

DIACLONE IMMUNOLOGY PRODUCTS

HUMAN IFN- γ ELISA KIT

(CE certified product)

Diacclone ELISA (Enzyme Linked Immuno-Sorbent Assays) are highly sensitive assays designed for the *in-vitro* quantitative and qualitative determination of cytokines, CD antigens, apoptosis markers and other analytes from human serum, plasma and cell culture supernatant.

Different populations of T-cells secrete differing patterns of cytokines that ultimately lead to different immune responses. IFN- γ production is a key function of Th1, CD8+ CTLs and also NK cells. It is a cytokine critical for cell mediated immunity against viral and intracellular bacterial infections and is involved in the inflammatory response following secretion via macrophage activation and stimulation of Ig secretion. IFN- γ is the hallmark effector cytokine of Th1 and therefore is an excellent marker for identifying a host response to intracellular pathogens.

SPECIFICATION

| | |
|------------------------------|---|
| Catalogue Number | 1x96 wells 950.000.096 2x96 wells 950.000.192 |
| Specificity | Recognizes both natural and recombinant human IFN- γ |
| Range | 12.5pg/ml – 400pg/ml |
| Sensitivity | <5pg/ml |
| Incubation Time | 170 min |
| Sample Types | Serum, Plasma, Cell culture supernatant |
| Sample Size | 100 μ l |
| Cross Reactivity | No cross reactivity with other human cytokines tested Cross reactivity with simian IFN- γ |
| Intra-assay CV | 4.9% |
| Inter-assay CV | 10% |
| Mean 'spike' recovery | 94% |

RELATED PRODUCTS

| Product | Format | Catalogue Number |
|--|------------|------------------|
| Human IFN- γ High Sensitivity ELISA Kit | 1x96 well | 850.900.096 |
| | 2x96 well | 850.900.192 |
| Human IFN- γ ELI-Pair | 5x96 well | 851.560.005 |
| | 10x96 well | 851.560.010 |
| | 15x96 well | 851.560.015 |
| | 20x96 well | 851.560.020 |

INTENDED USE

IFN- γ is known to play a significant role in the immune response to infection, autoimmunity, transplant rejection, allergy and diabetes.

Utilising solid phase sandwich immuno-enzyme technology and high affinity antibodies Diacclone IFN- γ ELISA can be used to provide an important tool for the quantitative and qualitative analysis of IFN- γ in a number of significant diseases and infections.

HIGH PERFORMANCE

- Fast procedure with under 180 mins incubation required to generate results
- Accuracy and reliability are guaranteed via robust validation
- Both Natural and Recombinant antigen specificity
- No cross reactivity with other human cytokines tested (listed with kit)
- Standard Calibration to NIBSC



DIACLONE IMMUNOLOGY PRODUCTS
FLEXIBILITY

- Pre-coated plates supplied for easy analysis and increased throughput
- Removable strip plates and multiple standards allow multiple assays from each kit
- Generated results can provide both qualitative and quantitative data when/if required
- Multiple standard dilution buffers available to mimic sample composition (when necessary)
- Kits available in 2 sizes to allow expansion for testing large numbers of replicates

PRODUCT RANGE

With over 20 years experience and extensive expertise we are committed to providing excellence in Monoclonal Antibody and Immunoassay development

Other products available:



Monoclonal Antibodies



ELISpot



Diacclone DIAplex

With the benefits of specific, sensitive, accurate and reliable measurement of cytokine and soluble molecules combined with the diversity of the product range, Diacclone ELISA is the clear choice to...

Fast Track Your Research...

ANALYTICAL PROCEDURE

- 1: A capture antibody highly specific for IFN- γ has been pre-coated to the wells of a 96 well microtitre plate.
- 2: Either standard, control or sample under test are added to wells in duplicate. In addition the anti-IFN- γ biotinylated antibody is also added to each well at this stage. The plate is then incubated to allow simultaneous binding of both the IFN- γ present in the test solutions and the anti-IFN- γ biotinylated antibody.
- 3: Streptavidin-HRP solution is added to all wells and incubated as directed per kit instructions.
- 4: TMB coloured substrate solution reactive with HRP is added to each well and incubated, wrap in foil in the dark as directed per kit instructions.
- 5: Stop solution added to every well and the results immediately read using an appropriate spectro-photometer using 450nm as the primary wavelength (with an optional 620nm reference wavelength). The resultant data can be quantified using the appropriate analysis software.

