

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

Human IFN-g ELISA KIT

CATALOG #
AAA29738

REACTIVITY
Human

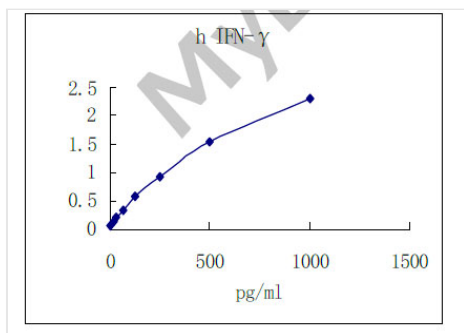
PRODUCT SYNONYMS

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, antiprotzoal and immunomodulatory effects on cell proliferation and apoptosis, as well as the stimulation and repression of a variety of genes. The antiprotzoal 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, platelet activating 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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Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/ifn-g/29738>