinant

NCBI AND UNIPROT INFORMATION

NCBI GI #	4504603
NCBI GeneID	3456
NCBI Accession #	NP_002167.1
NCBI GenBank Nucleotide #	NM_002176.2
UniProt Accession #	P01574
Molecular Weight	22,294 Da
NCBI Official Full Name	interferon beta
NCBI Official Synonym Full Names	interferon, beta 1, fibroblast
NCBI Official Symbol	IFNB1
NCBI Official Synonym Symbols	IFB; IFF; IFNB
NCBI Protein Information	interferon beta; IFN-beta; fibroblast interferon
UniProt Protein Name	Interferon beta
UniProt Gene Name	IFNB1
UniProt Synonym Gene Names	IFB; IFNB; IFN-beta

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/e-coli-active-protein/interferon-beta-ifnb/150973>