

Interferon Gamma (IFNg) Active Protein | IFNg active protein

Active Interferon Gamma (IFNg)

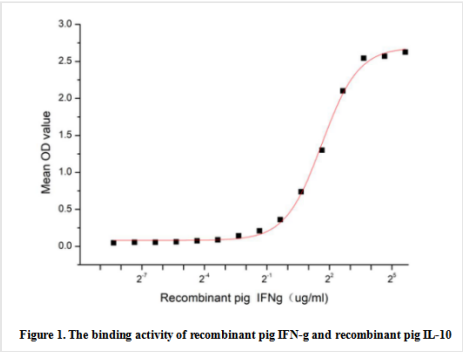
CATALOG # AAA161669	HOST E Coli	APPLICATIONS Activity Assay, Cell Culture
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PRODUCT SYNONYMS

Interferon Gamma (IFNg); Active Interferon Gamma (IFNg); Interferon Gamma; IFN-G; IFG; IFI; INFr; IFN; Immune Interferon4; IFNg active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 90% by SDS-PAGE
Form/Format	Freeze-dried powder; PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Sequence	Ser21~Lys1 66
Applicable Applications for IFNg active protein	Activity Assay, Cell Culture
Species	Pig
Expression System	Prokaryotic expression
Tag	N-terminal His Tag
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method)
Isoelectric Point	9.7
Research Area	Cytokine, Infection immunity
Preparation and Storage	Store at 2-8 degree C for one month, -80 degree C for 12 months

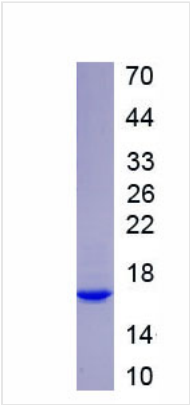


Bioactivity

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 ul were then transferred to IL-10-coated microtiter wells and incubated for 1h at 37 degree 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 degree C, wells were aspirated and washed 5 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37 degree C. Finally, add 50 uL 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 in Figure 1, the EC50 for this effect is 3.1 ug/mL.

SDS-PAGE

Figure. SDS-PAGE



ADDITIONAL INFORMATION

Product Categories/Family for IFNg active protein	Active proteins
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NCBI AND UNIPROT INFORMATION

NCBI GI #	47522726
NCBI GeneID	396991
NCBI Accession #	NP_999113.1
NCBI GenBank Nucleotide #	NM_213948.1
UniProt Accession #	P17803; Q53ZP3
Molecular Weight	19,419 Da
NCBI Official Full Name	interferon gamma
NCBI Official Symbol	IFNG
NCBI Protein Information	interferon gamma; IFN-gamma; interferon-gamma
UniProt Protein Name	Interferon gamma
UniProt Gene Name	IFNG
UniProt Synonym Gene Names	IFN-gamma
UniProt Entry Name	IFNG_PIG

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.

