

## Recombinant Human Interferon $\gamma$ /IFNG Protein

Catalog No. PDMH100010

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

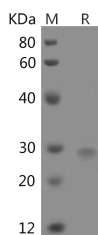
### Description

|                                    |                                                   |
|------------------------------------|---------------------------------------------------|
| <b>Synonyms</b>                    | Interferon Gamma;IFN-Gamma;Immune Interferon;IFNG |
| <b>Species</b>                     | Human                                             |
| <b>Expression Host</b>             | HEK293 Cells                                      |
| <b>Sequence</b>                    | Gln24-Gln166                                      |
| <b>Accession</b>                   | P01579                                            |
| <b>Calculated Molecular Weight</b> | 16.8 kDa                                          |
| <b>Observed molecular weight</b>   | 16&20-25 kDa                                      |
| <b>Tag</b>                         | None                                              |
| <b>Bioactivity</b>                 | Not validated for activity                        |

### Properties

|                       |                                                                                                                                                                                                                                                                 |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>         | > 90 % as determined by reducing SDS-PAGE.                                                                                                                                                                                                                      |
| <b>Endotoxin</b>      | < 1.0 EU per $\mu$ g of the protein as determined by the LAL method.                                                                                                                                                                                            |
| <b>Storage</b>        | Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.                           |
| <b>Shipping</b>       | This product is provided as lyophilized powder which is shipped with ice packs.                                                                                                                                                                                 |
| <b>Formulation</b>    | Lyophilized from a 0.2 $\mu$ m filtered solution of 20mM PB, 150mM NaCl, pH 7.4. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual. |
| <b>Reconstitution</b> | It is recommended that sterile water be added to the vial to prepare a stock solution of 0.5 mg/mL. Concentration is measured by UV-Vis                                                                                                                         |

### Data



> 90 % as determined by reducing SDS-PAGE.

### Background

IFN $\gamma$  is the major interferon produced by mitogenically or antigenically stimulated lymphocytes. It is structurally

### For Research Use Only

different from type I interferon and its major activity is immunoregulation. It has been implicated in the expression of class II histocompatibility antigens in cells that do not normally produce them; leading to autoimmune disease. Interferon gamma is produced mainly by T-cells and natural killer cells activated by antigens; mitogens; or alloantigens. It is produced by lymphocytes expressing the surface antigens CD4 and CD8. IFN $\gamma$  synthesis is induced by IL-2; FGF-basic; and EGF.