

Human Interferon Gamma/IFN gamma/IFNG ELISA Kit | IFNgamma/IFNG elisa kit

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CATALOG #
AAA258432

REACTIVITY
Human

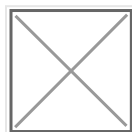
PRODUCT SYNONYMS

Interferon Gamma/IFN gamma/IFNG; Human Interferon Gamma/IFN gamma/IFNG ELISA Kit; Interferon Gamma ELISA Kit; Human; interferon; gamma; IFG ELISA Kit; IFI ELISA Kit; IFN gamma ELISA Kit; IFNgamma/IFNG elisa kit

PRODUCT SPECIFICATIONS

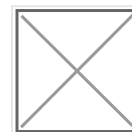
Reactivity	Human
Specificity	For the quantitative determination of Human Interferon Gamma/IFN gamma/IFNG concentration in cell culture supernates.
Assay Type	Solid Phase Sandwich ELISA (quantitative)
Sample Types	Cell supernatant
Detection Range	23.44-1500pg/mL
Sensitivity	3.66pg/mL
Conjugation	HRP
Interference	Preparations of the factors listed below at 50ng/mL in a mid-range recombinant human gamma-IFN control were assayed for interference. No significant interference was observed.
Materials Provided	1. 96 well microplate coated with Capture Antibody 2. Detection Antibody conjugated to HRP 3. Standards 4. Wash Buffer Concentrate 5. Dilution Buffer Concentrate 6. Color Reagent A 7. Color Reagent B 8. Stop Solution

IMAGES



Standard Curve (Sample)

This standard curve is only for demonstration purposes. A standard curve should be generated for each assay.



Application Data

This assay recognizes both recombinant and natural Human gamma-IFN. The factors listed below were prepared at 50ng/mL in dilution buffer and assayed for cross-reactivity. No cross-reactivity was observed.

ADDITIONAL INFORMATION

Related Product Information for IFNgamma/IFNG elisa kit	This Interferon Gamma ELISA Kit, Human is an enzyme-linked immunosorbent assay for the quantitative measurement of Human Interferon Gamma protein in Cell supernatant. It contains recombinant Human Interferon Gamma, and antibodies raised against the recombinant protein. This ELISA kit is complete and ready-to-use. Background: IFN gamma, also known as IFNG, is a secreted protein that belongs to the type II interferon family. IFN gamma is produced predominantly by natural killer and natural killer T cells as part of the innate immune response, and by CD4 and CD8 cytotoxic T lymphocyte effector T cells once antigen-specific immunity develops. IFN gamma has antiviral, immunoregulatory, and anti-tumor properties. IFNG, in addition to having antiviral activity, has important immunoregulatory functions, it is a potent activator of macrophages and has antiproliferative effects on transformed cells and it can potentiate the antiviral and antitumor effects of the type I interferons. The IFNG monomer consists of a core of six alpha-helices and an extended unfolded sequence in the C-terminal region. IFN gamma is critical for innate and adaptive immunity against viral and intracellular bacterial infections and tumor control. Aberrant IFN gamma expression is associated with some autoinflammatory and autoimmune diseases. The importance of IFN gamma in the immune system stems in part from its ability to inhibit viral replication directly, and most importantly from its immunostimulatory and immunomodulatory effects. IFNG also promotes NK cell activity.
References	Gray P W, et al. (1982) Structure of the human immune interferon gene. Nature. 298: 859-63. Taya Y, et al. (1982) Cloning and structure of the human immune interferon-gamma chromosomal gene. EMBO J. 1: 953-8. Goshima N, et al. (2008) Human protein factory for converting the transcriptome into an in vitro-expressed proteome. Nomura N Nat Methods. 5: 1011-7. Thiel DJ, et al. (2000) Observation of an unexpected third receptor molecule in the crystal structure of human interferon-gamma receptor complex. Structure. 8 (9): 927-36. Naylor SL, et al. (1983) Human immune interferon gene is located on chromosome 12. J Exp Med. 157 (3): 1020-7. Schoenborn JR, et al. (2007) Regulation of interferon-gamma during innate and adaptive immune responses. Adv Immunol. 96: 41-101.

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/ifngamma-ifng-human-elisa-kits/interferon-gamma-ifn-gamma-ifng/258432>