

Active Recombinant Rat Ifna5 protein, His-tagged

Cat. No. Ifna5-1651R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Rat Ifna5 protein(P05011)(24~192 aa), fused with N-terminal His tag, was expressed in E.coli.
Species	Rat
Source	E.coli
ProteinLength	24-192 aa
Form	Lyophilized from sterile 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Bio-activity	Interferon Alpha (IFNa) belongs to a large subgroup of interferon proteins that help regulate the activity of the immune system. The IFNa proteins are produced by leukocytes. They are mainly involved in innate immune response against viral infection. It is also made synthetically as medication in hairy cell leukemia. Besides, Interferon Alpha/Beta Receptor 1 (IFNa/bR1) has been identified as an interactor of IFNa, thus a binding ELISA assay was conducted to detect the interaction of recombinant rat IFNa and recombinant rat IFNa/bR1. Briefly, IFNa were diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100uL were then transferred to IFNa/bR1-coated microtiter wells and incubated for 2h at 37°C. Wells were washed with PBST and incubated for 1h with anti-IFNa pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody, wells were aspirated and washed 3 times. With the addition of substrate solution, wells were

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incubated 15-25 minutes at 37°C. Finally, add 50μ stop solution to the wells and read at 450nm immediately. The binding activity of IFNa and IFNa/bR1 was shown, and this effect was in a dose dependent manner.

Molecular Mass 23.1kDa

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 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0mg/mL. Do not vortex.

GENE INFORMATION

Gene Name [Ifna5](#) *interferon alpha family, gene 5 [Rattus norvegicus]*

Official Symbol [Ifna5](#)

Synonyms IFNA5; interferon alpha family, gene 5;

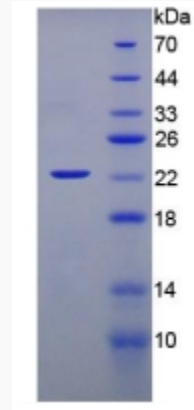
Gene ID [690894](#)

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SDS-PAGE



Activity

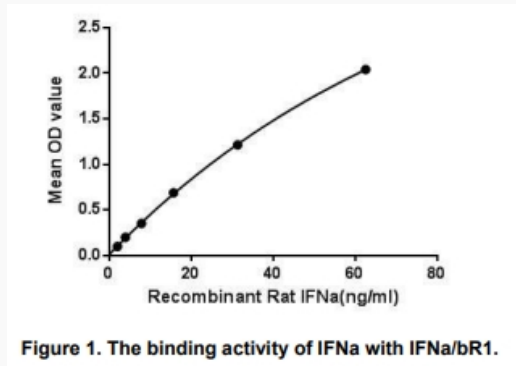


Figure 1. The binding activity of IFNα with IFNα/BR1.

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