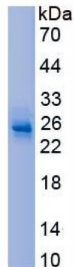
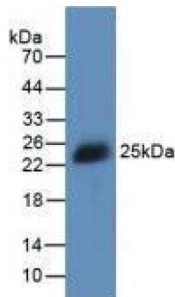


Human Interferon Beta (IFNB1) Protein (Active)

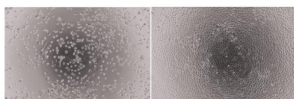
Catalogue No.: abx656234



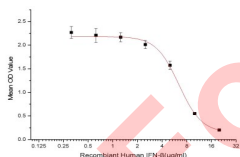
SDS-PAGE analysis of recombinant Human Interferon Beta (IFNB1) Protein.



Western blot analysis of recombinant Human Interferon Beta (IFNB1) Protein, using [abx101325](#) IFNB1 antibody.



A459 cells cultured in DMEM for 48 hours, (left) stimulated with 5 µg/ml IFNB1, and (right) unstimulated.



Cell apoptosis of A459 cells after stimulation with IFNB1.

Human Interferon Beta (IFNB1) Protein (Active) is an Active Recombinant Human protein expressed in E. coli.

Target: Interferon Beta (IFNB1)

Research Area: Tumor Immunity, Infection Immunity

Origin: Human

Datasheet

Version: 3.0.0
Revision date: 26 Jun 2025



Expression: Recombinant

Tested Applications: WB, SDS-PAGE

Host: E. coli

Conjugation: Unconjugated

Form: Lyophilized

Purity: > 80%

Reconstitution: Reconstitute in ddH₂O to a concentration of 0.1-0.5 mg/ml. Do not vortex.

Storage: Store at 2-8 °C for up to one month. Store at -80 °C for up to one year. Avoid repeated freeze/thaw cycles.

UniProt Primary AC: P01574 ([UniProt](#), [ExPASy](#))

Gene Symbol: IFNB1

GeneID: [3456](#)

KEGG: hsa:3456

String: [9606.ENSP00000369581](#)

Molecular Weight: Calculated MW: 23.7 kDa
Observed MW (SDS-PAGE): 25 kDa

Sequence Fragment: Met22-Asn187

Sequence: MSYNLLGFL QRSSNFQCQK LLWQLNGRLE YCLKDRMNFD IP EEIKQLQQ FQKEDAALTI
YEMLQNIFAI FRQDSSSTGW NETIVENLLA NVYHQINHLK TVLEEKLEKE DFTRGKLMSS
LHLKRYYGRI LHYLKAKEYS HCAWTIVRVE ILRNIFYFINR LTGYLRN

Tag: N-terminal His tag

Buffer: Prior to lyophilization: PBS, pH 7.4, containing 0.01% Sarcosyl, 5% Trehalose.

Activity: Active

Biological Activity: A proliferation assay was conducted to detect the bioactivity of recombinant human IFN β using A549 cells. Briefly, A549 cells were seeded into triplicate wells in 96-well plates at a density of 2,000 cells/well and allowed to attach with serum-free medium overnight, then the medium was replaced with 5% serum standard DMEM prior to the addition of various concentrations of IFN β . After incubation for 96 h, cells were observed by inverted microscope (Figure 3) and cell proliferation was measured by Cell Counting Kit-8 (CCK-8) assay (Figure 4). Briefly, 10 μ l of CCK-8 solution was added to each well of the plate, then the absorbance at 450nm was measured using a microplate reader after incubating the plate for 1-4 hours at 37 °C. The ED50 of recombinant human IFN β is 6.4 μ g/ml.

Endotoxin Level: < 1.0 EU per 1 μ g (LAL method)

Concentration: Prior to lyophilization: 100 μ g/ml

Note: THIS PRODUCT IS FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC, THERAPEUTIC OR COSMETIC PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION.

For Reference Only