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APA049Hu61 100µg Active Interferon Gamma (IFNg) Organism Species: Homo sapiens (Human) *Instruction manual*

FOR IN VITRO USE AND RESEARCH USE ONLY NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

1th Edition (Apr, 2016)

[PROPERTIES]

Source: Eukaryotic expression. Host: 293F cell Residues: Gln24~Gln166 Tags: N-terminal His-tag Purity: >95% Endotoxin Level: <1.0EU per 1µg (determined by the LAL method).

Buffer Formulation: 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5% trehalose, and Proclin300.

Predicted isoelectric point: 9.7

Predicted Molecular Mass: 18.4kDa

Accurate Molecular Mass: 22&25kDa as determined by SDS-PAGE reducing conditions.

Applications: Cell culture; Activity Assays; In vivo assays.

(May be suitable for use in other assays to be determined by the end user.)

[<u>USAGE</u>]

Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

[STORAGE AND STABILITY]

Storage: Avoid repeated freeze/thaw cycles.

Store at 2-8°C for one month.

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Aliquot and store at -80°C for 12 months.

Stability Test: The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

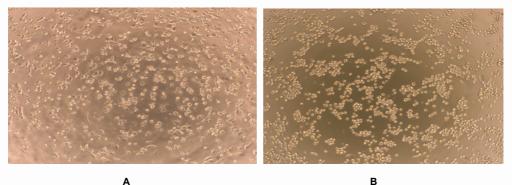
[<u>SEQUENCE</u>]

QDPYVKE AENLKKYFNA GHSDVADNGT LFLGILKNWK EESDRKIMQS QIVSFYFKLF KNFKDDQSIQ KSVETIKEDM NVKFFNSNKK KRDDFEKLTN YSVTDLNVQR KAIHELIQVM AELSPAAKTG KRKRSQMLFR GRRASQ

[ACTIVITY]

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 THP1 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 (5ng/ml) for 5 days, morphological changes occured in THP1 cells which displayed the shape of fusiform or polygon and were more likely to adhere.

Effect of IFN- γ on THP1 cells is shown in Figure 1.





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- (A) THP1 cells cultured in RPMI1640, stimulated with 2ng/mL IFN- γ for 5 days;
- (B) Unstimulated THP1 cells cultured in RPMI1640 (negative control)

[IDENTIFICATION]

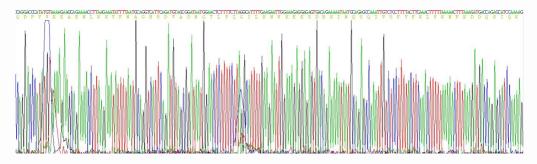


Figure 2. Gene Sequencing (extract)

-	kDa 70
	44
-	33
	26
-	22
	18
	14
	10

Figure 3. SDS-PAGE

Sample: Active recombinant IFNg, Human

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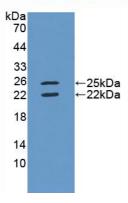


Figure 4. Western Blot

Sample: Recombinant IFNg, Human;

Antibody:Rabbit Anti-Human IFNg Ab (PAA049Hu06)

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