

Human Interferon gamma protein, His tag (active)

Cat. No. GTX00084-pro

Applications	Functional Assay	Package
Species	Human	10 µg

Applications

Application Note

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

Properties

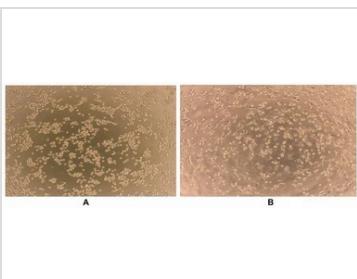
Form	Lyophilized powder
Buffer	Reconstitute with 20mM Tris and 150mM NaCl to 0.1-1.0mg/ml. Do not vortex. Lyophilized from 20mM Tris, 150mM NaCl, 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose.
Preservative	ProClin 300
Storage	For short-term storage (1-2 weeks), store at 4°C. For long-term storage, store 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	HEK293 cells
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

**GTx00084-pro Functional Assay Image**

Activation effect of GTx00084-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.

GTx00084-pro Functional Assay Image	
Sample (cell lysates of Raw 246.7 cells)	Concentration of iNOS (ng/mL)
Unstimulated	2.71
Stimulated with IFNg (2ng/mL)	8.62

**GTx00084-pro Functional Assay Image**

Activation effect of GTx00084-pro Human Interferon gamma protein (active).

(A) Unstimulated Raw 246.7 cells cultured in DMEM (negative control).

(B) Raw 246.7 cells cultured in DMEM, stimulated with IFNg.



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