Active Recombinant Pig IFNG protein, His-tagged

Cat. No. IFNG-805P **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Pig IFNG protein(P17803)(21~166 aa), fused with N-terminal His tag, was expressed in E.coli.
Species	Pig
Source	E.coli
ProteinLength	21-166 aa
Form	Lyophilized from sterile PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Bio-activity	IFN-g is a dimerized soluble cytokine that is the only member of the type II class of interferons. The importance of IFNg in the immune system stems in part from its ability to inhibit viral replication directly and most importantly from its immunostimulatory and immunomodulatory effects. Studies show that IFN-gamma can rapidly regulate STAT activation by IL-10 and alters macrophage responses to IL-10. Thus a functional binding ELISA assay was conducted to detect the interaction of recombinant pig IFN-g and recombinant pig IL-10. Briefly, IFN-g was diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100 µl were then transferred to IL-10-coated microtiter wells and incubated for 1h at 37°C. Wells were washed with PBST and incubated for 1h with anti-IFN-g pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody for 1h at 37°C, wells were aspirated and washed 5 times. With the addition of substrate solution, wells were

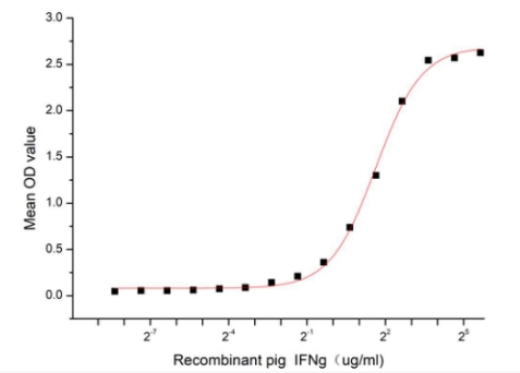
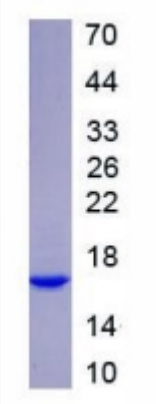
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	incubated 15-25 minutes at 37°C. Finally, add 50 µ stop solution to the wells and read at 450/630 nm immediately. The binding activity of recombinant pig IFN-g and recombinant pig IL-10 was shown, the EC50 for this effect is 3.1 ug/mL.
Molecular Mass	17.3kDa
Endotoxin	<1.0EU per 1µg (determined by the LAL method).
Purity	> 90% 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	IFNG interferon-gamma [Sus scrofa]
Official Symbol	IFNG
Synonyms	IFNG; interferon-gamma; interferon gamma; IFN-gamma;
Gene ID	396991
mRNA Refseq	NM_213948
Protein Refseq	NP_999113

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Activity	
SDS-PAGE	

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