

Datasheet for ABIN6239726

**Interferon gamma Protein (IFNG) (AA 24-166) (His tag)**[Go to Product page](#)**2** Images

## Overview

Quantity:	50 µg
Target:	Interferon gamma (IFNG)
Protein Characteristics:	AA 24-166
Origin:	Human
Source:	HEK-293 Cells
Biological Activity:	Active
Purification tag / Conjugate:	This Interferon gamma protein is labelled with His tag.
Application:	Activity Assay (AcA), Cell Culture (CC)

## Product Details

Characteristics:	Tag location: N-terminal His Tag
Purity:	> 95 %
Biological Activity Comment:	IFN-γ is a dimerized soluble cytokine that is the only member of the type II class of interferons. The importance of IFN $\gamma$ 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, IFN $\gamma$ is an important activator of human monocytic THP1 cells. Therefore, THP-1 cells were incubated in RPMI 1640 with various concentration of IFN- $\gamma$ , then cells were observed by inverted microscope everyday. After stimulated with IFN- $\gamma$ (5 ng/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.

## Target Details

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Target:	Interferon gamma (IFNG)
Abstract:	<a href="#">IFNG Products</a>
Background:	Alternative Names: IFN-G, IFG, IFI, INFr, IFN, Immune Interferon
Molecular Weight:	22&25kDa
UniProt:	<a href="#">P01579</a>
Pathways:	<a href="#">Interferon-gamma Pathway</a> , <a href="#">Cellular Response to Molecule of Bacterial Origin</a> , <a href="#">Regulation of Leukocyte Mediated Immunity</a> , <a href="#">Positive Regulation of Immune Effector Process</a> , <a href="#">Production of Molecular Mediator of Immune Response</a> , <a href="#">ER-Nucleus Signaling</a> , <a href="#">Regulation of Carbohydrate Metabolic Process</a> , <a href="#">Protein targeting to Nucleus</a> , <a href="#">Autophagy</a>

## Application Details

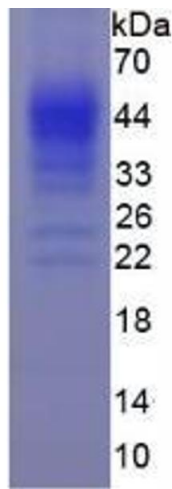
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Application Notes:	Isoelectric Point: 9.7
Restrictions:	For Research Use only

## Handling

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Format:	Lyophilized
Buffer:	20 mM Tris, 150 mM NaCl, pH 8.0, containing 1 mM EDTA, 1 mM DTT, 0.01 % SKL, 5 % Trehalose and Proclin300.
Preservative:	Dithiothreitol (DTT), Other preservative, ProClin
Precaution of Use:	This product contains ProClin and Dithiothreitol (DTT): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.



**Image 1.**



A

B

**Figure 1. Effect of IFN- $\gamma$  on THP1 cells.**

(A) THP1 cells cultured in RPMI1640, stimulated with 2ng/mL IFN- $\gamma$  for 5 days;

(B) Unstimulated THP1 cells cultured in RPMI1640 (negative control)

**Image 2.** IFN- $\gamma$  is a dimerized soluble cytokine that is the only member of the type II class of interferons. The importance of IFN $\gamma$  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, IFN $\gamma$  is an important activator of human monocytic THP1 cells. Therefore, THP-1 cells were incubated in RPMI 1640 with various concentration of IFN- $\gamma$ , then cells were observed by inverted microscope everyday. After stimulated with IFN- $\gamma$  (5 ng/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.