

## Human Interferon gamma protein, His tag (active)

Cat. No. GTX00083-pro

**Application** Functional Assay**Species** Human**Package**

10 µg

## APPLICATION

## Application Note

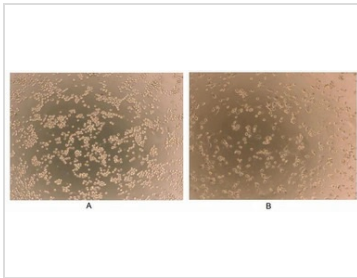
IFN- $\gamma$  is a dimerized soluble cytokine that is the only member of the type II class of interferons. The importance of IFN $\gamma$  in the immune system stems in part from its ability to inhibit viral replication directly, and most importantly from its immunostimulatory and immunomodulatory effects. As reported, IFN $\gamma$  is an important activator of human monocytic THP-1 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- $\gamma$  (2 ng/ml) for 5 days, morphological changes occurred in THP-1 cells which displayed the shape of fusiform or polygon and were more likely to adhere.

**Observed MW** 16 kDa.

## PROPERTIES

**Form** Lyophilized powder**Buffer** Reconstitute with 20mM Tris and 150mM NaCl to 0.1-1.0mg/ml. Do not vortex. Lyophilized from 20mM Tris, 150mM NaCl, 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose.**Preservative** ProClin 300**Storage** For short-term storage (1-2 weeks), store at 4°C. For long-term storage, store at -20°C or below. After reconstitution, keep as concentrated solution. Avoid freeze-thaw cycles.**Region/Sequence** N-terminal His-Tag; Gln24~Gln166 (NP\_000610.2)**Expression System** E. coli**Purity** > 95%**Endotoxin** < 1 EU/µg**Conjugation** Unconjugated**Note** For laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.

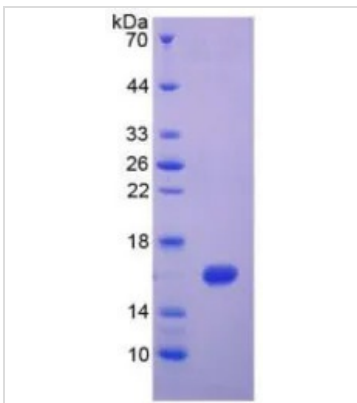
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**DATA IMAGES**

**GTX00083-pro Functional Assay Image**

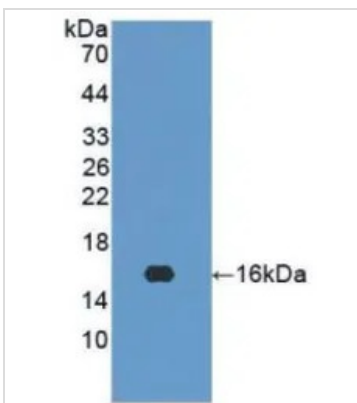
Activation effect of GTX00083-pro Human Interferon gamma protein (active).

(A) Unstimulated THP-1 cells cultured in RPMI-1640.

(B) THP-1 cells cultured in RPMI-1640, stimulated with 2 ng/ml IFN gamma for 5 days.


**GTX00083-pro Image**

SDS-PAGE analysis of GTX00083-pro Human Interferon gamma protein (active).


**GTX00083-pro Image**

WB analysis of GTX00083-pro Human Interferon gamma protein (active).



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