

## Human IFN-g ELISA Kit | IFN-g elisa kit

Human IFN-g ELISA KIT

CATALOG #  
**AAA29738**

REACTIVITY  
**Human**

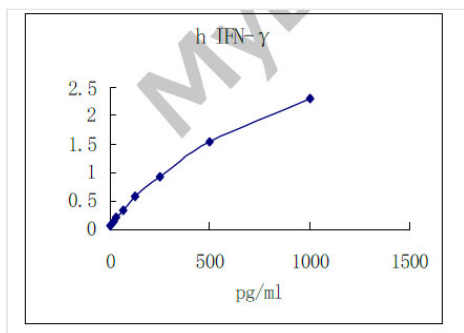
### PRODUCT SYNONYMS

IFN-g; Human IFN-g ELISA KIT; IFN-g elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                      |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Human                                                                                                                                                                                                                                                |
| Specificity             | This assay recognizes both natural and recombinant human IFN-gamma. The factors listed below were prepared at 50ng/ml in Standard /sample Diluent and assayed for cross-reactivity and no significant cross-reactivity or interference was observed. |
| Assay Type              | Quantitative Sandwich                                                                                                                                                                                                                                |
| Samples                 | Cell culture supernates, serum, and plasma                                                                                                                                                                                                           |
| Sensitivity             | 7pg/mL                                                                                                                                                                                                                                               |
| Preparation and Storage | Store at 4 degree C                                                                                                                                                                                                                                  |

### IMAGES



Standard Curve (Sample)

## ADDITIONAL INFORMATION

### Related Product Information for IFN-g elisa kit

Background: Interferon gamma (IFN-gamma) is a multifunctional protein first observed as an antiviral activity in cultures of Sindbis virus-infected human leukocytes stimulated by PHA. Produced by Tlymphocytes and natural killer (NK) cells, IFN-gamma is now known to be both an inhibitor of viral replication and a regulator of numerous immunological functions. Human IFN-gamma is reported to be active only on human and non-human primate cells. The biochemistry and biological activities of the interferons have been extensively reviewed. Human IFN-gamma is a 143 amino acid residue, 20 or 25 kDa glycoprotein that demonstrates little sequence homology to IFN-alpha or -beta. Naturally occurring IFN-gamma is found as either of two molecular weight species, differing in degree of glycosylation. Human IFN-gamma apparently exists as a head-to-tail dimer in solution with the C-terminus of one monomer aligned with the N-terminus of the other monomer A receptor for IFN-gamma has been identified and its gene localized to chromosome 6 Apparently the product of a single gene, the receptor is a single chain 90 kDa glycoprotein that shows a high degree of species-specific binding of IFN-gamma. Functionally, IFN-gamma produces a variety of effects. Produced by CD8+, NK, gd, and TH1 T helper cells, IFN-gamma has documented antiviral, antiprotozoal and immunomodulatory effects on cell proliferation and apoptosis, as well as the stimulation and repression of a variety of genes he antiprotozoal activity of IFN-gamma against Toxoplasma and Chlamydia is believed to result from indoleamine 2,3-dioxygenase activity, an enzyme induced by IFN-gamma. The immunomodulatory effects of IFN-gamma are extensive and diverse. In monocyte/macrophages, the activities of IFN-gamma include: increasing the expression of class I and II MHC antigens; increasing the production of IL-1, plateletactivating factor, H2O2, and pterin; protection of monocytes against LAK cell-mediated lysis; downregulation of IL-8 mRNA expression that is upregulated by IL-2; and, with lipopolysaccharide, induction of NO production. Finally, IFN- gamma has been shown to upregulate ICAM-1, but not E-Selectin or VCAM-1, expression on endothelial cells.

Principle of the Assay: This assay employs the quantitative sandwich enzyme immunoassay technique. A monoclonal antibody specific for IFN-gamma has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any IFN-gamma present is bound by the immobilized antibody. Following incubation unbound samples are removed during a wash step, and then a detection antibody specific for IFN-gamma is added to the wells and binds to the combination of capture antibody- IFN-gamma in sample. Following a wash to remove any unbound combination, and enzyme conjugate is added to the wells. Following incubation and wash steps a substrate is added. A coloured product is formed in proportion to the amount of IFN-gamma present in the sample. The reaction is terminated by addition of acid and absorbance is measured at 450nm. A standard curve is prepared from seven IFN-gamma standard dilutions and IFN-gamma sample concentration determined.

## NCBI AND UNIPROT INFORMATION

|                         |                  |
|-------------------------|------------------|
| NCBI GI #               | 83416599         |
| NCBI Official Full Name | interferon gamma |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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