

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

## Cat. No. GTx00083-pro

Applications	Functional Assay	Package
Species	Human	10 µg

## Applications

## 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 (kDa)	16 kDa.
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## Properties

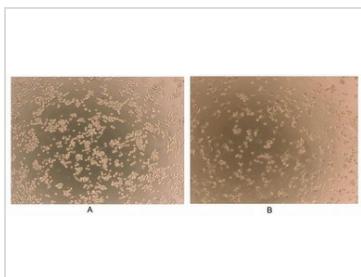
Form	Lyophilized powder
Buffer	Reconstitute with 20mM Tris and 150mM NaCl to 0.1-1.0mg/ml. Do not vortex. Lyophilized from 20mM Tris, 150mM NaCl, 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose.
Preservative	ProClin 300
Storage	For short-term storage (1-2 weeks), store at 4°C. For long-term storage, store 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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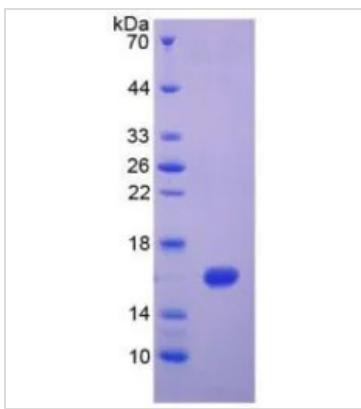
## DATA IMAGES

**GTx00083-pro Functional Assay Image**

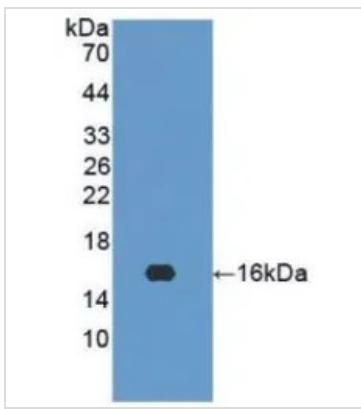
Activation effect of GTx00083-pro Human Interferon gamma protein (active).

(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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