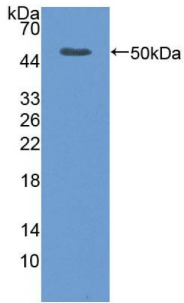
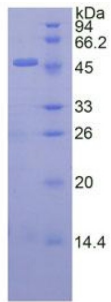


Pig Interferon Beta (IFN β) Protein (Active)

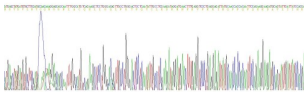
Catalogue No.: abx655692



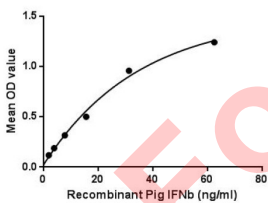
Western blot analysis of recombinant Pig Interferon Beta (IFN β) protein.



SDS-PAGE analysis of Active Pig Interferon Beta (IFN β) protein.



Gene sequencing extract of Pig Interferon Beta (IFN β) protein.



The binding activity of IFN β with IFN α /bR1.

Pig Interferon Beta (IFN β) Protein (Active) is an Active Recombinant Pig protein.

Target: Interferon Beta (IFN β)

Origin: Pig

Expression: Recombinant

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Tested Applications: WB, SDS-PAGE

Host: E. coli

Conjugation: Unconjugated

Form: Lyophilized

Purity: > 98%

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.

Molecular Weight: Calculated MW: 49.62 kDa
Observed MW (SDS-PAGE): 50 kDa

Sequence Fragment: Met22-Asn186

Sequence: MSYDVLRYQ QRSSNLACQK LLGQLPGTPQ YCLEDRMNFE VPPEIMQPPQ FQKEDAVLII
HEMLQQIFGI
LRRNFSSTGW NETVIKTILV ELDGQMDDLE TILEEIMEEE NFPRGDMTIL HLKYYLSIL QYLKSKEY
RS CAWTVVQVEI LRNFSFLNRL TDYLRN

Tag: N-terminal His tag and GST tag

Buffer: Prior to lyophilization: 20 mM Tris, 150 mM NaCl, pH 8.0, containing 0.01% Sarcosyl and 5% Trehalose.

Activity: Active

Biological Activity: Interferon Beta (IFN β) is a member of type I interferons (IFNs) family which is a large subgroup of interferon proteins that help regulate the activity of the immune system. The IFN β proteins are produced in large quantities by fibroblasts. They have antiviral activity that is involved mainly in innate immune response. Two types of IFN β have been described, IFN β 1 (IFNB1) and IFN β 3 (IFNB3). IFN β 1 is used as a treatment for multiple sclerosis as it reduces the relapse rate. Besides, Interferon Alpha/Beta Receptor 1 (IFN α /bR1) has been identified as an interactor of IFN β , thus a binding ELISA assay was conducted to detect the interaction of recombinant Pig IFN β and recombinant Pig IFN α /bR1. Briefly, IFN β were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 μ l were then transferred to IFN α /bR1-coated microtiter wells and incubated for 2 h at 37 °C. Wells were washed with PBST and incubated for 1 h with anti-IFN β polyclonal antibody, then aspirated and washed 3 times. After incubation with HRP-conjugated secondary antibody, wells were aspirated and washed 3 times. TMB substrate solution was added and wells were incubated for 15-25 min at 37 °C. Finally, 50 μ l stop solution was added to the wells and the absorbance was read at 450 nm immediately. The binding activity of IFN β and IFN α /bR1 is shown in Figure 4.

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

Datasheet

Version: 3.0.0

Revision date: 03 Dec 2024



Concentration: Prior to lyophilization: 50 µg/ml

Note: This product is for research use only.
Not for human consumption, cosmetic, therapeutic or diagnostic use.

For Reference Only