

## Active Recombinant Human IFNG protein, His-tagged

Cat. No. IFNG-480H    Lot. No. (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Active Recombinant Human IFNG protein(P01579)(24~166 aa), fused with N-terminal His tag, was expressed in HEK293.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>ProteinLength</b>    | 24-166 aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Form</b>             | Lyophilized from sterile PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Bio-activity</b>     | <p>IFN-g is a dimerized soluble cytokine that is the only member of the type II class of interferons. The importance of IFNg in the immune system stems in part from its ability to inhibit viral replication directly and most importantly from its immunostimulatory and immunomodulatory effects. The activity of recombinant human IFN-g measured by inhibit HIV-1-GFP lentiviral infection HUVEC cells. HUVEC cells were seeded into triplicate wells of 96-well plates at a density of 4,000 cells/well with 10% serum standard DMEM, after the cells adhesion, replace the medium with various concentrations of recombinant human IFN-g, incubate overnight at 37°C. Then suction out the DMEM medium, add lentiviral particles 100 µl to each well, incubate 24h at 37°C, change fresh 10% serum standard DMEM to the well, continuing incubate at 37°C for 96h. The results observed by inverted microscope was shown. The ED50 for this effect is 0.01 ug/ml.</p> |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                       |                                                                                                            |
|-----------------------|------------------------------------------------------------------------------------------------------------|
| <b>Molecular Mass</b> | 18.4kDa                                                                                                    |
| <b>Endotoxin</b>      | <1.0EU per 1µg (determined by the LAL method).                                                             |
| <b>Purity</b>         | > 95% as determined by SDS-PAGE.                                                                           |
| <b>Storage</b>        | Avoid repeated freeze/thaw cycles. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months. |
| <b>Reconstitution</b> | Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.                       |

## GENE INFORMATION

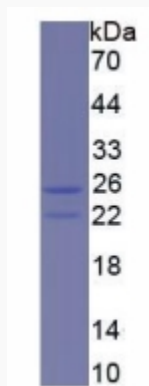
|                        |                                                                                    |
|------------------------|------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | IFNG interferon, gamma [ Homo sapiens ]                                            |
| <b>Official Symbol</b> | IFNG                                                                               |
| <b>Synonyms</b>        | IFNG; interferon, gamma; interferon gamma; IFN-gamma; immune interferon; IFG; IFI; |
| <b>Gene ID</b>         | 3458                                                                               |
| <b>mRNA Refseq</b>     | NM_000619                                                                          |
| <b>Protein Refseq</b>  | NP_000610                                                                          |
| <b>MIM</b>             | 147570                                                                             |
| <b>UniProt ID</b>      | P01579                                                                             |

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## SDS-PAGE



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