

Interferon Gamma (IFNg) Active Protein | IFNg active protein

Active Interferon Gamma (IFNg)

CATALOG # AAA146601	HOST E Coli	APPLICATIONS Activity Assay, Cell Culture
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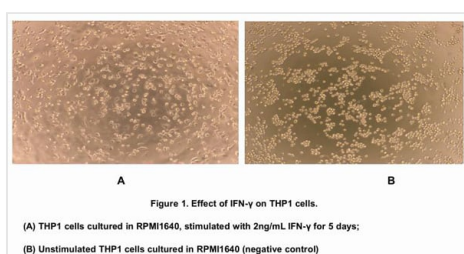
PRODUCT SYNONYMS

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

PRODUCT SPECIFICATIONS

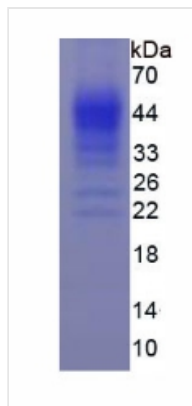
Host	E Coli
Purity/Purification	> 95%
Form/Format	Freeze-dried powder
Sequence Length	166
Applicable Applications for IFNg active protein	Activity Assay, Cell Culture
Fragment	Gln24~Gln166
Tag	N-terminal His Tag
Buffer Formulation	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Organism Species	Human
Isoelectric Point	9.7
Usage	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
Preparation and Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

IMAGES

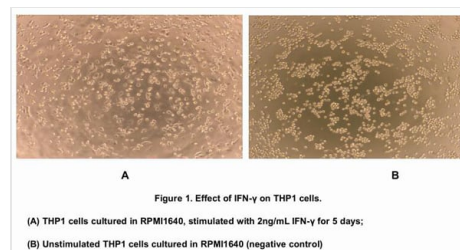


Application Data

Application Data



SDS-PAGE



Activity

IFN-gamma is a dimerized soluble cytokine that is the only member of the type II class of interferons. The importance of IFNgamma in the immune system stems in part from its ability to inhibit viral replication directly, and most importantly from its immunostimulatory and immunomodulatory effects. As reported, IFNgamma is an important activator of human monocytic THP1 cells. Therefore, THP-1 cells were incubated in RPMI 1640 with various concentrations of IFN-gamma, then cells were observed by inverted microscope everyday. After stimulated with IFN-gamma (5ng/ml) for 5 days, morphological changes occurred in THP1 cells which displayed the shape of fusiform or polygon and were more likely to adhere. Effect of IFN-gamma on THP1 cells is shown in Figure 1.

ADDITIONAL INFORMATION

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

NCBI GI #	56786138
NCBI GeneID	3458
NCBI Accession #	NP_000610.2
NCBI GenBank Nucleotide #	NM_000619.2
UniProt Accession #	P01579; Q53ZV4; B5BU88
Molecular Weight	18.4kDa; 22&25kDa
NCBI Official Full Name	interferon gamma
NCBI Official Synonym Full Names	interferon gamma
NCBI Official Symbol	IFNG
NCBI Official Synonym Symbols	IFG; IFI
NCBI Protein Information	interferon gamma
UniProt Protein Name	Interferon gamma
UniProt Gene Name	IFNG
UniProt Synonym Gene Names	IFN-gamma

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.

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 Online datasheet: <https://stage.aaabiotech.com/e-coli-active-protein/interferon-gamma-ifng/146601>