

Rat Interferon gamma protein, His tag (active)

Cat. No. GTX00340-pro

Applications	Functional Assay	Package 10 μg
Species	Rat	13

Applications

Application Note

Interferon gamma (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. It has been reported that IFN- γ promotes production of inducible Nitric Oxide Synthase (iNOS) in macrophages as an important activator. After stimulated with IFN- γ , morphological changes will occur in murine macrophage cell line (Raw 264. 7 cells), and inducible nitric-oxide synthase (iNOS) in the cells will increase. Raw 264. 7 cells were incubated in DMEM with IFN- γ (10 ng/ml) for 24h, then cells were observed by inverted microscope.

Observed MW (kDa) 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; Gln23~Cys156 (NP_620235.1)	
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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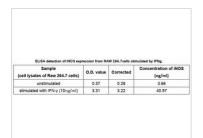
DATA IMAGES



GTX00340-pro Functional Assay Image

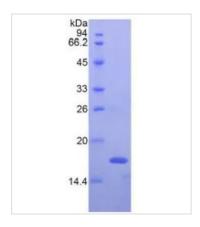
Activation effect of GTX00340-pro Rat Interferon gamma protein (active).

- (A) Unstimulated Raw 264.7 cells cultured in DMEM.
- (B) Raw 264.7 cells cultured in DMEM, stimulated with IFN gamma.



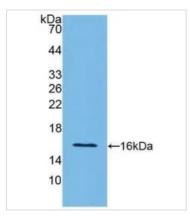
GTX00340-pro Functional Assay Image

ELISA detection of secreted iNOS expression from RAW 264.7 cells stimulated by GTX00340-pro Rat Interferon gamma protein (active) at 10 ng/ml for 24hrs.



GTX00340-pro Image

SDS-PAGE analysis of GTX00340-pro Rat Interferon gamma protein (active).



GTX00340-pro Image

WB analysis of GTX00340-pro Rat Interferon gamma protein (active).



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